

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polyaromatic Hydrocarbons (PAH)				Result 1					
Acenaphthene	S12-De12775	CP	%	101			70-130	Pass	
Acenaphthylene	S12-De12775	CP	%	102			70-130	Pass	
Anthracene	S12-De12775	CP	%	104			70-130	Pass	
Benz(a)anthracene	S12-De12775	CP	%	109			70-130	Pass	
Benzo(a)pyrene	S12-De12775	CP	%	112			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De12775	CP	%	116			70-130	Pass	
Benzo(g,h,i)perylene	S12-De12775	CP	%	107			70-130	Pass	
Chrysene	S12-De12775	CP	%	113			70-130	Pass	
Dibenz(a,h)anthracene	S12-De12775	CP	%	101			70-130	Pass	
Fluoranthene	S12-De12775	CP	%	74			70-130	Pass	
Fluorene	S12-De12775	CP	%	101			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S12-De12775	CP	%	106			70-130	Pass	
Naphthalene	S12-De12775	CP	%	102			70-130	Pass	
Phenanthrene	S12-De12775	CP	%	71			70-130	Pass	
Pyrene	S12-De12775	CP	%	76			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S12-De12781	CP	%	76			70-130	Pass	
Cadmium	S12-De12781	CP	%	86			70-130	Pass	
Chromium	S12-De12781	CP	%	85			70-130	Pass	
Copper	S12-De12781	CP	%	82			70-130	Pass	
Lead	S12-De12781	CP	%	75			70-130	Pass	
Mercury	S12-De12781	CP	%	87			70-130	Pass	
Nickel	S12-De12781	CP	%	86			70-130	Pass	
Zinc	S12-De12781	CP	%	71			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S12-De12795	CP	%	92			70-130	Pass	
TRH C10-C14	S12-De12795	CP	%	104			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S12-De12795	CP	%	94			70-130	Pass	
Toluene	S12-De12795	CP	%	90			70-130	Pass	
Ethylbenzene	S12-De12795	CP	%	89			70-130	Pass	
Total m+p-Xylenes	S12-De12795	CP	%	92			70-130	Pass	
o-Xylene	S12-De12795	CP	%	93			70-130	Pass	
Xylenes(ortho.meta and para)	S12-De12795	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1					
Naphthalene	S12-De12795	CP	%	72			70-130	Pass	
TRH C6-C10	S12-De12795	CP	%	101			70-130	Pass	
TRH >C10-C16	S12-De12795	CP	%	96			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S12-De12804	CP	%	88			70-130	Pass	
Cadmium	S12-De12804	CP	%	88			70-130	Pass	
Chromium	S12-De12804	CP	%	80			70-130	Pass	
Copper	S12-De12804	CP	%	80			70-130	Pass	
Mercury	S12-De12804	CP	%	95			70-130	Pass	
Nickel	S12-De12804	CP	%	72			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1					
Naphthalene	S12-De12809	CP	%	87			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Volatile Organic Compounds (VOC)				Result 1					
1.1-Dichloroethane	S12-De12809	CP	%	100			75-125	Pass	
1.1-Dichloroethene	S12-De12809	CP	%	99			70-130	Pass	
1.1.1-Trichloroethane	S12-De12809	CP	%	100			70-130	Pass	
1.1.1.2-Tetrachloroethane	S12-De12809	CP	%	94			70-130	Pass	
1.1.2-Trichloroethane	S12-De12809	CP	%	101			70-130	Pass	
1.2-Dibromo-3-chloropropane	S12-De12809	CP	%	86			70-130	Pass	
1.2-Dibromoethane	S12-De12809	CP	%	102			70-130	Pass	
1.2-Dichlorobenzene	S12-De12809	CP	%	99			70-130	Pass	
1.2-Dichloroethane	S12-De12809	CP	%	97			70-130	Pass	
1.2-Dichloropropane	S12-De12809	CP	%	97			70-130	Pass	
1.2.3-Trichloropropane	S12-De12809	CP	%	103			70-130	Pass	
1.2.4-Trichlorobenzene	S12-De12809	CP	%	85			70-130	Pass	
1.2.4-Trimethylbenzene	S12-De12809	CP	%	97			70-130	Pass	
1.3-Dichlorobenzene	S12-De12809	CP	%	96			70-130	Pass	
1.3-Dichloropropane	S12-De12809	CP	%	99			70-130	Pass	
1.3.5-Trimethylbenzene	S12-De12809	CP	%	98			70-130	Pass	
1.4-Dichlorobenzene	S12-De12809	CP	%	97			70-130	Pass	
2-Butanone (MEK)	S12-De12809	CP	%	101			70-130	Pass	
2-Chlorotoluene	S12-De12809	CP	%	97			70-130	Pass	
2-Hexanone (MBK)	S12-De12809	CP	%	102			70-130	Pass	
2-Pentanone	S12-De12809	CP	%	97			70-130	Pass	
4-Chlorotoluene	S12-De12809	CP	%	97			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S12-De12809	CP	%	104			70-130	Pass	
Benzene	S12-De12809	CP	%	95			70-130	Pass	
Bromobenzene	S12-De12809	CP	%	100			70-130	Pass	
Bromodichloromethane	S12-De12809	CP	%	100			70-130	Pass	
Bromoform	S12-De12809	CP	%	95			70-130	Pass	
Bromomethane	S12-De12809	CP	%	112			70-130	Pass	
Carbon disulfide	S12-De12809	CP	%	96			70-130	Pass	
Carbon Tetrachloride	S12-De12809	CP	%	100			70-130	Pass	
Chlorobenzene	S12-De12809	CP	%	90			70-130	Pass	
Chloroethane	S12-De12809	CP	%	96			70-130	Pass	
Chloroform	S12-De12809	CP	%	95			70-130	Pass	
Chloromethane	S12-De12809	CP	%	94			70-130	Pass	
cis-1.2-Dichloroethene	S12-De12809	CP	%	98			70-130	Pass	
cis-1.3-Dichloropropene	S12-De12809	CP	%	96			70-130	Pass	
Dibromochloromethane	S12-De12809	CP	%	93			70-130	Pass	
Dichlorodifluoromethane	S12-De12809	CP	%	93			70-130	Pass	
Ethylbenzene	S12-De12809	CP	%	90			70-130	Pass	
Hexachlorobutadiene	S12-De12809	CP	%	93			70-130	Pass	
Isopropyl benzene (Cumene)	S12-De12809	CP	%	91			70-130	Pass	
Methylene Chloride	S12-De12809	CP	%	95			70-130	Pass	
n-Butylbenzene	S12-De12809	CP	%	97			70-130	Pass	
n-Propylbenzene	S12-De12809	CP	%	99			70-130	Pass	
o-Xylene	S12-De12809	CP	%	90			70-130	Pass	
p-Isopropyltoluene	S12-De12809	CP	%	97			70-130	Pass	
sec-Butylbenzene	S12-De12809	CP	%	98			70-130	Pass	
Styrene	S12-De12809	CP	%	100			70-130	Pass	
tert-Butylbenzene	S12-De12809	CP	%	99			70-130	Pass	
Tetrachloroethene	S12-De12809	CP	%	97			70-130	Pass	
Toluene	S12-De12809	CP	%	95			70-130	Pass	
Total m+p-Xylenes	S12-De12809	CP	%	97			70-130	Pass	
trans-1.2-Dichloroethene	S12-De12809	CP	%	98			70-130	Pass	
trans-1.3-Dichloropropene	S12-De12809	CP	%	96			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene	S12-De12809	CP	%	95			70-130	Pass	
Trichlorofluoromethane	S12-De12809	CP	%	100			70-130	Pass	
Vinyl acetate	S12-De12809	CP	%	101			70-130	Pass	
Vinyl chloride	S12-De12809	CP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S12-De12813	CP	%	72			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1					
Naphthalene	S12-De12813	CP	%	81			70-130	Pass	
TRH C6-C10	S12-De12813	CP	%	77			70-130	Pass	
Spike - % Recovery									
Volatile Organic Compounds (VOC)				Result 1					
Benzene	S12-De12813	CP	%	80			70-130	Pass	
Ethylbenzene	S12-De12813	CP	%	73			70-130	Pass	
o-Xylene	S12-De12813	CP	%	74			70-130	Pass	
Toluene	S12-De12813	CP	%	76			70-130	Pass	
Total m+p-Xylenes	S12-De12813	CP	%	73			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S12-De12775	CP	mg/kg	< 10	< 10	<1	30%	Pass	
TRH C10-C14	S12-De12775	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C15-C28	S12-De12775	CP	mg/kg	< 100	< 100	15	30%	Pass	
TRH C29-C36	S12-De12775	CP	mg/kg	< 100	< 100	6.0	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S12-De12775	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S12-De12775	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S12-De12775	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	S12-De12775	CP	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	S12-De12775	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes(ortho.meta and para)	S12-De12775	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Total BTEX	S12-De12775	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
Naphthalene	S12-De12775	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S12-De12775	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S12-De12775	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S12-De12775	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S12-De12775	CP	mg/kg	< 100	< 100	19	30%	Pass	
TRH >C34-C40	S12-De12775	CP	mg/kg	< 100	< 100	17	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S12-De12778	CP	mg/kg	6.1	5.6	8.0	30%	Pass	
Cadmium	S12-De12778	CP	mg/kg	< 0.4	< 0.4	2.0	30%	Pass	
Chromium	S12-De12778	CP	mg/kg	< 5	< 5	14	30%	Pass	
Copper	S12-De12778	CP	mg/kg	26	27	6.0	30%	Pass	
Lead	S12-De12778	CP	mg/kg	36	36	<1	30%	Pass	
Mercury	S12-De12778	CP	mg/kg	0.10	0.11	9.0	30%	Pass	
Nickel	S12-De12778	CP	mg/kg	< 5	5.9	25	30%	Pass	
Zinc	S12-De12778	CP	mg/kg	51	56	9.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S12-De12795	CP	mg/kg	< 10	< 10	<1	30%	Pass	

Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S12-De12795	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	S12-De12795	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	S12-De12795	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Total m+p-Xylenes	S12-De12795	CP	mg/kg	< 1	< 1	<1	30%	Pass
o-Xylene	S12-De12795	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes(ortho.meta and para)	S12-De12795	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass
Total BTEX	S12-De12795	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD		
Naphthalene	S12-De12795	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S12-De12795	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C6-C10 less BTEX (F1)	S12-De12795	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	S12-De12798	CP	mg/kg	< 2	< 2	5.0	30%	Pass
Cadmium	S12-De12798	CP	mg/kg	< 0.4	< 0.4	18	30%	Pass
Chromium	S12-De12798	CP	mg/kg	7.6	< 5	45	30%	Fail Q15
Copper	S12-De12798	CP	mg/kg	6.9	7.7	11	30%	Pass
Lead	S12-De12798	CP	mg/kg	9.3	11	15	30%	Pass
Mercury	S12-De12798	CP	mg/kg	0.11	< 0.05	110	30%	Fail Q15
Nickel	S12-De12798	CP	mg/kg	< 5	< 5	36	30%	Fail Q15
Zinc	S12-De12798	CP	mg/kg	< 5	< 5	27	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD		
Naphthalene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Volatile Organic Compounds (VOC)				Result 1	Result 2	RPD		
1.1-Dichloroethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromo-3-chloropropane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trichlorobenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S12-De12809	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Chlorotoluene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Hexanone (MBK)	S12-De12809	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Pentanone	S12-De12809	CP	mg/kg	< 5	< 5	<1	30%	Pass
4-Chlorotoluene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S12-De12809	CP	mg/kg	< 5	< 5	<1	30%	Pass
Benzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organic Compounds (VOC)				Result 1	Result 2	RPD		
Carbon disulfide	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,2-Dichloroethene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,3-Dichloropropene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorobutadiene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
n-Butylbenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
n-Propylbenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
p-Isopropyltoluene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
sec-Butylbenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
tert-Butylbenzene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Total m+p-Xylenes	S12-De12809	CP	mg/kg	< 1	< 1	<1	30%	Pass
trans-1,2-Dichloroethene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,3-Dichloropropene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl acetate	S12-De12809	CP	mg/kg	< 5	< 5	<1	30%	Pass
Vinyl chloride	S12-De12809	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S12-De12813	CP	mg/kg	630	810	24	30%	Pass
TRH C15-C28	S12-De12813	CP	mg/kg	2700	3500	27	30%	Pass
TRH C29-C36	S12-De12813	CP	mg/kg	220	240	10	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD		
TRH >C10-C16	S12-De12813	CP	mg/kg	1300	1700	22	30%	Pass
TRH >C16-C34	S12-De12813	CP	mg/kg	1900	2500	28	30%	Pass
TRH >C34-C40	S12-De12813	CP	mg/kg	< 100	< 100	17	30%	Pass
Duplicate								
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD		
2-Chloronaphthalene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Chlorophenol	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Methylnaphthalene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Methylphenol (o-Cresol)	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Naphthylamine	S12-De12813	CP	mg/kg	< 0.65	< 0.72	<1	30%	Pass
2-Nitroaniline	S12-De12813	CP	mg/kg	< 1	< 1	<1	30%	Pass
2-Nitrophenol	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	S12-De12813	CP	mg/kg	< 1	< 1	<1	30%	Pass
3-Methylcholanthrene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Aminobiphenyl	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Bromophenyl phenyl ether	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	S12-De12813	CP	mg/kg	< 0.5	< 0.5	28	30%	Pass
4-Chlorophenyl phenyl ether	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD		
4-Nitrophenol	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'-DDD	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'-DDE	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'-DDT	S12-De12813	CP	mg/kg	< 1	< 1	<1	30%	Pass
Acenaphthene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	28	30%	Pass
Acenaphthylene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acetophenone	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aldrin	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aniline	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	25	30%	Pass
Benz(a)anthracene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bis(2-chloroethoxy)methane	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bis(2-ethylhexyl)phthalate	S12-De12813	CP	mg/kg	< 5	< 5	11	30%	Pass
Butyl benzyl phthalate	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorpyrifos	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Coumaphos	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
d-BHC	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Demeton-O	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Demeton-S	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Di-n-butyl phthalate	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Di-n-octyl phthalate	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diazinon	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenzofuran	S12-De12813	CP	mg/kg	0.5	0.7	37	30%	Fail
Dichlorvos	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dieldrin	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diethyl phthalate	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dimethoate	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dimethyl phthalate	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diphenylamine	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Disulfoton	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endosulfan sulphate	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin aldehyde	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin ketone	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethoprop	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fenitrothion	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fensulfothion	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fenthion	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	25	30%	Pass
Fluorene	S12-De12813	CP	mg/kg	1.4	1.9	31	30%	Fail
g-BHC (Lindane)	S12-De12813	CP	mg/kg	1.0	1.6	44	30%	Fail
Heptachlor	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Heptachlor epoxide	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorobenzene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorobutadiene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorocyclopentadiene	S12-De12813	CP	mg/kg	< 2	< 2	<1	30%	Pass
Hexachloroethane	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Malathion	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methoxychlor	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methyl azinphos	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD		
Methyl parathion	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Mevinphos	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Monocrotophos	S12-De12813	CP	mg/kg	< 10	< 10	<1	30%	Pass
N-Nitrosodibutylamine	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
N-Nitrosodipropylamine	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
N-Nitrosopiperidine	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Nitrobenzene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Parathion	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachlorobenzene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachloronitrobenzene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachlorophenol	S12-De12813	CP	mg/kg	< 1	< 1	<1	30%	Pass
Phenanthrene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenol	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phorate	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Profenofos	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Prothiofos	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S12-De12813	CP	mg/kg	< 0.5	< 0.5	29	30%	Pass
Ronnel	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Stirophos	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloronate	S12-De12813	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Comments

Sample Integrity

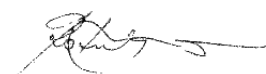
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

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

Authorised By

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



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref: ASET31946/ 35126 / 1 - 6

Your ref: 363351

NATA Accreditation No: 14484

18 December 2012

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

Attn: Dr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification

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

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

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

3. Results : **Sample No. 1. ASET31946 / 35126 / 1. BH123A - 0.5-0.6m - De12775**
Approx dimensions 6.0 cm x 6.0 cm x 2.0 cm
The sample consisted of a mixture of soil, stones, plant matter, fragments of plaster, cement and glass.
No asbestos detected.

Sample No. 2. ASET31946 / 35126 / 2. BH123A - 1.0-1.1m - De12777
Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm
The sample consisted of a mixture of soil, stones, plant matter, fragments of plaster, cement, brick and pieces of glass.
No asbestos detected.

