

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Proposed Wollongong Hospital Redevelopment
LOCATION: Loftus Street, Wollongong

SURFACE LEVEL: 45.4 AHD
EASTING: 305580
NORTHING: 6188707
DIP/AZIMUTH: 90°/--

BORE No: 24
PROJECT No: 48773.05
DATE: 5/5/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
45	0.2	CONCRETE - light grey concrete	△							
	0.4	FILLING - well compacted, dark grey, slag recovered as sandy fine to medium gravel	X	D+E	0.2					
	0.65	FILLING - brown mottled grey brown, clayey, fine to medium gravel (sandstone) with some sand, damp - becoming clayey with some gravel (sandstone) below 0.55m	X	B+E	0.4					
	0.65	Bore discontinued at 0.65m Refusal on high strength, tuffaceous sandstone								
44	1									
43	2									
42	3									
41	4									
40	5									

RIG: Kubota KX41-3V

DRILLER: J & M Boers (John)

LOGGED: RLG

SURVEY DATUM: MGA94

TYPE OF BORING: 300mm concrete core to 0.2m, hand tools to 0.6m, 150mm power auger to 0.65m

CASING: uncased

WATER OBSERVATIONS: No free ground water observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	≡	Water level
		PLD	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Proposed Wollongong Hospital Redevelopment
LOCATION: Loftus Street, Wollongong

SURFACE LEVEL: 45.7 AHD
EASTING: 305506
NORTHING: 6188779
DIP/AZIMUTH: 90°/-

BORE No: 25
PROJECT No: 48773.05
DATE: 5/5/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)										
				Type	Depth	Sample	Results & Comments		5	10	15	20							
	0.02	BITUMINOUS CONCRETE - dark grey, bituminous concrete	[Cross-hatch pattern]																
	0.3	HEAVILY BOUND BASECOURSE - light to mid grey, heavily bound basecourse	[Dotted pattern]																
	0.45	- with some roots at 0.3m																	
	4.5	TUFFACEOUS SANDSTONE - very low to low strength, moderately weathered, orange brown, tuffaceous sandstone																	
		Bore discontinued at 0.45m																	
	1	Refusal on low to medium strength, tuffaceous sandstone																	
	2																		
	3																		
	4																		
	5																		

RIG: Kubota KX41-3V

DRILLER: J & M Boers (John)

LOGGED: RLG

SURVEY DATUM: MGA94

TYPE OF BORING: 300mm concrete core to 0.3m, 150mm power auger to 0.45m

CASING: uncased

WATER OBSERVATIONS: No free ground water observed

Sand Penetrometer AS1289.6.3.3

REMARKS:

Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	≡	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Proposed Wollongong Hospital Redevelopment
LOCATION: Loftus Street, Wollongong

SURFACE LEVEL: 49.1 AHD
EASTING: 305403
NORTHING: 6188654
DIP/AZIMUTH: 90°/--

BORE No: 26
PROJECT No: 48773.05
DATE: 5/5/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)										
				Type	Depth	Sample	Results & Comments		5	10	15	20							
49.1	0.05	BITUMINOUS CONCRETE - dark grey, bituminous concrete	█	D*+E*	0.1														
	0.25	FILLING - grey, sandy, fine to medium gravel (blue metal, crushed concrete), humid	▨	D*	0.3														
	0.6	FILLING - brown mottled red brown and orange brown, sandy gravel(sandstone, concrete, blue metal) with some silt and clay, humid	▨	B*+E	0.5														
	0.65	TUFFACEOUS SANDSTONE - low to medium strength, moderately weathered to slightly weathered, light grey and orange, tuffaceous sandstone	█		0.6														
	1	Bore discontinued at 0.65m Refusal on low to medium strength, tuffaceous sandstone																	
48																			
	2																		
47																			
	3																		
46																			
	4																		
45																			
	5																		
44																			

RIG: Kubota KX41-3V **DRILLER:** J & M Boers (John) **LOGGED:** RLG
TYPE OF BORING: 300mm concrete core to 0.05m, hand tools to 0.6m, 150mm power angler to 0.65m
WATER OBSERVATIONS: No free ground water observed
REMARKS: B* - acid sulphate sample, E* - only glass jar collected, duplicate BD4 taken

SURVEY DATUM: MGA94
CASING: uncased
 Sand Penetrometer AS1289.6.3.3
 Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	▷	Water seep
E	Environmental sample	≡	Water level
		PLD	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



Appendix G

Table G1: Results of Soil Analysis

Table G1: Results of Soil Analysis

Sample ID	Filling (F) / Natural (N)	Heavy Metals									Polycyclic Aromatic Hydrocarbons (PAH)		Total Petroleum Hydrocarbons (TPH)					Monocyclic Aromatic Hydrocarbons				Asbestos	Total Polychlorinated Biphenyls	Organochlorine Pesticides (OCP) ⁶					Organophosphorus Pesticides	Phenols	
		Arsenic	Cadmium	Chromium ¹	Copper	Lead		Mercury	Nickel	Zinc	Benzo(a)pyrene	PAH	C6-C9	C10-C14	C15-C28	C29-C36	C10-C36	Benzene	Toluene	Ethyl benzene	Total Xylenes			Aldrin + Dieldrin	Chlordane	DDT + DDE + DDD	Heptachlor				
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			mg/kg
1/0.2	F	<4	<0.5	3	62	3	-	<0.1	2	18	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
1/0.5	F	5	<0.5	18	40	15	-	<0.1	6	59	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
1/0.6	F	<4	<0.5	11	38	3	-	<0.1	6	10	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
2/0.1	F	7	<0.5	12	45	95	-	0.1	5	170	0.1	-	0.5	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
2/0.2	F	9	<0.5	24	22	19	-	<0.1	5	54	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
2/0.5-0.6	F	6	<0.5	16	18	30	-	<0.1	7	39	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
3/0.1	F	10	<0.5	18	49	91	-	0.5	10	220	0.11	-	0.71	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
3/0.2	F	11	<0.5	24	31	35	-	0.1	8	100	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
3/0.5-0.6	F	12	<0.5	28	130	55	-	<0.1	12	120	7.5	<0.001	77.8	<25	<50	180	100	280	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
3/0.9-1.0	N	9	<0.5	19	22	18	-	<0.1	4	48	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
4/0.1	F	<4	<0.5	8	27	13	-	<0.1	4	44	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
4/0.3	F	<4	<0.5	2	53	4	-	<0.1	2	26	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
4/0.5	F	6	<0.5	14	54	140	<0.03	0.1	10	140	0.07	-	0.47	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
5/0.1	F	<4	<0.5	3	190	4	-	<0.1	6	37	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
5/0.5	F	11	<0.5	12	37	21	-	<0.1	10	76	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
5/1.0-1.1	N	9	<0.5	16	27	19	-	<0.1	10	70	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
6/0.2	F	<4	<0.5	4	120	3	-	<0.1	6	34	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
6/1.0-1.45	N	8	<0.5	20	23	14	-	<0.1	8	71	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
7/0.3	F	<4	<0.5	2	3	<1	-	<0.1	<1	2	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
9/0.1	F	<4	<0.5	7	220	14	-	<0.1	4	36	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
BD6	F	<4	<0.5	6	220	15	-	<0.1	3	34	<0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/0.1	F	<4	<0.5	3	250	4	-	<0.1	7	44	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
BD7	F	<4	<0.5	3	250	4	-	<0.1	7	40	<0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/0.3	F	<4	<0.5	4	200	4	-	<0.1	8	41	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
10/0.5	F	5	<0.5	10	63	21	-	<0.1	4	44	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
11/0.5	N	6	<0.5	19	17	14	-	<0.1	3	29	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
11/1.4-1.5	N	<4	<0.5	35	21	6	-	<0.1	8	79	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
BD1	N	5	<0.5	39	26	9	-	<0.1	11	86	<0.05	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/0.25	F	<4	<0.5	24	40	36	-	<0.1	9	46	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
12/0.4	F	<4	<0.5	16	79	34	-	<0.1	8	61	0.14	-	1.04	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
12/0.65	N	7	<0.5	25	17	11	-	<0.1	5	46	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
13/0.0-0.1	F	5	<0.5	13	52	76	-	<0.1	6	110	0.07	-	0.27	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
13/0.3	F	9	<0.5	8	16	28	-	<0.1	3	31	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
13/0.6	N	6	<0.5	14	19	36	-	<0.1	7	39	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
14/0.1	F	<4	<0.5	4	180	8	-	<0.1	7	47	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
14/0.4	F	6	<0.5	17	46	29	-	<0.1	9	62	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
15/0.0-0.15	F	7	<0.5	16	68	90	-	0.1	9	160	0.41	-	4.71	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
15/0.2	F	9	<0.5	16	22	62	-	<0.1	7	180	0.07	-	0.27	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
16/0.1	F	9	<0.5	14	23	180	<0.03	0.3	7	85	0.38	-	3.98	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
16/0.6	N	6	<0.5	10	12	17	-	<0.1	6	18	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
17/0.1	F	<4	<0.5	6	71	12	-	<0.1	6	49	<0.05	-	0.2	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
BD3	F	<4	<0.5	6	78	12	-	<0.1	6	49	<0.05	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table G1: Results of Soil Analysis

Sample ID	Filling (F) / Natural (N)	Heavy Metals									Polycyclic Aromatic Hydrocarbons (PAH)		Total Petroleum Hydrocarbons (TPH)					Monocyclic Aromatic Hydrocarbons				Asbestos	Total Polychlorinated Biphenyls	Organochlorine Pesticides (OCP) ⁶					Organophosphorus Pesticides	Phenols	
		Arsenic	Cadmium	Chromium ¹	Copper	Lead		Mercury	Nickel	Zinc	Benzo(a)pyrene	PAH	C6-C9	C10-C14	C15-C28	C29-C36	C10-C36	Benzene	Toluene	Ethyl benzene	Total Xylenes			Aldrin + Dieldrin	Chlordane	DDT + DDE + DDD	Heptachlor				
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			mg/kg
17/0.5	F	<4	<0.5	2	370	8	-	<0.1	6	49	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
18/0.5	F	<4	<0.5	2	210	7	-	<0.1	6	38	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
18/0.8	N	7	<0.5	12	31	70	-	0.2	7	54	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
19/0.1	F	9	<0.5	7	16	24	-	0.2	7	58	0.05	-	1.55	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
BD2	F	8	<0.5	7	24	22	-	<0.1	7	55	0.08	-	1.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/0.6	F	<4	<0.5	2	4	<1	-	<0.1	2	4	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
19/1.9-2.0	N	9	<0.5	13	26	13	-	0.3	9	75	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
21/0.6	F	<4	<0.5	5	230	7	-	<0.1	8	56	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
22/0.1	F	<4	<0.5	3	260	4	-	<0.1	7	43	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
22/0.55	F	6	<0.5	22	11	10	-	<0.1	1	12	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	-	-	-	-	-	-	-	-
23/0.1	F	<4	<0.5	2	260	4	-	<0.1	7	39	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
23/0.5	F	<4	<0.5	3	200	6	-	<0.1	6	37	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
23/1.0	F	5	<0.5	18	100	14	-	<0.1	6	46	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
24/0.2	F	<4	<0.5	3	74	3	-	<0.1	1	16	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
24/0.4-0.65	F	6	<0.5	19	47	74	-	<0.1	4	39	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
26/0.1	F	<4	<0.5	3	210	6	-	<0.1	7	39	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	-	-	-	-	-	-	-	-	-
26/0.5	F	6	<0.5	15	59	16	-	<0.1	5	58	<0.05	-	<0.1	<25	<50	<100	<100	<250	<0.2	<0.5	<1	<2	NAD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5
95% UCL	-	-	-	-	-	-	-	-	-	-	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAC																															
HIL		500	100	60%	5000	1500	ND	75	3000	35000	5	ND	100	65	ND	ND	ND	1000	1	1.4	3.1	14	NAD	50	50	250	1000	50	ND	42500	
Waste Classification Guidelines																															
CT1		100	20	100	ND	100	ND	4	40	ND	0.8	ND	ND	ND	ND	ND	ND	ND	10	288	600	1000	ND	ND	ND	ND	ND	ND	ND	288	
SCC1		ND	ND	ND	ND	1500	ND	ND	ND	ND	10	ND	200	65	ND	ND	ND	10000	18	518	1080	1800	ND	<50	<50					518	
TCLP1		ND	ND	ND	ND	ND	5	ND	ND	ND	ND	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NEPC		1-50	100-300	5-1000	2-100	2-200	ND	0.03	5-500	10-300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