Sample No. 3. ASET31946 / 35126 / 3. BH122A - 0.5-0.6m - De12791
Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm
The sample consisted of a mixture of soil, stones, plant matter, fragments of plaster, cement, brick and pieces of glass.
No asbestos detected.

Sample No. 4. ASET31946 / 35126 / 4. BH122A - 1.0-1.1m - De12792
Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm
The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster and bitumen.
No asbestos detected.

Sample No. 5. ASET31946 / 35126 / 5. BH124 - 0.01-0.11m - De12802
Approx dimensions 6.0 cm x 6.0 cm x 2.0 cm
The sample consisted of a mixture of soil, stones, plant matter, fragments of plaster and glass.
No asbestos detected.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635
PHONE: (02) 99872183 FAX: (02) 99872151 EMAIL: aset@bigpond.net.au WEBSITE: www.Ausset.com.au

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



Sample No. 6. ASET31946 / 35126 / 6. BH124 - 0.5-0.6m - De12804

Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm

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

No asbestos detected.

Analysed and reported by,

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

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

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 3 103794

coffey environments SPECIALISTS IN ENVIRONMENTAL SOCIAL AND SAFETY PERFORMANCE		Consigning Office: Chattswood		Report Results to: Matthew Locke		Mobile: @coffey.com	
Project No: GEOTLCON24308AF		Task No:		Invoices to: Matthew Locke		Email: Matthew Locke	
Project Name: SICEEP		Laboratory: MGT LabMark		Project Manager: Matthew Locke		Phone: @coffey.com	
Sampler's Name: Priga Dass		Project Manager: Matthew Locke		Analysis Request Section			
Special Instructions: TEST TPH/BTEX/PAH AS SUITE B4/METALS AS M8							
Lab No.	Sample ID	Sample Date	Time	Matrix (Soil, etc)	Container Type & Preservative*	T-A-T (specify)	NOTES
	BH124 (5.4-5.5m)	14/12/12		Soil		Standard	Send to Envirolab
	QC27						
	QC27A						
	BH124 (5.5-5.6m)						
	BH124 (5.5-5.6m) A						
	BH108 (0.04-0.14m)						
	BH108A (0.04-0.14m)						
	BH108A (0.5-0.6m)						
	BH108A (0.5-0.6m) A						
	BH108A (1.0-1.1m)						
	BH108A (1.5-1.6m)						
	BH108A (2.0-2.1m)						
	BH108A (2.0-2.1m) A						
	BH108A (2.5-2.6m)						
	BH108A (3.0-3.1m)						
	QC28						
	BH108A (3.5-3.6m)						
	BH108A (3.5-3.6m) A						

RELINQUISHED BY		RECEIVED BY	
Name: Priga Dass	Date: 17/12/12	Name: SUE	Date: 17/12/12
Company: Coffey Environments	Time: 3:35pm	Company: MGT Labmark	Time: 3:35pm
Name:	Date:	Name:	Date:
Company:	Time:	Company:	Time:

Sample Receipt Advice: (Lab Use Only)

☐ All Samples Received in Good Condition

☐ All Documentation is in Proper Order

☐ Samples Received Properly Chilled

Lab. Ref/Batch No. _____

Issue Date: 24/08/2012

Version: 4

Coffey Environments

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3 103796

SPECIALISTS IN ENVIRONMENTAL,
SOCIAL AND SAFETY PERFORMANCE

Consigning Office: Chatswood

Report Results to: Matthew Locke

Invoices to: Matthew Locke

Email: matthew_locke @coffey.com

Email: matthew_locke @coffey.com

Mobile:

Phone:

Project No: AEOTLCON24303AF Task No:

Project Name: SICEEP Laboratory: MGT LabMark

Sampler's Name: Priya Dass Project Manager: Matthew Locke

Special Instructions:

AS PER PAGE 1

Analysis Request Section

Analysis Request Section

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NOTES

Send to EnviroLab

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition

All Documentation is in Proper Order

Samples Received Properly Chilled

Lab. Ref/Batch No.

RECEIVED BY

Name: SUE

Company: MGT Labmark

Name:

Company:

RELINQUISHED BY

Name: Priya Dass

Company: Coffey Environments

Name:

Company:

Date: 17/12/12

Time: 3:35pm

Date:

Time:

Date: 17/12/12

Time: 3:35pm

Date:

Time:

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

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

Version: 4

Coffey Environments

Issue Date: 24/08/2012

Page 2 of 3 103795

coffey environments
SPECIALISTS IN ENVIRONMENTAL

Consigning Office: Chatswood

environments

Report Results to: Matthew Locke
Invoices to: Matthew Locke

Mobile: _____
Phone: _____

Email: matthew_locke @caffey.com

Email: matthew_locke @caffey.com

Project No: GEOT1 CON24303AE Task No:

Laboratory: MGT Lab Mark

Project Manager: Matthew Locke

Sampler's Name: Priva Bass

Special Instructions:

AS PER PAGE 1

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil, etc)	Container Type & Preservative*	T-A-T (specify)	Standards
	BH108A (3.9-4.0m)						
	BH108A (4.5-4.6m)						
	BH108A (4.9-5.0m)						
	BH108A (4.9-5.0m) A						
	BH108A (5.5-5.6m)						
	BH108A (5.9-6.0m)						
	QC29						
	QC29A						
	BH128 (0.28-0.38m)	17/2/2					
	BH128 (0.28-0.38m) A						
	BH128 (0.5-0.6m)						
	BH128 (1.0-1.1m)						
	BH128 (1.5-1.6m)						
	BH128 (1.5-1.6m) A						
	BH128 (2.0-2.1m)						
	BH128 (2.1-2.2m)						
	BH128 (2.5-2.6m)						
	QC30						

QC30

REINQUISHED BY

Name: Priya Dass Date: 17/12/12 Time: 3:35 p.m.

Name: _____ Date: _____

RECEIVED BY

Name: SOE
Company: MGT Labmark

Name: _____
Company: _____

Sample Receipt Advice: (Lab Use Only)

Sample received in Good Condition

All Samples Received in Good Condition

All Documentation Is In Proper Order

Samples Received Properly Chilled

Lab. Ref./Batch No.

Issue Date: 24/08/2012

Version: 4

Coffee Environments

Sample Receipt Advice

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

Contact name: Matthew Locke
Client job number: SICEEP GEOTLCOV24303AF
COC number: 103794-103796
Turn around time: 7 Day
Date/Time received: Dec 19, 2012 12:11 PM
mgt-LabMark reference: **363837**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by mgt-LabMark Sample Receipt : 5.5 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Asbestos conducted as ASET| Samples QC27A, QC29A and QC31A forwarded to Envirolab as requested| Jar: BH125A_(1.0-1.1M) COC: BH125A_(1.15-1.25M). We have labelled as per the COC

Contact notes

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

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

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

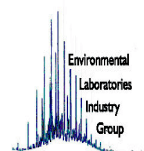
mgt-LabMark Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

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

35Years of Environmental Analysis & Experience – fully Australian Owned



Certificate of Analysis

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



NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: Matthew Locke

Report 363837-S
Client Reference SICEEP GEOTLCOV24303AF
Received Date Dec 19, 2012

Client Sample ID			BH108A_(0.5-0.6M)	BH108A_(0.5-0.6M)_A	BH108A_(1.5-1.6M)	BH108A_(2.5-2.6M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16232	S12-De16233	S12-De16235	S12-De16238
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	190	120	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	190	120	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	73	78	72	78
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	140	< 100	110	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	< 1	1.2
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH108A_(0.5-0.6M)	BH108A_(0.5-0.6M)_A	BH108A_(1.5-1.6M)	BH108A_(2.5-2.6M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16232	S12-De16233	S12-De16235	S12-De16238
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Total PAH	1	mg/kg	< 1	< 1	< 1	6.4
2-Fluorobiphenyl (surr.)	1	%	112	108	101	101
p-Terphenyl-d14 (surr.)	1	%	94	90	84	87
Heavy Metals						
Arsenic	2	mg/kg	3.8	5.1	6.5	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	11	12	14	-
Copper	5	mg/kg	12	15	24	-
Lead	5	mg/kg	24	28	28	-
Mercury	0.05	mg/kg	< 0.05	0.07	0.06	-
Nickel	5	mg/kg	11	13	16	-
Zinc	5	mg/kg	45	53	100	-
% Moisture	0.1	%	22	9.2	9.4	10
Asbestos			see attached	-	-	-

Client Sample ID			BH108A_(3.5-3.6M)	BH108A_(3.5-3.6M)_A	BH108A_(4.5-4.6M)	BH128_(0.28-0.38M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16241	S12-De16242	S12-De16244	S12-De16250
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	110
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	110
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	70	72	70	70
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50

Client Sample ID			BH108A_(3.5-3.6M)	BH108A_(3.5-3.6M)_A	BH108A_(4.5-4.6M)	BH128_(0.28-0.38M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16241	S12-De16242	S12-De16244	S12-De16250
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.7
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.8
Benz(a)anthracene	0.5	mg/kg	1.0	0.7	< 0.5	4.4
Benzo(a)pyrene	0.5	mg/kg	1.0	0.7	< 0.5	2.9
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	1.8	1.3	< 1	5.0
Benzo(g,h,i)perylene	0.5	mg/kg	0.7	< 0.5	< 0.5	1.6
Chrysene	0.5	mg/kg	1.0	0.7	< 0.5	3.0
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.9	1.3	< 0.5	8.8
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.7
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.6	< 0.5	< 0.5	1.6
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.1	0.8	< 0.5	11
Pyrene	0.5	mg/kg	1.8	1.3	< 0.5	7.4
Total PAH	1	mg/kg	11	6.8	< 1	53
2-Fluorobiphenyl (surr.)	1	%	86	94	98	108
p-Terphenyl-d14 (surr.)	1	%	72	78	89	102
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	5.2
Cadmium	0.4	mg/kg	-	-	-	< 0.4
Chromium	5	mg/kg	-	-	-	12
Copper	5	mg/kg	-	-	-	27
Lead	5	mg/kg	-	-	-	96
Mercury	0.05	mg/kg	-	-	-	0.27
Nickel	5	mg/kg	-	-	-	5.8
Zinc	5	mg/kg	-	-	-	94
% Moisture	0.1	%	11	11	15	17
Asbestos			-	-	-	see attached

Client Sample ID			BH128_(0.28-0.38M)_A	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)	BH128_(1.5-1.6M)_A
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16251	S12-De16252	S12-De16254	S12-De16255
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			BH128_(0.28-0.38M)_A	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)	BH128_(1.5-1.6M)_A
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16251	S12-De16252	S12-De16254	S12-De16255
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	76	73	102	73
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.6	1.2	1.2	0.7
Benzo(a)pyrene	0.5	mg/kg	0.7	1.2	1.4	0.9
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	1.1	2.1	2.3	1.6
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	0.9	1.1	0.7
Chrysene	0.5	mg/kg	0.6	1.2	1.2	0.8
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.2	2.0	2.0	1.2
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	0.7	0.9	0.6
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.7	1.2	0.8	< 0.5
Pyrene	0.5	mg/kg	1.2	2.0	2.0	1.3
Total PAH	1	mg/kg	6.1	13	13	7.8
2-Fluorobiphenyl (surr.)	1	%	83	93	115	97
p-Terphenyl-d14 (surr.)	1	%	75	85	97	87
Heavy Metals						
Arsenic	2	mg/kg	3.4	-	4.5	7.4
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	12	-	23	21
Copper	5	mg/kg	27	-	24	36
Lead	5	mg/kg	89	-	200	430
Mercury	0.05	mg/kg	0.18	-	1.5	1.2
Nickel	5	mg/kg	5.6	-	8.2	12
Zinc	5	mg/kg	78	-	220	410
% Moisture	0.1	%	21	15	16	18

Client Sample ID			BH128_(0.28-0.38M)_A	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)	BH128_(1.5-1.6M)_A
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16251	S12-De16252	S12-De16254	S12-De16255
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Asbestos			-	see attached	-	-

Client Sample ID			BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	QC30	BH128_(2.9-3.0M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16256	S12-De16258	S12-De16259	S12-De16260
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	75	87	70	94
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	QC30	BH128_(2.9-3.0M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16256	S12-De16258	S12-De16259	S12-De16260
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH	1	mg/kg	< 1	< 1	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	111	92	91	114
p-Terphenyl-d14 (surr.)	1	%	124	84	82	119
Semivolatile Organic Compounds (SVOC)						
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Methylphenol (o-Cresol)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Naphthylamine	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Nitroaniline	1	mg/kg	< 1	-	-	< 1
2-Nitrophenol	0.5	mg/kg	< 0.5	-	-	< 0.5
3&4-Methylphenol (m&p-Cresol)	1	mg/kg	< 1	-	-	< 1
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chloro-3-methylphenol	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Nitrophenol	0.5	mg/kg	< 0.5	-	-	1.8
4,4'-DDD	0.5	mg/kg	< 0.5	-	-	< 0.5
4,4'-DDE	0.5	mg/kg	< 0.5	-	-	< 0.5
4,4'-DDT	1	mg/kg	< 1	-	-	< 1
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acetophenone	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin	0.5	mg/kg	< 0.5	-	-	< 0.5
Aniline	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bis(2-ethylhexyl)phthalate	5	mg/kg	< 5	-	-	< 5
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	-	< 0.5
Chlorpyrifos	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Coumaphos	0.5	mg/kg	< 0.5	-	-	< 0.5
d-BHC	0.5	mg/kg	< 0.5	-	-	< 0.5
Demeton-O	0.5	mg/kg	< 0.5	-	-	< 0.5
Demeton-S	0.5	mg/kg	< 0.5	-	-	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	-	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	-	< 0.5
Diazinon	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenzofuran	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorvos	0.5	mg/kg	< 0.5	-	-	< 0.5
Dieldrin	0.5	mg/kg	< 0.5	-	-	< 0.5
Diethyl phthalate	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	QC30	BH128_(2.9-3.0M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16256	S12-De16258	S12-De16259	S12-De16260
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
Dimethoate	0.5	mg/kg	< 0.5	-	-	< 0.5
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	-	< 0.5
Diphenylamine	0.5	mg/kg	< 0.5	-	-	< 0.5
Disulfoton	0.5	mg/kg	< 0.5	-	-	< 0.5
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	-	< 0.5
Endrin	0.5	mg/kg	< 0.5	-	-	< 0.5
Endrin aldehyde	0.5	mg/kg	< 0.5	-	-	< 0.5
Endrin ketone	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethoprop	0.5	mg/kg	< 0.5	-	-	< 0.5
Fenitrothion	0.5	mg/kg	< 0.5	-	-	< 0.5
Fensulfothion	0.5	mg/kg	< 0.5	-	-	< 0.5
Fenthion	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
g-BHC (Lindane)	0.5	mg/kg	< 0.5	-	-	< 0.5
Heptachlor	0.5	mg/kg	< 0.5	-	-	< 0.5
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	-	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	< 0.5
Hexachlorocyclopentadiene	1	mg/kg	< 1	-	-	< 1
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Malathion	0.5	mg/kg	< 0.5	-	-	< 0.5
Methoxychlor	0.5	mg/kg	< 0.5	-	-	< 0.5
Methyl azinphos	0.5	mg/kg	< 0.5	-	-	< 0.5
Methyl parathion	0.5	mg/kg	< 0.5	-	-	< 0.5
Mevinphos	0.5	mg/kg	< 0.5	-	-	< 0.5
Monocrotophos	10	mg/kg	< 10	-	-	< 10
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	-	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	-	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Nitrobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Parathion	0.5	mg/kg	< 0.5	-	-	< 0.5
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pentachlorophenol	1	mg/kg	< 1	-	-	< 1
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenol	0.5	mg/kg	< 0.5	-	-	< 0.5
Phorate	0.5	mg/kg	< 0.5	-	-	< 0.5
Profenofos	0.5	mg/kg	< 0.5	-	-	< 0.5
Prothiofos	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Ronnel	0.5	mg/kg	< 0.5	-	-	< 0.5
Stirophos	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichloronate	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenol-d6 (surr.)	1	%	99	-	-	97
Nitrobenzene-d5 (surr.)	1	%	105	-	-	105
p-Terphenyl-d14 (surr.)	1	%	124	-	-	119