- Notes
- HIL NSW DEC Contaminated Sites: *Guidelines for the NSW Site Auditors Scheme 2nd Edition, 2006*. Health-based guidelines for commercial or industrial sites (Column 4)
 - CT1 NSW DECC Waste Classification Guidelines: Part 1 Classifying Waste, December 2009, Maximum values of specific contaminant concentration (SCC) for classification without TCLP - General Solid Waste
 - SCC1 NSW DECC Waste Classification Guidelines: Part 1 Classifying Waste, December 2009, Maximum values for leachable concentration and specific contaminant concentration when used together - Specific Contaminant Concentration: General Solid Waste
 - TCLP1 NSW DECC Waste Classification Guidelines: Part 1 Classifying Waste, December 2009, Maximum values for leachable concentration and specific contaminant concentration when used together - Leachable Concentration: General Solid Waste
 - NEPC NEPC (1999). National Environmental Protection (Assessment of Site Contamination) Measure Schedule B(1) Guidelines on the Investigation Levels for Soil and Groundwater, Background Ranges
 - 1 All Chromium are assumed to exist in the stable Cr(III) oxidation state, as Cr(VI) will be too reactive and unstable under the normal environment
 - Not tested/Not applicable
 - ND Not defined
 - NAD No Asbestos Detected
 - 95% UCL 95% Chebyshev(Mean, Sd) UCL

Appendix H

Table H1: Results of Groundwater Analysis

Table H1: Results of Groundwater Analysis

Sample ID	Heavy Metals								Polycyclic Aromatic Hydrocarbons (PAH)		Total Petroleum Hydrocarbons (TPH)				Monocyclic Aromatic Hydrocarbons				Total Polychlorinated Biphenyls	Organophosphorous Pesticides	Organochlorine Pesticides					Phenols	Hardness
	Arsenic	Cadmium	Chromium ¹	Copper	Lead	Mercury	Nickel	Zinc	Benzo(a)pyrene	PAH	C6-C36	C10-C14	C15-28	C29-C36	Benzene	Toluene	Ethylbenzene	Total Xylene			Chlordane	DDT	Endosulfan	Endrin	Heptachlor		
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L			µg/L	µg/L	µg/L	µg/L	µg/L		
GW09/240511	2	1	3	11	<1	<0.1	24	100	<1	3	35	160	<100	<100	<1	<1	<1	14	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<50	55	
BD1/240511	1	0.9	2	11	<1	<0.1	26	100	<1	3	24	120	<100	<100	<1	<1	<1	13	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<50	50	
Reanalysis with Silia Gel clean up																											
GW09/240511	-	-	-	-	-	-	-	-	-	-	18	<50	<100	<100	<1	<1	<1	<3	-	-	-	-	-	-	-	-	
SAC																											
ANZECC	13	0.2	27.4	1.4	3.4	0.6	11	8	ND	ND	600				950	1000	150	550	0.63	0.46	0.08	0.01	0.2	0.02	0.09	320	ND
Hardness Adjusted ANZECC	-	0.3	43	2	7	-	18	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes

ANZECC ANZECC Guidelines for Fresh and Marine Water Quality - Fresh/Marine Waters (2000)

1 All Chromium are assumed to exist in the stable Cr(III) oxidation state, as Cr(VI) will be too reactive and unstable under the normal environment

- Not tested/Not applicable

ND Not Defined

Appendix I

Detailed Laboratory Results Sheets
Chain of Custody Information



CHAIN OF CUSTODY

Project Name: Proposed Redevelopment – Wollongong Hospital		To: Envirolab Services
Project No: 48773.05	Sampler: RLG	12 Ashley St Chatswood 2067
Project Mgr: JAS	Mob. Phone: 0413810422	Attn: Tania Notaras
Email: bethany.seville@douglaspartners.com.au		Phone: (02) 9910 6200 Fax: (02) 9910 6201
Date Required: Std		Email: tnotaras@envirolabservices.com.au

Sample ID	Lab ID	Sampling Date	Sample Type	Container type	Analytes										Notes/preservation	
			S - soil W - water	G - glass P - plastic	Combo 8a	Combo 3	8 heavy metals	PAH	pH, resistivity, sulphates & chlorides	TCLP (prep + HM & PAH)						
1/0.2	1		S	G, P		●										
1/0.5	2		S	G, P		●										
1/0.6	3		S	G, P	●											
1/1.0-1.45	4		S	G												
2/0.1	5		S	G, P	●											
2/0.2	6		S	G, P		●										
2/0.5-0.6	7		S	G, P		●										
2/0.9-1.0	8		S	G, P												
3/0.1	9		S	G, P	●											
3/0.2	10		S	G, P		●										
3/0.5-0.6	11		S	G, P		●										
3/0.7-0.8	12		S	G, P												
3/0.9-1.0	13		S	G, P		●										

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: **55525**

Date received: **16-5-11**
Time received: **18:30**
Received by: **ET**
Temp: **20°C Ambient**
Cooling: **Ice packs**
Security: **Intact/Broken/None**

Lab Report No:		Address: PO Box 486, Unanderra NSW 2526		Phone: (02) 4271 1836 Fax: (02) 4271 1897	
Send Results to: Douglas Partners Pty Ltd			Transported to laboratory by: Clippers		
Relinquished by: BPS		Date & Time: 16.5.11 9am		Received By: E. Seville (PWS) 16-5-11, 18:30.	
Signed: [Signature]					

16-05-11:11:36 ; 61 2 42711997 # 2/ 9

Project Name: Proposed Redevelopment – Wollongong Hospital		To: Envirolab Services
Project No: 48773.05	Sampler: RLG	12 Ashley St Chatswood 2067
Project Mgr: JAS	Mob. Phone: 0413810422	Attn: Tania Notaras
Email: bethany.seville@douglaspartners.com.au		Phone: (02) 9910 6200 Fax: (02) 9910 6201
Date Required: Std		Email: tnotaras@envirolabservices.com.au

Sample ID	Lab ID	Sampling Date	Sample Type	Container type	Analytes										Notes/preservation	
			S - soil W - water	G - glass P - plastic	Combo 8a	Combo 3	8 heavy metals	PAH	pH, resistivity, sulphates & chlorides	TCLP (prep + HM & PAH)						
3/1.8-1.9	14		S	G,P												
4/0.1	15		S	G, P	●											
4/0.3	16		S	G, P		●										
4/0.5	17		S	G, P		●										
4/1.0	18		S	G, P												
4/1.5-1.95	19		S	G												
5/0.1	20		S	G	●											
5/0.5	21		S	G, P		●										
5/0.9	22		S	P												
5/1.0-1.1	23		S	G		●										
6/0.2	24		S	G,P	●											
6/0.9	25		S	G												
6/1.0-1.45	26		S	G		●										

Lab Report No:		Address: PO Box 486, Unanderra NSW 2526		Phone: (02) 4271 1836 Fax: (02) 4271 1897	
Send Results to: Douglas Partners Pty Ltd			Transported to laboratory by: Clippers		
Relinquished by: BPS			Received By: E. [Signature] 16-5-11, 16:30		
Signed: [Signature]		Date & Time: 16.5.11 9am			

 # 3 / 9
 : 61 2 42711997
 16-05-11:11:38

Project Name: Proposed Redevelopment – Wollongong Hospital		To: Envirolab Services
Project No: 48773.05	Sampler: RLG	12 Ashley St Chatswood 2067
Project Mgr: JAS	Mob. Phone: 0413810422	Attn: Tania Notaras
Email: bethany.seville@douglaspartners.com.au		Phone: (02) 9910 6200 Fax: (02) 9910 6201
Date Required: Std		Email: tnotaras@envirolabservices.com.au

Sample ID	Lab ID	Sampling Date	Sample Type	Container type	Analytes										Notes/preservation	
			S - soil W - water	G - glass P - plastic	Combo 8a	Combo 3	8 heavy metals	PAH	pH, resistivity, sulphates & chlorides	TCLP (prep + HM & PAH)						
6/2.5-2.75	27		S	G												
7/0.3	28		S	G,P	●											
7/0.35	29		S	G												
7/0.4	30		S	G												
9/0.1	31		S	G,P	●											
9/0.35	32		S	P												'labelled 9/05'
9/1.5-1.95	33		S	G												
9/2.5-2.95	34		S	G												
10/0.1	35		S	G,P	●											
10/0.3	36		S	G,P		●										
10/0.5	37		S	G,P		●										
11/0.5	38		S	G,P	●											
11/1.4-1.5	39		S	G,P		●										

Lab Report No:		Send Results to: Douglas Partners Pty Ltd		Address: PO Box 486, Unanderra NSW 2526		Phone: (02) 4271 1836 Fax: (02) 4271 1897	
Relinquished by: BPS				Transported to laboratory by: Clippers			
Signed: <i>[Signature]</i>		Date & Time: 16.5.11 9am		Received By: <i>[Signature]</i> 16:30			

16-05-11:11:38 ; # 47 9 ; 61 2 42711897

Project Name: Proposed Redevelopment – Wollongong Hospital		To: Envirolab Services
Project No: 48773.05	Sampler: RLG	12 Ashley St Chatswood 2067
Project Mgr: JAS	Mob. Phone: 0413810422	Attn: Tania Notaras
Email: bethany.seville@douglaspartners.com.au		Phone: (02) 9910 6200 Fax: (02) 9910 6201
Date Required: Std		Email: tnotaras@envirolabservices.com.au

Sample ID	Lab ID	Sampling Date	Sample Type		Container type		Analytes								Notes/preservation
			S - soil W - water	G - glass P - plastic	Combo 8a	Combo 3	8 heavy metals	PAH	pH, resistivity, sulphates & chlorides	TCLP (prep + HM & PAH)					
12/0.25	40		S	G,P	☉										
12/0.4	41		S	G,P	☉										
12/0.65	42		S	G,P		☉									
12/0.9-1.0	43		S	G,P											
13/0.0-0.1	44		S	G,P		☉									
13/0.3	45		S	G,P	☉										
13/0.6	46		S	G,P		☉									
14/0.1	47		S	G,P	☉										
14/0.4	48		S	G,P		☉									
14/0.6	49		S	G,P											
14/1.5-1.9	50		S	G											
15/0-0.15	51		S	G,P	☉										
15/0.2	52		S	G,P		☉									