Client Sample ID			BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	QC30	BH128_(2.9-3.0M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16256	S12-De16258	S12-De16259	S12-De16260
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
2-Fluorobiphenyl (surr.)	1	%	111	-	-	114
Heavy Metals						
Arsenic	2	mg/kg	3.5	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	11	-	-	-
Copper	5	mg/kg	13	-	-	-
Lead	5	mg/kg	93	-	-	-
Mercury	0.05	mg/kg	0.54	-	-	-
Nickel	5	mg/kg	< 5	-	-	-
Zinc	5	mg/kg	130	-	-	-
% Moisture	0.1	%	17	32	36	32

Client Sample ID			BH125A_(0.5-0.6M)	BH125A_(0.5-0.6M)_A	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16263	S12-De16264	S12-De16266	S12-De16267
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	86	70	76	71
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH125A_(0.5-0.6M)	BH125A_(0.5-0.6M)_A	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16263	S12-De16264	S12-De16266	S12-De16267
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH	1	mg/kg	< 1	< 1	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	99	89	100	103
p-Terphenyl-d14 (surr.)	1	%	89	81	92	94
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	16	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	< 5	-	15	-
Copper	5	mg/kg	5.8	-	19	-
Lead	5	mg/kg	13	-	57	-
Mercury	0.05	mg/kg	< 0.05	-	0.62	-
Nickel	5	mg/kg	< 5	-	9.1	-
Zinc	5	mg/kg	12	-	220	-
% Moisture	0.1	%	7.8	6.8	18	15
Asbestos			see attached	-	see attached	-

Client Sample ID			BH125A_(2.0-2.1M)_A	BH125A_(3.0-3.1M)	QC31	BH110A_(0.5-0.6M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16268	S12-De16270	S12-De16271	S12-De16276
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH125A_(2.0-2.1M)_A	BH125A_(3.0-3.1M)	QC31	BH110A_(0.5-0.6M)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De16268	S12-De16270	S12-De16271	S12-De16276
Date Sampled			Dec 17, 2012	Dec 17, 2012	Dec 17, 2012	Dec 17, 2012
Test/Reference	LOR	Unit				
BTEX						
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	73	75	71	70
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH	1	mg/kg	< 1	< 1	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	103	95	101	97
p-Terphenyl-d14 (surr.)	1	%	94	88	87	82
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	2.6
Cadmium	0.4	mg/kg	-	-	-	< 0.4
Chromium	5	mg/kg	-	-	-	9.2
Copper	5	mg/kg	-	-	-	12
Lead	5	mg/kg	-	-	-	7.9
Mercury	0.05	mg/kg	-	-	-	< 0.05
Nickel	5	mg/kg	-	-	-	16
Zinc	5	mg/kg	-	-	-	23
% Moisture	0.1	%	15	20	17	8.2
Asbestos			-	-	-	see attached

Sample History

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

Description	Testing Site	Extracted	Holding Time
mgt-LabMark Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 20, 2012	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Dec 20, 2012	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *	Sydney	Dec 20, 2012	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	Dec 20, 2012	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Semivolatile Organic Compounds (SVOC)	Sydney	Dec 20, 2012	14 Day
- Method: E017 Semivolatile Organic Compounds (SVOC)			
Metals M8	Sydney	Dec 20, 2012	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Dec 20, 2012	28 Day
- Method: E005 Moisture Content			

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

Client Job No.: SICEEP GEOTLCOV24303AF

Order No.:
Report #: 363837
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Dec 19, 2012 12:11 PM
Due: Jan 3, 2013
Priority: 6 Day
Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
BH124_(5.4-5.5M)	Dec 14, 2012		Soil	S12-De16226			X			
QC27	Dec 14, 2012		Soil	S12-De16227			X			
BH124_(5.5-5.6M)	Dec 14, 2012		Soil	S12-De16228			X			
BH124_(5.5-5.6M)_A	Dec 14, 2012		Soil	S12-De16229			X			
BH108_(0.04-0.14M)	Dec 14, 2012		Soil	S12-De16230			X			
BH108A_(0.04-0.14M)	Dec 14, 2012		Soil	S12-De16231			X			

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH108A_(0.5-0.6M)	Dec 14, 2012		Soil	S12-De16232	X	X		X	X	
BH108A_(0.5-0.6M)_A	Dec 14, 2012		Soil	S12-De16233	X			X	X	
BH108A_(1.0-1.1M)	Dec 14, 2012		Soil	S12-De16234			X			
BH108A_(1.5-1.6M)	Dec 14, 2012		Soil	S12-De16235	X			X	X	
BH108A_(2.0-2.1M)	Dec 14, 2012		Soil	S12-De16236			X			
BH108A_(2.0-2.1M)_A	Dec 14, 2012		Soil	S12-De16237			X			
BH108A_(2.5-2.6M)	Dec 14, 2012		Soil	S12-De16238	X				X	

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

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH108A_(3.0-3.1M)	Dec 14, 2012		Soil	S12-De16239			X			
QC28	Dec 14, 2012		Soil	S12-De16240			X			
BH108A_(3.5-3.6M)	Dec 14, 2012		Soil	S12-De16241	X				X	
BH108A_(3.5-3.6M)_A	Dec 14, 2012		Soil	S12-De16242	X				X	
BH108A_(3.9-4.0M)	Dec 14, 2012		Soil	S12-De16243			X			
BH108A_(4.5-4.6M)	Dec 14, 2012		Soil	S12-De16244	X				X	
BH108A_(4.9-5.0M)	Dec 14, 2012		Soil	S12-De16245			X			

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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Priority: 6 Day
Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH108A_(4.9-5.0M)_A	Dec 14, 2012		Soil	S12-De16246			X			
BH108A_(5.5-5.6M)	Dec 14, 2012		Soil	S12-De16247			X			
BH108A_(5.9-6.0M)	Dec 14, 2012		Soil	S12-De16248			X			
QC29	Dec 14, 2012		Soil	S12-De16249			X			
BH128_(0.28-0.38M)	Dec 17, 2012		Soil	S12-De16250	X	X		X	X	
BH128_(0.28-0.38M)_A	Dec 17, 2012		Soil	S12-De16251	X			X	X	
BH128_(0.5-0.6M)	Dec 17, 2012		Soil	S12-De16252	X	X			X	

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

Client Job No.: SICEEP GEOTLCOV24303AF

Order No.:
Report #: 363837
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Dec 19, 2012 12:11 PM
Due: Jan 3, 2013
Priority: 6 Day
Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH128_(1.0-1.1M)	Dec 17, 2012		Soil	S12-De16253			X			
BH128_(1.5-1.6M)	Dec 17, 2012		Soil	S12-De16254	X			X	X	
BH128_(1.5-1.6M) A	Dec 17, 2012		Soil	S12-De16255	X			X	X	
BH128_(2.0-2.1M)	Dec 17, 2012		Soil	S12-De16256	X			X	X	X
BH128_(2.1-2.2M)	Dec 17, 2012		Soil	S12-De16257			X			
BH128_(2.5-2.6M)	Dec 17, 2012		Soil	S12-De16258	X				X	
QC30	Dec 17, 2012		Soil	S12-De16259	X				X	

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Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH128_(2.9-3.0M)	Dec 17, 2012		Soil	S12-De16260	X				X	X
BH128_(3.4-3.5M)	Dec 17, 2012		Soil	S12-De16261			X			
BH125A_(0.1-0.2M)	Dec 17, 2012		Soil	S12-De16262			X			
BH125A_(0.5-0.6M)	Dec 17, 2012		Soil	S12-De16263	X	X		X	X	
BH125A_(0.5-0.6M)_A	Dec 17, 2012		Soil	S12-De16264	X				X	
BH125A_(1.15-1.25M)	Dec 17, 2012		Soil	S12-De16265			X			
BH125A_(1.4-1.5M)	Dec 17, 2012		Soil	S12-De16266	X	X		X	X	

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH125A_(2.0-2.1M)	Dec 17, 2012		Soil	S12-De16267	X				X	
BH125A_(2.0-2.1M)_A	Dec 17, 2012		Soil	S12-De16268	X				X	
BH125A_(2.5-2.7M)	Dec 17, 2012		Soil	S12-De16269			X			
BH125A_(3.0-3.1M)	Dec 17, 2012		Soil	S12-De16270	X				X	
QC31	Dec 17, 2012		Soil	S12-De16271	X				X	
BH125A_(3.2-3.4M)	Dec 17, 2012		Soil	S12-De16272			X			
BH125A_(3.9-4.0M)	Dec 17, 2012		Soil	S12-De16273			X			