Lab Report No:		Address: PO Box 486, Unanderra NSW 2526		Phone: (02) 4271 1836 Fax: (02) 4271 1897	
Send Results to: Douglas Partners Pty Ltd			Transported to laboratory by: Clippers		
Relinquished by: BPS		Date & Time: 16.5.11 9am		Received By: S. S. 16/5/11, 16:30.	
Signed: <i>glodd</i>					

16-05-11:11:38 ; 161 2 42711897 # 5/ 9

Project Name: Proposed Redevelopment – Wollongong Hospital		To: Envirolab Services
Project No: 48773.05	Sampler: RLG	12 Ashley St Chatswood 2067
Project Mgr: JAS	Mob. Phone: 0413810422	Attn: Tania Notaras
Email: bethany.seville@douglaspartners.com.au		Phone: (02) 9910 6200 Fax: (02) 9910 6201
Date Required: Std		Email: tnotaras@envirolabservices.com.au

Sample ID	Lab ID	Sampling Date	Sample Type	Container type	Analytes										Notes/preservation		
			S - soil W - water	G - glass P - plastic	Combo 8a	Combo 3	8 heavy metals	PAH	pH, resistivity, sulphates & chlorides	TCLP (prep + HM & PAH)							
15/0.6	53		S	G,P													
15/0.9-1	54		S	G,P													
15/1.4-1.5	55		S	P													
15/1.9-2	56		S	G,P													
15/2.4-2.5	57		S	P													
15/2.7-2.85	58		S	P													
16/0.1	59		S	G, P	⊙												
16/0.6	60		S	G, P		⊙											
16/0.9	61		S	G, P													
16/1.6-1.7	62		S	G,P													
17/0.1	63		S	G,P	⊙												
17/0.5	64		S	G, P		⊙											
17/0.7	65		S	G, P													
Lab Report No:																	
Send Results to: Douglas Partners Pty Ltd					Address: PO Box 486, Unanderra NSW 2526					Phone: (02) 4271 1836 Fax: (02) 4271 1897							
Relinquished by: BPS					Transported to laboratory by: Clippers												
Signed: <i>[Signature]</i>					Date & Time: 16.5.11 9am					Received By: <i>[Signature]</i> 16.30.							

 # 6 / 9
 16-05-11 11:36
 161 2 42711997

Project Name: Proposed Redevelopment – Wollongong Hospital		To: Envirolab Services
Project No: 48773.05	Sampler: RLG	12 Ashley St Chatswood 2067
Project Mgr: JAS	Mob. Phone: 0413810422	Attn: Tania Notaras
Email: bethany.seville@douglaspartners.com.au		Phone: (02) 9910 6200 Fax: (02) 9910 6201
Date Required: Std		Email: tnotaras@envirolabservices.com.au

Sample ID	Lab ID	Sampling Date	Sample Type	Container type	Analytes										Notes/preservation	
			S - soil W - water	G - glass P - plastic	Combo 8a	Combo 3	8 heavy metals	PAH	pH, resistivity, sulphates & chlorides	TCLP (prep + HM & PAH)						
18/0.5	66		S	G, P	●											
18/0.8	67		S	G, P		●										
19/0.1	68		S	G, P	●											
19/0.6	69		S	G, P		●										
19/1.0	70		S	G, P												
19/1.9-2	71		S	G, P		●										
19/2.9-3.0	72		S	G, P												
21/0.6	73		S	G, P	●											
21/0.9-1.0	74		S	G												
21/1.0-1.1	75		S	P												
22/0.1	76		S	G, P	●											
22/0.55	77		S	G, P		●										
23/0.1	78		S	G, P		●										

Lab Report No:		Send Results to: Douglas Partners Pty Ltd		Address: PO Box 486, Unanderra NSW 2526		Phone: (02) 4271 1836 Fax: (02) 4271 1897	
Relinquished by: BPS				Transported to laboratory by: Clippers			
Signed: <i>[Signature]</i>		Date & Time: 16.5.11 9am		Received By: <i>[Signature]</i> 16.30			

7/ 9
 : 61 2 42711897
 16-05-11:11:38

Project Name: Proposed Redevelopment – Wollongong Hospital		To: Envirolab Services
Project No: 48773.05	Sampler: RLG	12 Ashley St Chatswood 2067
Project Mgr: JAS	Mob. Phone: 0413810422	Attn: Tania Notaras
Email: bethany.seville@douglaspartners.com.au		Phone: (02) 9910 6200 Fax: (02) 9910 6201
Date Required: Std		Email: tnotaras@envirolabservices.com.au

Sample ID	Lab ID	Sampling Date	Sample Type	Container type	Analytes										Notes/preservation		
			S - soil W - water	G - glass P - plastic	Combo 8a	Combo 3	8 heavy metals	PAH	pH, resistivity, sulphates & chlorides	TCLP (prep + HM & PAH)							
23/0.5	79		S	G,P		●											
23/1.0	80		S	G,P	●												
24/0.2	81		S	G,P		●											
24/0.4-0.65	82		S	G,P	●												
26/0.1	83		S	G,P		●											
26/0.5	84		S	G,P	●												
✓ BD1	85		S	G				●	●								
✓ BD2	86		S	G				●	●								
✓ BD3	87		S	G				●	●								
✓ BD4	88		S	G													
- BD5	89		S	G													
✓ BD6	90		S	G				●	●								
✓ BD7	91		S	G				●	●								

Lab Report No:			
Send Results to: Douglas Partners Pty Ltd		Address: PO Box 486, Unanderra NSW 2526	
		Phone: (02) 4271 1836 Fax: (02) 4271 1897	
Relinquished by: BPS		Transported to laboratory by: Clippers	
Signed: <i>[Signature]</i>	Date & Time: 16.5.11 9am	Received By: <i>[Signature]</i> 16.5.11, 16.30.	

16-05-11:11:38 ; 81 2 42711897 # 8/ 9

Project Name: Proposed Redevelopment – Wollongong Hospital		To: Envirolab Services
Project No: 48773.05	Sampler: RLG	12 Ashley St Chatswood 2067
Project Mgr: JAS	Mob. Phone: 0413810422	Attn: Tania Notaras
Email: bethany.seville@douglaspartners.com.au		Phone: (02) 9910 6200 Fax: (02) 9910 6201
Date Required: Std		Email: tnotaras@envirolabservices.com.au

Sample ID	Lab ID	Sampling Date	Sample Type		Container type		Analytes							Notes/preservation		
			S - soil W - water	G - glass P - plastic	Combo 8a	Combo 3	8 heavy metals	PAH	pH, resistivity, sulphates & chlorides	TCLP (prep + HM & PAH)	BTEX					
TB 4/5/11	92		S	G												
TB 4/5/11	93		S	G												
TB 5/5/11	94		S	G												
TB4 6/5/11	95		S	G												
TB5 6/5/11	96		S	G												
TB6 6/5/11	97		S	G												
TB 4/5/11	98															

Lab Report No:			
Send Results to: Douglas Partners Pty Ltd		Address: PO Box 486, Unanderra NSW 2526	
		Phone: (02) 4271 1836 Fax: (02) 4271 1897	
Relinquished by: BPS		Transported to laboratory by: Clippers	
Signed: <i>[Signature]</i>	Date & Time: 16.5.11 9am	Received By: <i>[Signature]</i> 16-5-11, 16:30.	

16-05-11:11:38 ; 161 2 42711897 # 9/ 9



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS

55523

Client:

Douglas Partners Unanderra
Unit 1, 1 Luso Drive
Unanderra
NSW 2526

Attention: Bethany Seville

Sample log in details:

Your Reference: **48773.05, Wollongong Hospital**
No. of samples: 97 Soils
Date samples received / completed instructions received 16/05/11 / 16/05/11


Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

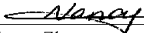
Report Details:

Date results requested by: / Issue Date: 23/05/11 / 24/05/11
Date of Preliminary Report: Not Issued
NATA accreditation number 2901. This document shall not be reproduced except in full.
This document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**


Results Approved By:



Jacinta Hurst
Laboratory Manager



Nancy Zhang
Chemist



Rhian Morgan
Reporting Supervisor



Paul Ching
Approved Signatory

Envirolab Reference: 55523
Revision No: R 00



vTRH & BTEX in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-1 1/0.2 Soil	55523-2 1/0.5 Soil	55523-3 1/0.6 Soil	55523-5 2/01 Soil	55523-6 2/0.2 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	93	97	97	88

vTRH & BTEX in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-7 2/0.5-0.6 Soil	55523-9 3/0.1 Soil	55523-10 3/0.2 Soil	55523-11 3/0.5-0.6 Soil	55523-13 3/0.9-1.0 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	91	100	98	92

vTRH & BTEX in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-15 4/0.1 Soil	55523-16 4/0.3 Soil	55523-17 4/0.5 Soil	55523-20 5/0.1 Soil	55523-21 5/0.5 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	97	100	101	96	95

vTRH & BTEX in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-23 5/1.0-1.1 Soil	55523-24 6/0.2 Soil	55523-26 6/1.0-1.45 Soil	55523-28 7/0.3 Soil	55523-31 9/0.1 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	99	95	101	101

vTRH & BTEX in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-35 10/0.1 Soil	55523-36 10/0.3 Soil	55523-37 10/0.5 Soil	55523-38 11/0.5 Soil	55523-39 11/1.4-1.5 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	111	109	108	96	108

vTRH & BTEX in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-40 12/0.25 Soil	55523-41 12/0.4 Soil	55523-42 12/0.65 Soil	55523-44 13/0.0-0.1 Soil	55523-45 13/0.3 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	100	108	102	107	102

vTRH & BTEX in Soil	UNITS	55523-46	55523-47	55523-48	55523-51	55523-52
Our Reference:	-----	13/0.6	14/0.1	14/0.4	15/0-0.15	15/0.2
Your Reference	-----					
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	101	113	105	97	106

vTRH & BTEX in Soil	UNITS	55523-59	55523-60	55523-63	55523-64	55523-66
Our Reference:	-----	16/0.1	16/0.6	17/0.1	17/0.5	18/0.5
Your Reference	-----					
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	17/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	103	93	101	101	103

vTRH & BTEX in Soil	UNITS	55523-67	55523-68	55523-69	55523-71	55523-73
Our Reference:	-----	18/0.8	19/0.1	19/0.6	19/1.9-2	21/0.6
Your Reference	-----					
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	101	101	104	101	98

vTRH & BTEX in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-76 22/0.1 Soil	55523-77 22/0.55 Soil	55523-78 23/0.1 Soil	55523-79 23/0.5 Soil	55523-80 23/1.0 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	17/05/2011	17/05/2011	18/05/2011	18/05/2011	18/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	85	78	90	84	96

vTRH & BTEX in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-81 24/0.2 Soil	55523-82 24/0.4-0.65 Soil	55523-83 26/0.1 Soil	55523-84 26/0.5 Soil	55523-92 TB1 4/5/11 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	[NA]
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	88	77	92	95	100

vTRH & BTEX in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-93 TB2 4/5/11 Soil	55523-94 TB3 5/5/11 Soil	55523-95 TB4 6/5/11 Soil	55523-96 TB5 6/5/11 Soil	55523-97 TB6 6/5/11 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	95	96	95	97	105

sTRH in Soil (C10-C36)	UNITS	55523-1	55523-2	55523-3	55523-5	55523-6
Our Reference:	-----	1/0.2	1/0.5	1/0.6	2/01	2/0.2
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	97	92	90	89	89

sTRH in Soil (C10-C36)	UNITS	55523-7	55523-9	55523-10	55523-11	55523-13
Our Reference:	-----	2/0.5-0.6	3/0.1	3/0.2	3/0.5-0.6	3/0.9-1.0
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	180	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	100	<100
Surrogate o-Terphenyl	%	89	90	89	98	90

sTRH in Soil (C10-C36)	UNITS	55523-15	55523-16	55523-17	55523-20	55523-21
Our Reference:	-----	4/0.1	4/0.3	4/0.5	5/0.1	5/0.5
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	90	90	89	91	89

sTRH in Soil (C10-C36)	UNITS	55523-23	55523-24	55523-26	55523-28	55523-31
Our Reference:	-----	5/1.0-1.1	6/0.2	6/1.0-1.45	7/0.3	9/0.1
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	90	91	91	91	90

sTRH in Soil (C10-C36)	UNITS	55523-35	55523-36	55523-37	55523-38	55523-39
Our Reference:	-----	10/0.1	10/0.3	10/0.5	11/0.5	11/1.4-1.5
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	91	90	93	88	88

sTRH in Soil (C10-C36)	UNITS	55523-40	55523-41	55523-42	55523-44	55523-45
Our Reference:	-----	12/0.25	12/0.4	12/0.65	13/0.0-0.1	13/0.3
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	90	90	87	88	82

sTRH in Soil (C10-C36)	UNITS	55523-46	55523-47	55523-48	55523-51	55523-52
Our Reference:	-----	13/0.6	14/0.1	14/0.4	15/0-0.15	15/0.2
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	92	90	90	87	87

sTRH in Soil (C10-C36)	UNITS	55523-59	55523-60	55523-63	55523-64	55523-66
Our Reference:	-----	16/0.1	16/0.6	17/0.1	17/0.5	18/0.5
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	88	88	88	88	87

sTRH in Soil (C10-C36)	UNITS	55523-67	55523-68	55523-69	55523-71	55523-73
Our Reference:	-----	18/0.8	19/0.1	19/0.6	19/1.9-2	21/0.6
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	89	91	89	86	88

sTRH in Soil (C10-C36)	UNITS	55523-76	55523-77	55523-78	55523-79	55523-80
Our Reference:	-----	22/0.1	22/0.55	23/0.1	23/0.5	23/1.0
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	88	87	87	88	87

sTRH in Soil (C10-C36)	UNITS	55523-81	55523-82	55523-83	55523-84
Our Reference:	-----	24/0.2	24/0.4-0.65	26/0.1	26/0.5
Your Reference	-----	Soil	Soil	Soil	Soil
Type of sample					
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100
Surrogate o-Terphenyl	%	89	86	90	89

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-1 1/0.2 Soil	55523-2 1/0.5 Soil	55523-3 1/0.6 Soil	55523-5 2/01 Soil	55523-6 2/0.2 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	0.1	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	121	113	115	110	115

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-7 2/0.5-0.6 Soil	55523-9 3/0.1 Soil	55523-10 3/0.2 Soil	55523-11 3/0.5-0.6 Soil	55523-13 3/0.9-1.0 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	0.4	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	1.2	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	0.5	<0.1
Phenanthrene	mg/kg	<0.1	0.1	<0.1	7.0	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	1.8	<0.1
Fluoranthene	mg/kg	<0.1	0.2	<0.1	14	<0.1
Pyrene	mg/kg	<0.1	0.2	<0.1	14	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	6.8	<0.1
Chrysene	mg/kg	<0.1	0.1	<0.1	6.6	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	9.8	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.11	<0.05	7.5	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	3.8	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	0.8	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	3.6	<0.1
Surrogate p-Terphenyl-d14	%	111	115	113	112	112

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-15 4/0.1 Soil	55523-16 4/0.3 Soil	55523-17 4/0.5 Soil	55523-20 5/0.1 Soil	55523-21 5/0.5 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.07	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	115	104	111	114	108

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-23 5/1.0-1.1 Soil	55523-24 6/0.2 Soil	55523-26 6/1.0-1.45 Soil	55523-28 7/0.3 Soil	55523-31 9/0.1 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	112	118	111	115	124

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-35 10/0.1 Soil	55523-36 10/0.3 Soil	55523-37 10/0.5 Soil	55523-38 11/0.5 Soil	55523-39 11/1.4-1.5 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	121	112	111	117	117

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-40 12/0.25 Soil	55523-41 12/0.4 Soil	55523-42 12/0.65 Soil	55523-44 13/0.0-0.1 Soil	55523-45 13/0.3 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.2	<0.1	0.1	<0.1
Pyrene	mg/kg	<0.1	0.2	<0.1	0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.14	<0.05	0.07	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	111	113	115	113	120

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-46 13/0.6 Soil	55523-47 14/0.1 Soil	55523-48 14/0.4 Soil	55523-51 15/0-0.15 Soil	55523-52 15/0.2 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.5	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.9	0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	0.9	0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	0.4	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	0.5	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	0.6	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	0.41	0.07
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Surrogate p-Terphenyl-d14	%	111	118	116	115	115

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-59 16/0.1 Soil	55523-60 16/0.6 Soil	55523-63 17/0.1 Soil	55523-64 17/0.5 Soil	55523-66 18/0.5 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.2	<0.1	0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.8	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.5	<0.1	0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	0.7	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.38	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	117	119	111	114	115

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-67 18/0.8 Soil	55523-68 19/0.1 Soil	55523-69 19/0.6 Soil	55523-71 19/1.9-2 Soil	55523-73 21/0.6 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.6	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	112	116	113	115	118

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-76 22/0.1 Soil	55523-77 22/0.55 Soil	55523-78 23/0.1 Soil	55523-79 23/0.5 Soil	55523-80 23/1.0 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	129	110	111	112	122

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-81 24/0.2 Soil	55523-82 24/0.4-0.65 Soil	55523-83 26/0.1 Soil	55523-84 26/0.5 Soil	55523-85 BD1 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	114	116	113	119	111

PAHs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-86 BD2 Soil	55523-87 BD3 Soil	55523-90 BD6 Soil	55523-91 BD7 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.5	0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.2	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.2	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.5	0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.08	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	108	107	106	105

Organochlorine Pesticides in soil	UNITS	55523-3	55523-5	55523-9	55523-15	55523-20
Our Reference:	-----	1/0.6	2/01	3/0.1	4/0.1	5/0.1
Your Reference	-----					
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	105	81	78	80	81

Organochlorine Pesticides in soil	UNITS	55523-24	55523-28	55523-31	55523-35	55523-38
Our Reference:	-----	6/0.2	7/0.3	9/0.1	10/0.1	11/0.5
Your Reference	-----					
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	81	87	82	83	81

Organochlorine Pesticides in soil	UNITS	55523-40	55523-41	55523-45	55523-47	55523-51
Our Reference:	-----	12/0.25	12/0.4	13/0.3	14/0.1	15/0-0.15
Your Reference	-----					
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	79	86	82	73	72

Organochlorine Pesticides in soil	UNITS	55523-59	55523-63	55523-66	55523-68	55523-73
Our Reference:	-----	16/0.1	17/0.1	18/0.5	19/0.1	21/0.6
Your Reference	-----					
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	69	68	72	68	73

Organochlorine Pesticides in soil	UNITS	55523-76	55523-80	55523-82	55523-84
Our Reference:	-----	22/0.1	23/1.0	24/0.4-0.65	26/0.5
Your Reference	-----				
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	73	70	74	79

Organophosphorus Pesticides	UNITS	55523-3	55523-5	55523-9	55523-15	55523-20
Our Reference:	-----	1/0.6	2/01	3/0.1	4/0.1	5/0.1
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	105	81	79	80	81

Organophosphorus Pesticides	UNITS	55523-24	55523-28	55523-31	55523-35	55523-38
Our Reference:	-----	6/0.2	7/0.3	9/0.1	10/0.1	11/0.5
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	81	87	82	83	81

Organophosphorus Pesticides	UNITS	55523-40	55523-41	55523-45	55523-47	55523-51
Our Reference:	-----	12/0.25	12/0.4	13/0.3	14/0.1	15/0-0.15
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	79	86	82	73	72

Organophosphorus Pesticides	UNITS	55523-59	55523-63	55523-66	55523-68	55523-73
Our Reference:	-----	16/0.1	17/0.1	18/0.5	19/0.1	21/0.6
Your Reference	-----					
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	69	68	72	68	73

Organophosphorus Pesticides	UNITS	55523-76	55523-80	55523-82	55523-84
Our Reference:	-----	22/0.1	23/1.0	24/0.4-0.65	26/0.5
Your Reference	-----				
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	73	70	74	79

PCBs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-3 1/0.6 Soil	55523-5 2/01 Soil	55523-9 3/0.1 Soil	55523-15 4/0.1 Soil	55523-20 5/0.1 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	105	81	79	80	81

PCBs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-24 6/0.2 Soil	55523-28 7/0.3 Soil	55523-31 9/0.1 Soil	55523-35 10/0.1 Soil	55523-38 11/0.5 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	81	87	82	83	81

PCBs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-40 12/0.25 Soil	55523-41 12/0.4 Soil	55523-45 13/0.3 Soil	55523-47 14/0.1 Soil	55523-51 15/0-0.15 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	79	86	82	73	72

Client Reference: 48773.05, Wollongong Hospital

PCBs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-59 16/0.1 Soil	55523-63 17/0.1 Soil	55523-66 18/0.5 Soil	55523-68 19/0.1 Soil	55523-73 21/0.6 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	69	68	72	68	73

PCBs in Soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-76 22/0.1 Soil	55523-80 23/1.0 Soil	55523-82 24/0.4-0.65 Soil	55523-84 26/0.5 Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	73	70	74	79

Total Phenolics in Soil						
Our Reference:	UNITS	55523-3	55523-5	55523-9	55523-15	55523-20
Your Reference	-----	1/0.6	2/01	3/0.1	4/0.1	5/0.1
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	19/05/2011	19/05/2011	19/05/2011	19/05/2011	19/05/2011
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Total Phenolics in Soil						
Our Reference:	UNITS	55523-24	55523-28	55523-31	55523-35	55523-38
Your Reference	-----	6/0.2	7/0.3	9/0.1	10/0.1	11/0.5
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	19/05/2011	19/05/2011	19/05/2011	19/05/2011	19/05/2011
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Total Phenolics in Soil						
Our Reference:	UNITS	55523-40	55523-41	55523-45	55523-47	55523-51
Your Reference	-----	12/0.25	12/0.4	13/0.3	14/0.1	15/0-0.15
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	19/05/2011	19/05/2011	19/05/2011	19/05/2011	19/05/2011
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Total Phenolics in Soil						
Our Reference:	UNITS	55523-59	55523-63	55523-66	55523-68	55523-73
Your Reference	-----	16/0.1	17/0.1	18/0.5	19/0.1	21/0.6
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	19/05/2011	19/05/2011	19/05/2011	19/05/2011	19/05/2011
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Total Phenolics in Soil					
Our Reference:	UNITS	55523-76	55523-80	55523-82	55523-84
Your Reference	-----	22/0.1	23/1.0	24/0.4-0.65	26/0.5
Type of sample	-----	Soil	Soil	Soil	Soil
Date extracted	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	19/05/2011	19/05/2011	19/05/2011	19/05/2011
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5