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH110A_(0.04-0.14M)	Dec 17, 2012		Soil	S12-De16274			X			
BH110A_(0.04-0.14M)_A	Dec 17, 2012		Soil	S12-De16275			X			
BH110A_(0.5-0.6M)	Dec 17, 2012		Soil	S12-De16276	X	X		X	X	

mgt-LabMark Internal Quality Control Review

General

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

Holding Times

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

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

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

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

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

UNITS

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Units

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

TERMS

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

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

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

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

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

QC DATA GENERAL COMMENTS

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

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

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

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachloronitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Phorate	mg/kg	< 0.5			0.5	Pass	
Profenofos	mg/kg	< 0.5			0.5	Pass	
Prothiofos	mg/kg	< 0.5			0.5	Pass	
Ronnel	mg/kg	< 0.5			0.5	Pass	
Stirophos	mg/kg	< 0.5			0.5	Pass	
Trichloronate	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	94			70-130	Pass	
TRH C10-C14	%	98			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	96			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
Total m+p-Xylenes	%	100			70-130	Pass	
o-Xylene	%	99			70-130	Pass	
Xylenes(ortho.meta and para)	%	100			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	%	89			70-130	Pass	
TRH C6-C10	%	85			70-130	Pass	
TRH >C10-C16	%	96			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	108			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	108			70-130	Pass	
Benz(a)anthracene	%	89			70-130	Pass	
Benzo(a)pyrene	%	99			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	101			70-130	Pass	
Benzo(g,h,i)perylene	%	95			70-130	Pass	
Chrysene	%	105			70-130	Pass	
Dibenz(a,h)anthracene	%	95			70-130	Pass	
Fluoranthene	%	104			70-130	Pass	
Fluorene	%	109			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	101			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	103			70-130	Pass	

Test			Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Pyrene			%	108		70-130	Pass	
LCS - % Recovery								
Semivolatile Organic Compounds (SVOC) E017 Semivolatile Organic Compounds (SVOC)								
2-Chlorophenol			%	99		70-130	Pass	
4-Chloro-3-methylphenol			%	90		70-130	Pass	
4-Nitrophenol			%	97		70-130	Pass	
Bis(2-ethylhexyl)phthalate			%	87		70-130	Pass	
Butyl benzyl phthalate			%	72		70-130	Pass	
Chlorpyrifos			%	97		70-130	Pass	
Coumaphos			%	77		70-130	Pass	
Demeton-O			%	97		70-130	Pass	
Demeton-S			%	92		70-130	Pass	
Di-n-butyl phthalate			%	91		70-130	Pass	
Di-n-octyl phthalate			%	81		70-130	Pass	
Diazinon			%	93		70-130	Pass	
Dichlorvos			%	103		70-130	Pass	
Diethyl phthalate			%	92		70-130	Pass	
Dimethoate			%	87		70-130	Pass	
Dimethyl phthalate			%	89		70-130	Pass	
Disulfoton			%	93		70-130	Pass	
Ethoprop			%	92		70-130	Pass	
Fenitrothion			%	86		70-130	Pass	
Fensulfothion			%	99		70-130	Pass	
Fenthion			%	96		70-130	Pass	
Malathion			%	96		70-130	Pass	
Methyl azinphos			%	90		70-130	Pass	
Methyl parathion			%	89		70-130	Pass	
Mevinphos			%	91		70-130	Pass	
Monocrotophos			%	88		70-130	Pass	
N-Nitrosodipropylamine			%	91		70-130	Pass	
Parathion			%	97		70-130	Pass	
Pentachlorophenol			%	75		70-130	Pass	
Phenol			%	102		70-130	Pass	
Phorate			%	92		70-130	Pass	
Profenofos			%	94		70-130	Pass	
Prothiofos			%	94		70-130	Pass	
Ronnel			%	100		70-130	Pass	
Stirophos			%	90		70-130	Pass	
Trichloronate			%	97		70-130	Pass	
LCS - % Recovery								
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury								
Arsenic			%	96		70-130	Pass	
Cadmium			%	93		70-130	Pass	
Chromium			%	99		70-130	Pass	
Copper			%	89		70-130	Pass	
Lead			%	100		70-130	Pass	
Mercury			%	126		70-130	Pass	
Nickel			%	99		70-130	Pass	
Zinc			%	108		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S12-De16232	CP	%	80		70-130	Pass	
TRH C10-C14	S12-De16232	CP	%	97		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
BTEX				Result 1				
Benzene	S12-De16232	CP	%	86		70-130	Pass	
Toluene	S12-De16232	CP	%	82		70-130	Pass	
Ethylbenzene	S12-De16232	CP	%	83		70-130	Pass	
Total m+p-Xylenes	S12-De16232	CP	%	91		70-130	Pass	
o-Xylene	S12-De16232	CP	%	91		70-130	Pass	
Xylenes(ortho.meta and para)	S12-De16232	CP	%	91		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1				
Naphthalene	S12-De16232	CP	%	75		70-130	Pass	
TRH C6-C10	S12-De16232	CP	%	75		70-130	Pass	
TRH >C10-C16	S12-De16232	CP	%	100		70-130	Pass	
Spike - % Recovery								
Polyaromatic Hydrocarbons (PAH)				Result 1				
Acenaphthene	S12-De16232	CP	%	109		70-130	Pass	
Acenaphthylene	S12-De16232	CP	%	111		70-130	Pass	
Anthracene	S12-De16232	CP	%	106		70-130	Pass	
Benz(a)anthracene	S12-De16232	CP	%	113		70-130	Pass	
Benzo(a)pyrene	S12-De16232	CP	%	103		70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De16232	CP	%	109		70-130	Pass	
Benzo(g,h,i)perylene	S12-De16232	CP	%	113		70-130	Pass	
Chrysene	S12-De16232	CP	%	110		70-130	Pass	
Dibenz(a,h)anthracene	S12-De16232	CP	%	112		70-130	Pass	
Fluoranthene	S12-De16232	CP	%	102		70-130	Pass	
Fluorene	S12-De16232	CP	%	110		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S12-De16232	CP	%	117		70-130	Pass	
Naphthalene	S12-De16232	CP	%	109		70-130	Pass	
Phenanthrene	S12-De16232	CP	%	100		70-130	Pass	
Pyrene	S12-De16232	CP	%	106		70-130	Pass	
Spike - % Recovery								
Metals M8				Result 1				
Arsenic	S12-De16232	CP	%	96		70-130	Pass	
Cadmium	S12-De16232	CP	%	83		70-130	Pass	
Chromium	S12-De16232	CP	%	90		70-130	Pass	
Copper	S12-De16232	CP	%	98		70-130	Pass	
Lead	S12-De16232	CP	%	74		70-130	Pass	
Mercury	S12-De16232	CP	%	99		70-130	Pass	
Nickel	S12-De16232	CP	%	93		70-130	Pass	
Zinc	S12-De16232	CP	%	104		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S12-De16254	CP	%	75		70-130	Pass	
TRH C10-C14	S12-De16254	CP	%	83		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S12-De16254	CP	%	87		70-130	Pass	
Toluene	S12-De16254	CP	%	87		70-130	Pass	
Ethylbenzene	S12-De16254	CP	%	87		70-130	Pass	
Total m+p-Xylenes	S12-De16254	CP	%	87		70-130	Pass	
o-Xylene	S12-De16254	CP	%	86		70-130	Pass	
Xylenes(ortho.meta and para)	S12-De16254	CP	%	87		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1				
Naphthalene	S12-De16254	CP	%	74		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	S12-De16254	CP	%	83		70-130	Pass	
TRH >C10-C16	S12-De16254	CP	%	76		70-130	Pass	
Spike - % Recovery								
Semivolatile Organic Compounds (SVOC)				Result 1				
2-Chlorophenol	S12-De15156	NCP	%	93		70-130	Pass	
4-Chloro-3-methylphenol	S12-De15156	NCP	%	89		70-130	Pass	
4-Nitrophenol	S12-De15156	NCP	%	70		70-130	Pass	
N-Nitrosodipropylamine	S12-De15156	NCP	%	71		70-130	Pass	
Pentachlorophenol	S12-De15156	NCP	%	72		70-130	Pass	
Phenol	S12-De15156	NCP	%	95		70-130	Pass	
Spike - % Recovery								
Metals M8				Result 1				
Arsenic	S12-De16263	CP	%	96		70-130	Pass	
Cadmium	S12-De16263	CP	%	89		70-130	Pass	
Chromium	S12-De16263	CP	%	110		70-130	Pass	
Copper	S12-De16263	CP	%	81		70-130	Pass	
Lead	S12-De16263	CP	%	103		70-130	Pass	
Mercury	S12-De16263	CP	%	84		70-130	Pass	
Nickel	S12-De16263	CP	%	89		70-130	Pass	
Zinc	S12-De16263	CP	%	101		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S12-De16268	CP	%	80		70-130	Pass	
TRH C10-C14	S12-De16268	CP	%	84		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S12-De16268	CP	%	84		70-130	Pass	
Toluene	S12-De16268	CP	%	84		70-130	Pass	
Ethylbenzene	S12-De16268	CP	%	86		70-130	Pass	
Total m+p-Xylenes	S12-De16268	CP	%	95		70-130	Pass	
o-Xylene	S12-De16268	CP	%	94		70-130	Pass	
Xylenes(ortho.meta and para)	S12-De16268	CP	%	95		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1				
Naphthalene	S12-De16268	CP	%	95		70-130	Pass	
TRH C6-C10	S12-De16268	CP	%	73		70-130	Pass	
TRH >C10-C16	S12-De16268	CP	%	83		70-130	Pass	
Spike - % Recovery								
Polyaromatic Hydrocarbons (PAH)				Result 1				
Acenaphthene	S12-De16268	CP	%	114		70-130	Pass	
Acenaphthylene	S12-De16268	CP	%	114		70-130	Pass	
Anthracene	S12-De16268	CP	%	106		70-130	Pass	
Benz(a)anthracene	S12-De16268	CP	%	99		70-130	Pass	
Benzo(a)pyrene	S12-De16268	CP	%	110		70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De16268	CP	%	115		70-130	Pass	
Benzo(g,h,i)perylene	S12-De16268	CP	%	119		70-130	Pass	
Chrysene	S12-De16268	CP	%	114		70-130	Pass	
Dibenz(a,h)anthracene	S12-De16268	CP	%	119		70-130	Pass	
Fluoranthene	S12-De16268	CP	%	104		70-130	Pass	
Fluorene	S12-De16268	CP	%	113		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S12-De16268	CP	%	124		70-130	Pass	
Naphthalene	S12-De16268	CP	%	115		70-130	Pass	
Phenanthrene	S12-De16268	CP	%	103		70-130	Pass	
Pyrene	S12-De16268	CP	%	109		70-130	Pass	
Test	Lab Sample ID	QA	Units	Result 1		Acceptance	Pass	Qualifying

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S12-De16232	CP	mg/kg	< 10	< 10	5.0	30%	Pass	
TRH C10-C14	S12-De16232	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C15-C28	S12-De16232	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH C29-C36	S12-De16232	CP	mg/kg	190	170	15	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	S12-De16232	CP	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes(ortho.meta and para)	S12-De16232	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Total BTEX	S12-De16232	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
Naphthalene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S12-De16232	CP	mg/kg	< 20	< 20	15	30%	Pass	
TRH C6-C10 less BTEX (F1)	S12-De16232	CP	mg/kg	< 20	< 20	15	30%	Pass	
TRH >C10-C16	S12-De16232	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S12-De16232	CP	mg/kg	< 100	< 100	14	30%	Pass	
TRH >C34-C40	S12-De16232	CP	mg/kg	140	130	13	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De16232	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Benzo(g,h,i)perylene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S12-De16232	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S12-De16254	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C15-C28	S12-De16254	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH C29-C36	S12-De16254	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
TRH >C10-C16	S12-De16254	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S12-De16254	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S12-De16254	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD			
Chlorpyrifos	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Coumaphos	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Demeton-O	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD		
Demeton-S	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diazinon	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorvos	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dimethoate	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Disulfoton	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethoprop	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fenitrothion	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fensulfothion	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fenthion	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Malathion	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methyl azinphos	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methyl parathion	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Mevinphos	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Monocrotophos	S12-De15156	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Parathion	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phorate	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Profenofos	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Prothiofos	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ronnel	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Stirophos	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloronate	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	S12-De16256	CP	mg/kg	3.5	4.4	23	30%	Pass
Cadmium	S12-De16256	CP	mg/kg	< 0.4	< 0.4	200	30%	Fail Q15
Chromium	S12-De16256	CP	mg/kg	11	8.6	26	30%	Pass
Copper	S12-De16256	CP	mg/kg	13	9.2	34	30%	Fail Q16
Lead	S12-De16256	CP	mg/kg	93	95	2.0	30%	Pass
Mercury	S12-De16256	CP	mg/kg	0.54	0.30	58	30%	Fail Q15
Nickel	S12-De16256	CP	mg/kg	< 5	< 5	78	30%	Fail Q15
Zinc	S12-De16256	CP	mg/kg	130	140	8.0	30%	Pass
Duplicate								
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD		
2-Chloronaphthalene	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Chlorophenol	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Methylnaphthalene	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Methylphenol (o-Cresol)	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Naphthylamine	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Nitroaniline	S12-De15156	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2-Nitrophenol	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	S12-De15156	NCP	mg/kg	< 1	< 1	<1	30%	Pass
3-Methylcholanthrene	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Aminobiphenyl	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Bromophenyl phenyl ether	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorophenyl phenyl ether	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Nitrophenol	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'-DDD	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'-DDE	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'-DDT	S12-De15156	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Acetophenone	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aldrin	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aniline	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bis(2-chloroethoxy)methane	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bis(2-ethylhexyl)phthalate	S12-De15156	NCP	mg/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD		
Butyl benzyl phthalate	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
d-BHC	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Di-n-butyl phthalate	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Di-n-octyl phthalate	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenzofuran	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dieldrin	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diethyl phthalate	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dimethyl phthalate	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diphenylamine	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endosulfan sulphate	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin aldehyde	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin ketone	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
g-BHC (Lindane)	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Heptachlor	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Heptachlor epoxide	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorobenzene	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorobutadiene	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorocyclopentadiene	S12-De15156	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Hexachloroethane	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methoxychlor	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
N-Nitrosodibutylamine	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
N-Nitrosodipropylamine	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
N-Nitrosopiperidine	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Nitrobenzene	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachlorobenzene	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachloronitrobenzene	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachlorophenol	S12-De15156	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Phenol	S12-De15156	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S12-De16268	CP	mg/kg	< 10	< 10	<1	30%	Pass
TRH C10-C14	S12-De16268	CP	mg/kg	< 50	< 50	18	30%	Pass
TRH C15-C28	S12-De16268	CP	mg/kg	< 100	< 100	14	30%	Pass
TRH C29-C36	S12-De16268	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Total m+p-Xylenes	S12-De16268	CP	mg/kg	< 1	< 1	<1	30%	Pass
o-Xylene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes(ortho.meta and para)	S12-De16268	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass
Total BTEX	S12-De16268	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD		
Naphthalene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S12-De16268	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C6-C10 less BTEX (F1)	S12-De16268	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	S12-De16268	CP	mg/kg	< 50	< 50	18	30%	Pass
TRH >C16-C34	S12-De16268	CP	mg/kg	< 100	< 100	14	30%	Pass
TRH >C34-C40	S12-De16268	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD		
Acenaphthene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD		
Acenaphthylene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De16268	CP	mg/kg	< 1	< 1	<1	30%	Pass
Benzo(g,h,i)perylene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S12-De16268	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Comments

Please note: Asbestos analysed by ASET (Job : ASET32003/35183/1-6) NATA Accreditation : 14484

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details
Q16	The surrogate was not added. Insufficient sample remains to perform re-analysis. Acceptance criteria were met for all other QC.

Authorised By

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



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET32003/ 35183 / 1 - 6

Your ref :363837

NATA Accreditation No: 14484

21 December 2012

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

Attn: Ms Leanne Knowles

Dear Leanne

Asbestos Identification

This report presents the results of six samples, forwarded by MGT- Labmark Environmental Pty Ltd on 21 December 2012, for analysis for asbestos.