Acid Extractable metals in soil	UNITS	55523-1	55523-2	55523-3	55523-5	55523-6
Our Reference:	-----	1/0.2	1/0.5	1/0.6	2/01	2/0.2
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	<4	5	<4	7	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	3	18	11	12	24
Copper	mg/kg	62	40	38	45	22
Lead	mg/kg	3	15	3	95	19
Mercury	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Nickel	mg/kg	2	6	6	5	5
Zinc	mg/kg	18	59	10	170	54

Acid Extractable metals in soil	UNITS	55523-7	55523-9	55523-10	55523-11	55523-13
Our Reference:	-----	2/0.5-0.6	3/0.1	3/0.2	3/0.5-0.6	3/0.9-1.0
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	6	10	11	12	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	16	18	24	28	19
Copper	mg/kg	18	49	31	130	22
Lead	mg/kg	30	91	35	55	18
Mercury	mg/kg	<0.1	0.5	0.1	<0.1	<0.1
Nickel	mg/kg	7	10	8	12	4
Zinc	mg/kg	39	220	100	120	48

Acid Extractable metals in soil	UNITS	55523-15	55523-16	55523-17	55523-20	55523-21
Our Reference:	-----	4/0.1	4/0.3	4/0.5	5/0.1	5/0.5
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	<4	<4	6	<4	11
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	8	2	14	3	12
Copper	mg/kg	27	53	54	190	37
Lead	mg/kg	13	4	140	4	21
Mercury	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Nickel	mg/kg	4	2	10	6	10
Zinc	mg/kg	44	26	140	37	76

Acid Extractable metals in soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-23 5/1.0-1.1 Soil	55523-24 6/0.2 Soil	55523-26 6/1.0-1.45 Soil	55523-28 7/0.3 Soil	55523-31 9/0.1 Soil
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	9	<4	8	<4	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	16	4	20	2	7
Copper	mg/kg	27	120	23	3	220
Lead	mg/kg	19	3	14	<1	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	6	8	<1	4
Zinc	mg/kg	70	34	71	2	36

Acid Extractable metals in soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-35 10/0.1 Soil	55523-36 10/0.3 Soil	55523-37 10/0.5 Soil	55523-38 11/0.5 Soil	55523-39 11/1.4-1.5 Soil
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	<4	<4	5	6	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	3	4	10	19	35
Copper	mg/kg	250	200	63	17	21
Lead	mg/kg	4	4	21	14	6
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	8	4	3	8
Zinc	mg/kg	44	41	44	29	79

Acid Extractable metals in soil Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-40 12/0.25 Soil	55523-41 12/0.4 Soil	55523-42 12/0.65 Soil	55523-44 13/0.0-0.1 Soil	55523-45 13/0.3 Soil
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	<4	<4	7	5	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	24	16	25	13	8
Copper	mg/kg	40	79	17	52	16
Lead	mg/kg	36	34	11	76	28
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	9	8	5	6	3
Zinc	mg/kg	46	61	46	110	31

Acid Extractable metals in soil	UNITS	55523-46	55523-47	55523-48	55523-51	55523-52
Our Reference:	-----	13/0.6	14/0.1	14/0.4	15/0-0.15	15/0.2
Your Reference	-----					
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	6	<4	6	7	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	14	4	17	16	16
Copper	mg/kg	19	180	46	68	22
Lead	mg/kg	36	8	29	90	62
Mercury	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Nickel	mg/kg	7	7	9	9	7
Zinc	mg/kg	39	47	62	160	180

Acid Extractable metals in soil	UNITS	55523-59	55523-60	55523-63	55523-64	55523-66
Our Reference:	-----	16/0.1	16/0.6	17/0.1	17/0.5	18/0.5
Your Reference	-----					
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	9	6	<4	<4	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	14	10	6	2	2
Copper	mg/kg	23	12	71	370	210
Lead	mg/kg	180	17	12	8	7
Mercury	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	6	6	6	6
Zinc	mg/kg	85	18	49	49	38

Acid Extractable metals in soil	UNITS	55523-67	55523-68	55523-69	55523-71	55523-73
Our Reference:	-----	18/0.8	19/0.1	19/0.6	19/1.9-2	21/0.6
Your Reference	-----					
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	7	9	<4	9	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	12	7	2	13	5
Copper	mg/kg	31	16	4	26	230
Lead	mg/kg	70	24	<1	13	7
Mercury	mg/kg	0.2	0.2	<0.1	0.3	<0.1
Nickel	mg/kg	7	7	2	9	8
Zinc	mg/kg	54	58	4	75	56

Acid Extractable metals in soil	UNITS	55523-76	55523-77	55523-78	55523-79	55523-80
Our Reference:	-----	22/0.1	22/0.55	23/0.1	23/0.5	23/1.0
Your Reference	-----					
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	<4	6	<4	<4	5
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	3	22	2	3	18
Copper	mg/kg	260	11	260	200	100
Lead	mg/kg	4	10	4	6	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	1	7	6	6
Zinc	mg/kg	43	12	39	37	46

Acid Extractable metals in soil	UNITS	55523-81	55523-82	55523-83	55523-84	55523-85
Our Reference:	-----	24/0.2	24/0.4-0.65	26/0.1	26/0.5	BD1
Your Reference	-----					
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	<4	6	<4	6	5
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	3	19	3	15	39
Copper	mg/kg	74	47	210	59	26
Lead	mg/kg	3	74	6	16	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	4	7	5	11
Zinc	mg/kg	16	39	39	58	86

Acid Extractable metals in soil	UNITS	55523-86	55523-87	55523-90	55523-91
Our Reference:	-----	BD2	BD3	BD6	BD7
Your Reference	-----				
Type of sample	-----	Soil	Soil	Soil	Soil
Date digested	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Arsenic	mg/kg	8	<4	<4	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	7	6	6	3
Copper	mg/kg	24	78	220	250
Lead	mg/kg	22	12	15	4
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	6	3	7
Zinc	mg/kg	55	49	34	40

Moisture						
Our Reference:	UNITS	55523-1	55523-2	55523-3	55523-5	55523-6
Your Reference	-----	1/0.2	1/0.5	1/0.6	2/01	2/0.2
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	13	17	10	18	23

Moisture						
Our Reference:	UNITS	55523-7	55523-9	55523-10	55523-11	55523-13
Your Reference	-----	2/0.5-0.6	3/0.1	3/0.2	3/0.5-0.6	3/0.9-1.0
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	22	21	18	13	18

Moisture						
Our Reference:	UNITS	55523-15	55523-16	55523-17	55523-20	55523-21
Your Reference	-----	4/0.1	4/0.3	4/0.5	5/0.1	5/0.5
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	13	5.5	18	4.5	13

Moisture						
Our Reference:	UNITS	55523-23	55523-24	55523-26	55523-28	55523-31
Your Reference	-----	5/1.0-1.1	6/0.2	6/1.0-1.45	7/0.3	9/0.1
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	19	4.4	19	11	7.1

Moisture						
Our Reference:	UNITS	55523-35	55523-36	55523-37	55523-38	55523-39
Your Reference	-----	10/0.1	10/0.3	10/0.5	11/0.5	11/1.4-1.5
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	5.5	7.0	7.6	25	23

Moisture						
Our Reference:	UNITS	55523-40	55523-41	55523-42	55523-44	55523-45
Your Reference	-----	12/0.25	12/0.4	12/0.65	13/0.0-0.1	13/0.3
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	11	8.2	27	13	9.3

Moisture						
Our Reference:	UNITS	55523-46	55523-47	55523-48	55523-51	55523-52
Your Reference	-----	13/0.6	14/0.1	14/0.4	15/0-0.15	15/0.2
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	16	4.7	15	19	18

Moisture						
Our Reference:	UNITS	55523-59	55523-60	55523-63	55523-64	55523-66
Your Reference	-----	16/0.1	16/0.6	17/0.1	17/0.5	18/0.5
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	17	20	12	4.6	4.7

Moisture						
Our Reference:	UNITS	55523-67	55523-68	55523-69	55523-71	55523-73
Your Reference	-----	18/0.8	19/0.1	19/0.6	19/1.9-2	21/0.6
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	11	14	3.6	16	6.1

Moisture						
Our Reference:	UNITS	55523-76	55523-77	55523-78	55523-79	55523-80
Your Reference	-----	22/0.1	22/0.55	23/0.1	23/0.5	23/1.0
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	5.4	15	6.5	6.3	17

Moisture						
Our Reference:	UNITS	55523-81	55523-82	55523-83	55523-84	55523-85
Your Reference	-----	24/0.2	24/0.4-0.65	26/0.1	26/0.5	BD1
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	11	22	5.5	10	14

Moisture						
Our Reference:	UNITS	55523-86	55523-87	55523-90	55523-91	55523-92
Your Reference	-----	BD2	BD3	BD6	BD7	TB1 4/5/11
Type of sample	-----	Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	15	11	5.3	4.9	<0.1

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Moisture Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-93 TB24/5/11 Soil	55523-94 TB35/5/11 Soil	55523-95 TB46/5/11 Soil	55523-96 TB56/5/11 Soil	55523-97 TB66/5/11 Soil
Date prepared	-	17/05/2011	17/05/2011	17/05/2011	17/05/2011	17/05/2011
Date analysed	-	18/05/2011	18/05/2011	18/05/2011	18/05/2011	18/05/2011
Moisture	%	1.5	0.9	1.2	1.3	1.6

Asbestos ID - soils Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-3 1/0.6 Soil	55523-5 2/01 Soil	55523-9 3/0.1 Soil	55523-15 4/0.1 Soil	55523-20 5/0.1 Soil
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Sample mass tested	g	Approx 50g	Approx 50g	Approx 40g	Approx 60g	Approx 60g
Sample Description	-	Soil & Rocks	Soil & Rocks	Soil & Rocks	Soil & Rocks	Soil & Rocks
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-24 6/0.2 Soil	55523-28 7/0.3 Soil	55523-31 9/0.1 Soil	55523-35 10/0.1 Soil	55523-38 11/0.5 Soil
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Sample mass tested	g	Approx 30	Approx 80g	Approx 80g	Approx 80g	Approx 40g
Sample Description	-	Soil	Soil & Rocks	Soil & Rocks	Soil & Rocks	Soil & Rocks
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-40 12/0.25 Soil	55523-41 12/0.4 Soil	55523-45 13/0.3 Soil	55523-47 14/0.1 Soil	55523-51 15/0-0.15 Soil
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Sample mass tested	g	Approx 50g	Approx 40g	Approx 40g	Approx 60g	Approx 35g
Sample Description	-	Soil & Rocks	Soil & Rocks	Soil	Soil & Rocks	Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

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Asbestos ID - soils Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-59 16/0.1 Soil	55523-63 17/0.1 Soil	55523-66 18/0.5 Soil	55523-68 19/0.1 Soil	55523-73 21/0.6 Soil
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Sample mass tested	g	Approx 40g	Approx 40g	Approx 80g	Approx 70g	Approx 70g
Sample Description	-	Soil & Rocks	Soil & Rocks	Soil & Rocks	Soil	Soil & Rocks
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-76 22/0.1 Soil	55523-80 23/1.0 Soil	55523-82 24/0.4-0.65 Soil	55523-84 26/0.5 Soil
Date analysed	-	20/05/2011	20/05/2011	20/05/2011	20/05/2011
Sample mass tested	g	Approx 70g	Approx 40g	Approx 45g	Approx 55g
Sample Description	-	Soil & Rocks	Soil & Rocks	Soil & Rocks	Soil & Rocks
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

MethodID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Inorg-030	Total Phenolics - determined colorimetrically following disitillation, based upon APHA 21st ED 5530 D.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
ASB-001	Asbestos ID - Qualitative identification of asbestos type fibres in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques.