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

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

3. Results : **Sample No. 1. ASET32003 / 35183 / 1. 363837 - BH108A - 0.5 - 0.6m - De16232.**
Approx dimensions 7.0 cm x 7.0 cm x 2.25 cm
The sample consisted of a mixture of sandy soil, stones, plant matter and fragments of plaster and brick.
No asbestos detected.

Sample No. 2. ASET32003 / 35183 / 2. 363837 - BH128 - 0.28 - 0.38m - De16250.
Approx dimensions 7.0 cm x 7.0 cm x 2.25 cm
The sample consisted of a mixture of clayish soil, stones, plant matter and fragments of plaster, sandstone and brick.
No asbestos detected.

Sample No. 3. ASET32003 / 35183 / 3. 363837 - BH128 - 0.5 - 0.6m - De16252.
Approx dimensions 7.0 cm x 7.0 cm x 1.25 cm
The sample consisted of a mixture of clayish soil, stones, plant matter and fragments of plaster, sandstone, bitumin like material and brick.
No asbestos detected.

Sample No. 4. ASET32003 / 35183 / 4. 363837 - BH125A - 0.5 - 0.6m - De16263.
Approx dimensions 6.0 cm x 6.0 cm x 2.0 cm
The sample consisted of a mixture of clayish sandy soil, stones and fragments of plaster and sandstone.
No asbestos detected.

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

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

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ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING



Sample No. 5. ASET32003 / 35183 / 5. 363837 - BH125A - 1.4 - 1.5m - De16266.

Approx dimensions 7.0 cm x 7.0 cm x 1.25 cm

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

No asbestos detected.

Sample No. 6. ASET32003 / 35183 / 6. 363837 - BH110A - 0.5 - 0.6m - De16276.

Approx dimensions 6.0 cm x 6.0 cm x 1.2 cm

The sample consisted of a mixture of sandy soil, stones, fragments of plaster, brick and glass.

No asbestos detected.

Analysed and reported by,

A handwritten signature in black ink, appearing to read "Mahen De Silva", is written over a horizontal line.

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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coffey environments
SPECIALISTS IN ENVIRONMENTAL
SOCIAL AND SAFETY PERFORMANCE

Project No: GEOTLCON24303AF Task No:
Project Name: SICEEP
Sampler's Name: Priya Dass
Special Instructions: TPH/BTEX/PAH TESTED AS SUITE B4 / METALS AS SUITE M8

Consigning Office: Chatswood
Report Results to: Matthew Locke
Invoices to: Matthew Locke

Email: matthew_locke@coffey.com
Email: matthew_locke@coffey.com

Mobile:
Phone:

Project Manager: Matthew Locke

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil, etc)	Container Type & Preservative*	T-A-T (specify)	Analysis Request Section	Notes
	BH110A (1.0-1.1m)	17/12/12		Soil		Standard	TPH BTEX/PAH (B4)	
	BH110A (1.0-1.1m) A						TPH BTEX/PAH (B4)	
	BH110A (1.5-1.6m)						TPH BTEX/PAH (B4)	
	BH110A (2.0-2.1m)						TPH BTEX/PAH (B4)	
	QC32						TPH BTEX/PAH (B4)	
	BH110A (2.5-2.6m)						TPH BTEX/PAH (B4)	
	BH110A (2.5-2.6m) A						TPH BTEX/PAH (B4)	
	BH110A (3.0-3.1m)						TPH BTEX/PAH (B4)	
	BH110A (3.5-3.6m)						TPH BTEX/PAH (B4)	
	BH110A (3.9-4.0m)						TPH BTEX/PAH (B4)	
	BH110A (3.9-4.0m) A						TPH BTEX/PAH (B4)	
	BH110A (4.5-4.6m)						TPH BTEX/PAH (B4)	
	BH110A (5.0-5.1m)						TPH BTEX/PAH (B4)	
	BH110A (5.5-5.6m)						TPH BTEX/PAH (B4)	
	BH110A (5.5-5.6m) A						TPH BTEX/PAH (B4)	
	BH110A (5.9-6.0m)						TPH BTEX/PAH (B4)	
	QC33						TPH BTEX/PAH (B4)	
	QC33A						TPH BTEX/PAH (B4)	

RELINQUISHED BY		RECEIVED BY	
Name: Priya Dass	Date: 18/12/12	Name: SUE	Date: 18/12/12
Company: Coffey Environments	Time: 3:15 PM	Company: MGT Labmark	Time: 3:15 PM
Name:	Date:	Name:	Date:
Company:	Time:	Company:	Time:

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

Coffey Environments

Version: 4

Issue Date: 24/08/2012

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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SPECIALISTS IN ENVIRONMENTAL,
SOCIAL AND SAFETY PERFORMANCE

Consigning Office: Chatswood

Report Results to: Matthew Locke

Invoiced to: Matthew Locke

Mobile:

Phone:

Email: matthew_locke

Email: matthew_locke

@coffey.com

@coffey.com

Project No: GEOTLCOV24303AF Task No:

Project Name: SICEEP Laboratory: MGT LabMark

Sampler's Name: Priya Dass Project Manager: Matthew Locke

Special Instructions:

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

Lab No. Sample ID Sample Date Matrix Container Type & Preservative* T-A-T (specify)

BH120 (0.03-0.13m) 18/12/12 Soil Standard

BH120 (0.03-0.13m) A

BH120 (0.5-0.6m)

BH120 (1.0-1.1m)

BH120 (1.5-1.6m)

BH120 (1.5-1.6m) A

BH120 (2.0-2.1m)

BH120 (2.4-2.5m)

BH120 (2.8-3.0m)

QC34

BH120 (3.5-3.6m)

BH120 (3.9-4.0m)

BH121 (0.03-0.13m)

BH121 (0.5-0.6m)

BH121 (0.5-0.6m) A

BH121A (0.03-0.13m)

BH121A (0.5-0.6m)

BH121A (1.0-1.1m)

Analysis Request Section

ASLP - Metals (low level)

ASLP - Metals (low level)

ASLP - Metals (low level)

ASLP - Metals (low level)

ASLP - Metals (low level)

ASLP - Metals (low level)

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ASLP - Metals (low level)

ASLP - Metals (low level)

ASLP - Metals (low level)

TPH/BTEX/PAH (BT)

Asbestos

Asbestos

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Asbestos

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition

All Documentation is in Proper Order

Samples Received Properly Chilled

Lab. Ref/Batch No.

Date: 18/12/12

Time: 3:15PM

Date:

Time:

RECEIVED BY

Name: SUE

Company: MGT Labmark

Name:

Company:

Name: Priya Dass

Date: 18/12/12

Time: 3:15PM

Date:

Time:

RELINQUISHED BY

Name: Priya Dass

Date: 18/12/12

Time: 3:15PM

Date:

Time:

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

Coffey Environments

Version: 4

Issue Date: 24/08/2012

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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coffey environments SPECIALISTS IN ENVIRONMENTAL SOCIAL AND SAFETY PERFORMANCE		Consigning Office: Chatswood Report Results to: Matthew Locke Invoices to: Matthew Locke		Email: matthew_locke@coffey.com Email: matthew_locke@coffey.com		
Project No: GEOTL-COV24303AF Project Name: SICEEP Sampler's Name: Priya Dass Special Instructions: AS PER PAGE 1		Task No: Laboratory: MGT Lab Mark Project Manager: Matthew Locke		Mobile: Phone:		
Lab No.	Sample ID	Sample Date	Time	Matrix (Soil, etc)	Container Type & Preservative*	T-A-T (specify)
	BH121A (1.0-1.1m) A					Standard
	BH121A (1.5-1.6m)					
	QC35					
	QC35A					
	BH121A (2.0-2.1m)					
	BH121A (2.5-2.6m)					
	BH121A (2.5-2.6m) A					
	BH121A (2.8-3.0m)					
	BH121A (3.4-3.5m)					

RELINQUISHED BY Name: Priya Dass Date: 18/12/12 Coffey Environments Time: 3:15 p.m.		RECEIVED BY Name: SUE Date: 18/12/12 Company: MGT Labmark Time: 3:15 pm.	
Name: Company:		Date: Time: Date: Time:	

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

* Container Type & Preservation Codes: P - Plastic, G - Glass Bottle, J - Glass Jar, V - Vial, Z - Ziplock Bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative, OP - Other Preservative Coffey Environments	
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Version: 4

Issue Date: 24/08/2012