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			17/05/2011	55523-3	17/05/2011 17/05/2011	LCS-4	17/05/2011
Date analysed	-			17/05/2011	55523-3	17/05/2011 17/05/2011	LCS-4	17/05/2011
vTRHC ₆ - C ₉	mg/kg	25	Org-016	<25	55523-3	<25 <25	LCS-4	89%
Benzene	mg/kg	0.2	Org-016	<0.2	55523-3	<0.2 <0.2	LCS-4	77%
Toluene	mg/kg	0.5	Org-016	<0.5	55523-3	<0.5 <0.5	LCS-4	83%
Ethylbenzene	mg/kg	1	Org-016	<1	55523-3	<1 <1	LCS-4	93%
m+p-xylene	mg/kg	2	Org-016	<2	55523-3	<2 <2	LCS-4	95%
o-Xylene	mg/kg	1	Org-016	<1	55523-3	<1 <1	LCS-4	96%
Surrogate aaa-Trifluorotoluene	%		Org-016	106	55523-3	97 101 RPD: 4	LCS-4	101%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTRH in Soil (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			17/05/2011	55523-3	17/05/2011 17/05/2011	LCS-4	17/05/2011
Date analysed	-			18/05/2011	55523-3	18/05/2011 18/05/2011	LCS-4	17/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	55523-3	<50 <50	LCS-4	84%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	55523-3	<100 <100	LCS-4	96%
TRHC ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	55523-3	<100 <100	LCS-4	94%
Surrogate o-Terphenyl	%		Org-003	91	55523-3	90 91 RPD: 1	LCS-4	91%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			17/05/2011	55523-3	17/05/2011 17/05/2011	LCS-4	17/05/2011
Date analysed	-			21/05/2011	55523-3	20/05/2011 20/05/2011	LCS-4	21/05/2011
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 0.1	LCS-4	96%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	LCS-4	103%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	LCS-4	104%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	LCS-4	101%
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	LCS-4	103%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	LCS-4	111%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	55523-3	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	55523-3	<0.05 <0.05	LCS-4	112%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	115	55523-3	115 113 RPD: 2	LCS-4	113%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			17/05/2011	55523-3	17/05/2011 17/05/2011	LCS-4	17/05/2011
Date analysed	-			18/05/2011	55523-3	18/05/2011 18/05/2011	LCS-4	18/05/2011
HCB	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	94%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	91%
Heptachlor	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	81%
delta-BHC	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	88%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	102%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	99%
Dieldrin	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	96%
Endrin	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	82%
pp-DDD	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	97%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	LCS-4	90%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-005	83	55523-3	105 78 RPD: 30	LCS-4	82%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			17/05/2011	55523-3	17/05/2011 17/05/2011	LCS-4	17/05/2011
Date analysed	-			17/05/2011	55523-3	18/05/2011 18/05/2011	LCS-4	18/05/2011
Diazinon	mg/kg	0.1	Org-008	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	0.1	Org-008	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	0.1	Org-008	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	55523-3	<0.1 <0.1	LCS-4	91%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	55523-3	<0.1 <0.1	LCS-4	85%
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	55523-3	<0.1 <0.1	LCS-4	82%
Surrogate TCLMX	%		Org-008	83	55523-3	105 78 RPD: 30	LCS-4	78%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			17/05/2011	55523-3	17/05/2011 17/05/2011	LCS-4	17/05/2011
Date analysed	-			17/05/2011	55523-3	18/05/2011 18/05/2011	LCS-4	17/05/2011
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	0.1	Org-006	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	55523-3	<0.1 <0.1	LCS-4	99%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	55523-3	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	83	55523-3	105 78 RPD: 30	LCS-4	90%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Total Phenolics in Soil						Base II Duplicate II %RPD		
Date extracted	-			17/05/2011	55523-3	17/05/2011 17/05/2011	LCS-1	17/05/2011
Date analysed	-			19/05/2011	55523-3	19/05/2011 19/05/2011	LCS-1	19/05/2011
Total Phenolics (as Phenol)	mg/kg	5	Inorg-030	<5	55523-3	<5 <5	LCS-1	94%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			17/05/2011	55523-3	17/05/2011 17/05/2011	LCS-1	17/05/2011
Date analysed	-			18/05/2011	55523-3	18/05/2011 18/05/2011	LCS-1	18/05/2011
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	55523-3	<4 <4	LCS-1	102%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base Duplicate %RPD		
Cadmium	mg/kg	0.5	Metals-020 ICP-AES	<0.5	55523-3	<0.5 <0.5	LCS-1	106%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	55523-3	11 13 RPD: 17	LCS-1	106%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	55523-3	38 45 RPD: 17	LCS-1	107%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	55523-3	3 3 RPD: 0	LCS-1	103%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	55523-3	<0.1 <0.1	LCS-1	89%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	55523-3	6 6 RPD: 0	LCS-1	106%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	55523-3	10 12 RPD: 18	LCS-1	106%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank				
Moisture								
Date prepared	-			17/05/2011				
Date analysed	-			18/05/2011				
Moisture	%	0.1	Inorg-008	<0.1				
QUALITYCONTROL	UNITS	PQL	METHOD	Blank				
Asbestos ID - soils								
Date analysed	-			[NT]				
QUALITYCONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery			
vTRH & BTEX in Soil			Base + Duplicate + %RPD					
Date extracted	-	55523-20	17/05/2011 17/05/2011	LCS-5	17/05/2011			
Date analysed	-	55523-20	17/05/2011 17/05/2011	LCS-5	17/05/2011			
vTRHC ₆ - C ₉	mg/kg	55523-20	<25 <25	LCS-5	88%			
Benzene	mg/kg	55523-20	<0.2 <0.2	LCS-5	79%			
Toluene	mg/kg	55523-20	<0.5 <0.5	LCS-5	84%			
Ethylbenzene	mg/kg	55523-20	<1 <1	LCS-5	94%			
m+p-xylene	mg/kg	55523-20	<2 <2	LCS-5	91%			
o-Xylene	mg/kg	55523-20	<1 <1	LCS-5	92%			
Surrogate aaa-Trifluorotoluene	%	55523-20	96 93 RPD: 3	LCS-5	109%			

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QUALITYCONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-20	17/05/2011 17/05/2011	LCS-5	17/05/2011
Date analysed	-	55523-20	18/05/2011 18/05/2011	LCS-5	17/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	55523-20	<50 <50	LCS-5	85%
TRHC ₁₅ - C ₂₈	mg/kg	55523-20	<100 <100	LCS-5	96%
TRHC ₂₉ - C ₃₆	mg/kg	55523-20	<100 <100	LCS-5	93%
Surrogate o-Terphenyl	%	55523-20	91 90 RPD: 1	LCS-5	90%
QUALITYCONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-20	17/05/2011 17/05/2011	LCS-5	17/05/2011
Date analysed	-	55523-20	20/05/2011 20/05/2011	LCS-5	21/05/2011
Naphthalene	mg/kg	55523-20	<0.1 <0.1	LCS-5	98%
Acenaphthylene	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	55523-20	<0.1 <0.1	LCS-5	105%
Phenanthrene	mg/kg	55523-20	<0.1 <0.1	LCS-5	104%
Anthracene	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	55523-20	<0.1 <0.1	LCS-5	100%
Pyrene	mg/kg	55523-20	<0.1 <0.1	LCS-5	102%
Benzo(a)anthracene	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	55523-20	<0.1 <0.1	LCS-5	113%
Benzo(b+k)fluoranthene	mg/kg	55523-20	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	55523-20	<0.05 <0.05	LCS-5	101%
Indeno(1,2,3-c,d)pyrene	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl- d ₁₄	%	55523-20	114 120 RPD: 5	LCS-5	110%

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QUALITYCONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-20	17/05/2011 17/05/2011	LCS-5	17/05/2011
Date analysed	-	55523-20	18/05/2011 18/05/2011	LCS-5	18/05/2011
HCB	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	55523-20	<0.1 <0.1	LCS-5	94%
gamma-BHC	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	55523-20	<0.1 <0.1	LCS-5	90%
Heptachlor	mg/kg	55523-20	<0.1 <0.1	LCS-5	81%
delta-BHC	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	55523-20	<0.1 <0.1	LCS-5	87%
Heptachlor Epoxide	mg/kg	55523-20	<0.1 <0.1	LCS-5	101%
gamma-Chlordane	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	55523-20	<0.1 <0.1	LCS-5	99%
Dieldrin	mg/kg	55523-20	<0.1 <0.1	LCS-5	95%
Endrin	mg/kg	55523-20	<0.1 <0.1	LCS-5	81%
pp-DDD	mg/kg	55523-20	<0.1 <0.1	LCS-5	96%
Endosulfan II	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	55523-20	<0.1 <0.1	LCS-5	89%
Methoxychlor	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-20	81 82 RPD: 1	LCS-5	82%

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QUALITYCONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-20	17/05/2011 17/05/2011	LCS-5	17/05/2011
Date analysed	-	55523-20	18/05/2011 18/05/2011	LCS-5	18/05/2011
Diazinon	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos-methyl	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	55523-20	<0.1 <0.1	LCS-5	83%
Fenitrothion	mg/kg	55523-20	<0.1 <0.1	LCS-5	78%
Bromophos-ethyl	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	55523-20	<0.1 <0.1	LCS-5	80%
Surrogate TCLMX	%	55523-20	81 82 RPD: 1	LCS-5	70%
QUALITYCONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-20	17/05/2011 17/05/2011	LCS-5	17/05/2011
Date analysed	-	55523-20	18/05/2011 18/05/2011	LCS-5	18/05/2011
Arochlor 1016	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	55523-20	<0.1 <0.1	LCS-5	99%
Arochlor 1260	mg/kg	55523-20	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-20	81 82 RPD: 1	LCS-5	92%
QUALITYCONTROL Total Phenolics in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-40	17/05/2011 17/05/2011	LCS-2	17/05/2011
Date analysed	-	55523-40	19/05/2011 19/05/2011	LCS-2	19/05/2011
Total Phenolics (as Phenol)	mg/kg	55523-40	<5 <5	LCS-2	93%
QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	55523-20	17/05/2011 17/05/2011	LCS-2	17/05/2011
Date analysed	-	55523-20	18/05/2011 18/05/2011	LCS-2	18/05/2011
Arsenic	mg/kg	55523-20	<4 <4	LCS-2	100%
Cadmium	mg/kg	55523-20	<0.5 <0.5	LCS-2	102%
Chromium	mg/kg	55523-20	3 3 RPD: 0	LCS-2	103%
Copper	mg/kg	55523-20	190 160 RPD: 17	LCS-2	103%
Lead	mg/kg	55523-20	4 3 RPD: 29	LCS-2	99%
Mercury	mg/kg	55523-20	<0.1 <0.1	LCS-2	93%

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QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Nickel	mg/kg	55523-20	6 6 RPD: 0	LCS-2	104%
Zinc	mg/kg	55523-20	37 35 RPD: 6	LCS-2	102%
QUALITYCONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-40	17/05/2011 17/05/2011	LCS-6	17/05/2011
Date analysed	-	55523-40	17/05/2011 17/05/2011	LCS-6	17/05/2011
vTRHC ₆ - C ₉	mg/kg	55523-40	<25 <25	LCS-6	88%
Benzene	mg/kg	55523-40	<0.2 <0.2	LCS-6	77%
Toluene	mg/kg	55523-40	<0.5 <0.5	LCS-6	84%
Ethylbenzene	mg/kg	55523-40	<1 <1	LCS-6	94%
m+p-xylene	mg/kg	55523-40	<2 <2	LCS-6	93%
o-Xylene	mg/kg	55523-40	<1 <1	LCS-6	94%
Surrogate aaa- Trifluorotoluene	%	55523-40	100 109 RPD: 9	LCS-6	96%
QUALITYCONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-40	17/05/2011 17/05/2011	LCS-6	17/05/2011
Date analysed	-	55523-40	18/05/2011 18/05/2011	LCS-6	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	55523-40	<50 <50	LCS-6	84%
TRHC ₁₅ - C ₂₈	mg/kg	55523-40	<100 <100	LCS-6	94%
TRHC ₂₉ - C ₃₆	mg/kg	55523-40	<100 <100	LCS-6	93%
Surrogate o-Terphenyl	%	55523-40	90 88 RPD: 2	LCS-6	88%
QUALITYCONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-40	17/05/2011 17/05/2011	LCS-6	17/05/2011
Date analysed	-	55523-40	20/05/2011 20/05/2011	LCS-6	21/05/2011
Naphthalene	mg/kg	55523-40	<0.1 <0.1	LCS-6	97%
Acenaphthylene	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	55523-40	<0.1 <0.1	LCS-6	102%
Phenanthrene	mg/kg	55523-40	<0.1 <0.1	LCS-6	103%
Anthracene	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	55523-40	<0.1 <0.1	LCS-6	99%
Pyrene	mg/kg	55523-40	<0.1 <0.1	LCS-6	101%
Benzo(a)anthracene	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	55523-40	<0.1 <0.1	LCS-6	112%
Benzo(b+k)fluoranthene	mg/kg	55523-40	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	55523-40	<0.05 0.05	LCS-6	102%
Indeno(1,2,3-c,d)pyrene	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]

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QUALITYCONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Dibenzo(a,h)anthracene	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl- d14	%	55523-40	111 113 RPD: 2	LCS-6	115%
QUALITYCONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-40	17/05/2011 17/05/2011	LCS-6	17/05/2011
Date analysed	-	55523-40	18/05/2011 18/05/2011	LCS-6	18/05/2011
HCB	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	55523-40	<0.1 <0.1	LCS-6	81%
gamma-BHC	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	55523-40	<0.1 <0.1	LCS-6	83%
Heptachlor	mg/kg	55523-40	<0.1 <0.1	LCS-6	68%
delta-BHC	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	55523-40	<0.1 <0.1	LCS-6	77%
Heptachlor Epoxide	mg/kg	55523-40	<0.1 <0.1	LCS-6	88%
gamma-Chlordane	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	55523-40	<0.1 <0.1	LCS-6	85%
Dieldrin	mg/kg	55523-40	<0.1 <0.1	LCS-6	80%
Endrin	mg/kg	55523-40	<0.1 <0.1	LCS-6	67%
pp-DDD	mg/kg	55523-40	<0.1 <0.1	LCS-6	76%
Endosulfan II	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	55523-40	<0.1 <0.1	LCS-6	76%
Methoxychlor	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-40	79 86 RPD: 8	LCS-6	72%

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QUALITYCONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-40	17/05/2011 17/05/2011	LCS-6	17/05/2011
Date analysed	-	55523-40	18/05/2011 18/05/2011	LCS-6	17/05/2011
Diazinon	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos-methyl	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	55523-40	<0.1 <0.1	LCS-6	83%
Fenitrothion	mg/kg	55523-40	<0.1 <0.1	LCS-6	78%
Bromophos-ethyl	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	55523-40	<0.1 <0.1	LCS-6	80%
Surrogate TCLMX	%	55523-40	79 86 RPD: 8	LCS-6	70%
QUALITYCONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-40	17/05/2011 17/05/2011	LCS-6	17/05/2011
Date analysed	-	55523-40	18/05/2011 18/05/2011	LCS-6	17/05/2011
Arochlor 1016	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	55523-40	<0.1 <0.1	LCS-6	100%
Arochlor 1260	mg/kg	55523-40	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-40	79 86 RPD: 8	LCS-6	81%
QUALITYCONTROL Total Phenolics in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-76	17/05/2011 17/05/2011	55523-5	17/05/2011
Date analysed	-	55523-76	19/05/2011 19/05/2011	55523-5	19/05/2011
Total Phenolics (as Phenol)	mg/kg	55523-76	<5 <5	55523-5	117%
QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	55523-40	17/05/2011 17/05/2011	LCS-3	17/05/2011
Date analysed	-	55523-40	18/05/2011 18/05/2011	LCS-3	18/05/2011
Arsenic	mg/kg	55523-40	<4 <4	LCS-3	100%
Cadmium	mg/kg	55523-40	<0.5 <0.5	LCS-3	101%
Chromium	mg/kg	55523-40	24 26 RPD: 8	LCS-3	102%
Copper	mg/kg	55523-40	40 44 RPD: 10	LCS-3	101%
Lead	mg/kg	55523-40	36 34 RPD: 6	LCS-3	108%
Mercury	mg/kg	55523-40	<0.1 <0.1	LCS-3	92%

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QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Nickel	mg/kg	55523-40	9 7 RPD: 25	LCS-3	103%
Zinc	mg/kg	55523-40	46 46 RPD: 0	LCS-3	103%
QUALITYCONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-59	17/05/2011 17/05/2011	55523-5	17/05/2011
Date analysed	-	55523-59	17/05/2011 17/05/2011	55523-5	17/05/2011
vTRHC ₆ - C ₉	mg/kg	55523-59	<25 <25	55523-5	76%
Benzene	mg/kg	55523-59	<0.2 <0.2	55523-5	65%
Toluene	mg/kg	55523-59	<0.5 <0.5	55523-5	71%
Ethylbenzene	mg/kg	55523-59	<1 <1	55523-5	80%
m+p-xylene	mg/kg	55523-59	<2 <2	55523-5	82%
o-Xylene	mg/kg	55523-59	<1 <1	55523-5	83%
Surrogate aaa- Trifluorotoluene	%	55523-59	103 97 RPD: 6	55523-5	90%
QUALITYCONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-59	17/05/2011 17/05/2011	55523-5	17/05/2011
Date analysed	-	55523-59	18/05/2011 18/05/2011	55523-5	17/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	55523-59	<50 <50	55523-5	86%
TRHC ₁₅ - C ₂₈	mg/kg	55523-59	<100 <100	55523-5	100%
TRHC ₂₉ - C ₃₆	mg/kg	55523-59	<100 <100	55523-5	83%
Surrogate o-Terphenyl	%	55523-59	88 87 RPD: 1	55523-5	96%
QUALITYCONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-59	17/05/2011 17/05/2011	55523-5	17/05/2011
Date analysed	-	55523-59	20/05/2011 20/05/2011	55523-5	21/05/2011
Naphthalene	mg/kg	55523-59	<0.1 <0.1	55523-5	90%
Acenaphthylene	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	55523-59	<0.1 <0.1	55523-5	103%
Phenanthrene	mg/kg	55523-59	0.2 0.1 RPD: 67	55523-5	102%
Anthracene	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	55523-59	0.8 0.8 RPD: 0	55523-5	99%
Pyrene	mg/kg	55523-59	0.6 0.6 RPD: 0	55523-5	104%
Benzo(a)anthracene	mg/kg	55523-59	0.4 0.4 RPD: 0	[NR]	[NR]
Chrysene	mg/kg	55523-59	0.5 0.5 RPD: 0	55523-5	108%
Benzo(b+k)fluoranthene	mg/kg	55523-59	0.7 0.8 RPD: 13	[NR]	[NR]
Benzo(a)pyrene	mg/kg	55523-59	0.38 0.41 RPD: 8	55523-5	104%
Indeno(1,2,3-c,d)pyrene	mg/kg	55523-59	0.2 0.2 RPD: 0	[NR]	[NR]

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QUALITYCONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Dibenzo(a,h)anthracene	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	55523-59	0.2 0.2 RPD: 0	[NR]	[NR]
Surrogate p-Terphenyl- d14	%	55523-59	117 114 RPD: 3	55523-5	110%
QUALITYCONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-59	17/05/2011 17/05/2011	55523-5	17/05/2011
Date analysed	-	55523-59	18/05/2011 18/05/2011	55523-5	17/05/2011
HCB	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	55523-59	<0.1 <0.1	55523-5	80%
gamma-BHC	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	55523-59	<0.1 <0.1	55523-5	81%
Heptachlor	mg/kg	55523-59	<0.1 <0.1	55523-5	68%
delta-BHC	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	55523-59	<0.1 <0.1	55523-5	75%
Heptachlor Epoxide	mg/kg	55523-59	<0.1 <0.1	55523-5	86%
gamma-Chlordane	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	55523-59	<0.1 <0.1	55523-5	80%
Dieldrin	mg/kg	55523-59	<0.1 <0.1	55523-5	76%
Endrin	mg/kg	55523-59	<0.1 <0.1	55523-5	68%
pp-DDD	mg/kg	55523-59	<0.1 <0.1	55523-5	75%
Endosulfan II	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	55523-59	<0.1 <0.1	55523-5	75%
Methoxychlor	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-59	69 72 RPD: 4	55523-5	70%

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QUALITYCONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-59	17/05/2011 17/05/2011	55523-5	17/05/2011
Date analysed	-	55523-59	18/05/2011 18/05/2011	55523-5	17/05/2011
Diazinon	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos-methyl	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	55523-59	<0.1 <0.1	55523-5	85%
Fenitrothion	mg/kg	55523-59	<0.1 <0.1	55523-5	75%
Bromophos-ethyl	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	55523-59	<0.1 <0.1	55523-5	82%
Surrogate TCLMX	%	55523-59	69 72 RPD: 4	55523-5	79%
QUALITYCONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-59	17/05/2011 17/05/2011	55523-5	17/05/2011
Date analysed	-	55523-59	18/05/2011 18/05/2011	55523-5	17/05/2011
Arochlor 1016	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	55523-59	<0.1 <0.1	55523-5	104%
Arochlor 1260	mg/kg	55523-59	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-59	69 72 RPD: 4	55523-5	91%
QUALITYCONTROL Total Phenolics in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	55523-80	17/05/2011
Date analysed	-	[NT]	[NT]	55523-80	19/05/2011
Total Phenolics (as Phenol)	mg/kg	[NT]	[NT]	55523-80	79%
QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	55523-59	17/05/2011 17/05/2011	55523-5	17/05/2011
Date analysed	-	55523-59	18/05/2011 18/05/2011	55523-5	18/05/2011
Arsenic	mg/kg	55523-59	9 8 RPD: 12	55523-5	108%
Cadmium	mg/kg	55523-59	<0.5 <0.5	55523-5	100%
Chromium	mg/kg	55523-59	14 14 RPD: 0	55523-5	104%
Copper	mg/kg	55523-59	23 24 RPD: 4	55523-5	108%
Lead	mg/kg	55523-59	180 170 RPD: 6	55523-5	104%
Mercury	mg/kg	55523-59	0.3 0.3 RPD: 0	55523-5	92%

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QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Nickel	mg/kg	55523-59	7 7 RPD: 0	55523-5	102%
Zinc	mg/kg	55523-59	85 70 RPD: 19	55523-5	113%
QUALITYCONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-80	17/05/2011 17/05/2011	55523-41	17/05/2011
Date analysed	-	55523-80	18/05/2011 18/05/2011	55523-41	17/05/2011
vTRHC ₆ - C ₉	mg/kg	55523-80	<25 <25	55523-41	93%
Benzene	mg/kg	55523-80	<0.2 <0.2	55523-41	83%
Toluene	mg/kg	55523-80	<0.5 <0.5	55523-41	89%
Ethylbenzene	mg/kg	55523-80	<1 <1	55523-41	100%
m+p-xylene	mg/kg	55523-80	<2 <2	55523-41	96%
o-Xylene	mg/kg	55523-80	<1 <1	55523-41	97%
Surrogate aaa- Trifluorotoluene	%	55523-80	96 84 RPD: 13	55523-41	108%
QUALITYCONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-80	17/05/2011 17/05/2011	55523-41	17/05/2011
Date analysed	-	55523-80	18/05/2011 18/05/2011	55523-41	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	55523-80	<50 <50	55523-41	88%
TRHC ₁₅ - C ₂₈	mg/kg	55523-80	<100 <100	55523-41	99%
TRHC ₂₉ - C ₃₆	mg/kg	55523-80	<100 <100	55523-41	88%
Surrogate o-Terphenyl	%	55523-80	87 87 RPD: 0	55523-41	95%
QUALITYCONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-80	17/05/2011 17/05/2011	55523-41	17/05/2011
Date analysed	-	55523-80	20/05/2011 20/05/2011	55523-41	21/05/2011
Naphthalene	mg/kg	55523-80	<0.1 <0.1	55523-41	95%
Acenaphthylene	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	55523-80	<0.1 <0.1	55523-41	105%
Phenanthrene	mg/kg	55523-80	<0.1 <0.1	55523-41	103%
Anthracene	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	55523-80	<0.1 <0.1	55523-41	99%
Pyrene	mg/kg	55523-80	<0.1 <0.1	55523-41	105%
Benzo(a)anthracene	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	55523-80	<0.1 <0.1	55523-41	109%
Benzo(b+k)fluoranthene	mg/kg	55523-80	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	55523-80	<0.05 <0.05	55523-41	108%
Indeno(1,2,3-c,d)pyrene	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]

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QUALITYCONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Dibenzo(a,h)anthracene	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl- d14	%	55523-80	122 119 RPD: 2	55523-41	114%
QUALITYCONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-80	17/05/2011 17/05/2011	55523-41	17/05/2011
Date analysed	-	55523-80	18/05/2011 18/05/2011	55523-41	18/05/2011
HCB	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	55523-80	<0.1 <0.1	55523-41	99%
gamma-BHC	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	55523-80	<0.1 <0.1	55523-41	94%
Heptachlor	mg/kg	55523-80	<0.1 <0.1	55523-41	82%
delta-BHC	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	55523-80	<0.1 <0.1	55523-41	91%
Heptachlor Epoxide	mg/kg	55523-80	<0.1 <0.1	55523-41	105%
gamma-Chlordane	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	55523-80	<0.1 <0.1	55523-41	103%
Dieldrin	mg/kg	55523-80	<0.1 <0.1	55523-41	99%
Endrin	mg/kg	55523-80	<0.1 <0.1	55523-41	84%
pp-DDD	mg/kg	55523-80	<0.1 <0.1	55523-41	100%
Endosulfan II	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	55523-80	<0.1 <0.1	55523-41	89%
Methoxychlor	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-80	70 73 RPD: 4	55523-41	86%

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QUALITYCONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-80	17/05/2011 17/05/2011	55523-41	17/05/2011
Date analysed	-	55523-80	18/05/2011 18/05/2011	55523-41	18/05/2011
Diazinon	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos-methyl	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	55523-80	<0.1 <0.1	55523-41	95%
Fenitrothion	mg/kg	55523-80	<0.1 <0.1	55523-41	83%
Bromophos-ethyl	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	55523-80	<0.1 <0.1	55523-41	84%
Surrogate TCLMX	%	55523-80	70 73 RPD: 4	55523-41	82%
QUALITYCONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-80	17/05/2011 17/05/2011	55523-41	17/05/2011
Date analysed	-	55523-80	18/05/2011 18/05/2011	55523-41	18/05/2011
Arochlor 1016	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	55523-80	<0.1 <0.1	55523-41	104%
Arochlor 1260	mg/kg	55523-80	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-80	70 73 RPD: 4	55523-41	91%
QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	55523-80	17/05/2011 17/05/2011	55523-41	17/05/2011
Date analysed	-	55523-80	18/05/2011 18/05/2011	55523-41	18/05/2011
Arsenic	mg/kg	55523-80	5 5 RPD: 0	55523-41	111%
Cadmium	mg/kg	55523-80	<0.5 <0.5	55523-41	112%
Chromium	mg/kg	55523-80	18 17 RPD: 6	55523-41	100%
Copper	mg/kg	55523-80	100 140 RPD: 33	55523-41	108%
Lead	mg/kg	55523-80	14 15 RPD: 7	55523-41	82%
Mercury	mg/kg	55523-80	<0.1 <0.1	55523-41	88%
Nickel	mg/kg	55523-80	6 8 RPD: 29	55523-41	106%
Zinc	mg/kg	55523-80	46 53 RPD: 14	55523-41	102%

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QUALITYCONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-84	17/05/2011 17/05/2011	55523-82	17/05/2011
Date analysed	-	55523-84	18/05/2011 18/05/2011	55523-82	18/05/2011
vTRHC ₆ - C ₉	mg/kg	55523-84	<25 <25	55523-82	69%
Benzene	mg/kg	55523-84	<0.2 <0.2	55523-82	61%
Toluene	mg/kg	55523-84	<0.5 <0.5	55523-82	65%
Ethylbenzene	mg/kg	55523-84	<1 <1	55523-82	73%
m+p-xylene	mg/kg	55523-84	<2 <2	55523-82	72%
o-Xylene	mg/kg	55523-84	<1 <1	55523-82	73%
Surrogate aaa- Trifluorotoluene	%	55523-84	95 72 RPD: 28	55523-82	83%
QUALITYCONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-84	17/05/2011 17/05/2011	55523-82	17/05/2011
Date analysed	-	55523-84	18/05/2011 18/05/2011	55523-82	18/05/2011
TRHC ₁₀ - C ₁₄	mg/kg	55523-84	<50 <50	55523-82	81%
TRHC ₁₅ - C ₂₈	mg/kg	55523-84	<100 <100	55523-82	93%
TRHC ₂₉ - C ₃₆	mg/kg	55523-84	<100 <100	55523-82	90%
Surrogate o-Terphenyl	%	55523-84	89 88 RPD: 1	55523-82	88%
QUALITYCONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-84	17/05/2011 17/05/2011	55523-82	17/05/2011
Date analysed	-	55523-84	20/05/2011 20/05/2011	55523-82	21/05/2011
Naphthalene	mg/kg	55523-84	<0.1 <0.1	55523-82	93%
Acenaphthylene	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	55523-84	<0.1 <0.1	55523-82	103%
Phenanthrene	mg/kg	55523-84	<0.1 <0.1	55523-82	102%
Anthracene	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	55523-84	<0.1 <0.1	55523-82	99%
Pyrene	mg/kg	55523-84	<0.1 <0.1	55523-82	100%
Benzo(a)anthracene	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	55523-84	<0.1 <0.1	55523-82	110%
Benzo(b+k)fluoranthene	mg/kg	55523-84	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	55523-84	<0.05 <0.05	55523-82	102%
Indeno(1,2,3-c,d)pyrene	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl- d ₁₄	%	55523-84	119 118 RPD: 1	55523-82	116%

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QUALITYCONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-84	17/05/2011 17/05/2011	55523-82	17/05/2011
Date analysed	-	55523-84	18/05/2011 18/05/2011	55523-82	17/05/2011
HCB	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	55523-84	<0.1 <0.1	55523-82	80%
gamma-BHC	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	55523-84	<0.1 <0.1	55523-82	81%
Heptachlor	mg/kg	55523-84	<0.1 <0.1	55523-82	68%
delta-BHC	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	55523-84	<0.1 <0.1	55523-82	75%
Heptachlor Epoxide	mg/kg	55523-84	<0.1 <0.1	55523-82	86%
gamma-Chlordane	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	55523-84	<0.1 <0.1	55523-82	80%
Dieldrin	mg/kg	55523-84	<0.1 <0.1	55523-82	76%
Endrin	mg/kg	55523-84	<0.1 <0.1	55523-82	68%
pp-DDD	mg/kg	55523-84	<0.1 <0.1	55523-82	75%
Endosulfan II	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	55523-84	<0.1 <0.1	55523-82	75%
Methoxychlor	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-84	79 73 RPD: 8	55523-82	70%

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QUALITYCONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-84	17/05/2011 17/05/2011	55523-82	17/05/2011
Date analysed	-	55523-84	18/05/2011 18/05/2011	55523-82	17/05/2011
Diazinon	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos-methyl	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	55523-84	<0.1 <0.1	55523-82	93%
Fenitrothion	mg/kg	55523-84	<0.1 <0.1	55523-82	88%
Bromophos-ethyl	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	55523-84	<0.1 <0.1	55523-82	96%
Surrogate TCLMX	%	55523-84	79 73 RPD: 8	55523-82	72%
QUALITYCONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	55523-84	17/05/2011 17/05/2011	55523-82	17/05/2011
Date analysed	-	55523-84	18/05/2011 18/05/2011	55523-82	17/05/2011
Arochlor 1016	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	55523-84	<0.1 <0.1	55523-82	105%
Arochlor 1260	mg/kg	55523-84	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	55523-84	79 73 RPD: 8	55523-82	85%
QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	55523-84	17/05/2011 17/05/2011	55523-82	17/05/2011
Date analysed	-	55523-84	18/05/2011 18/05/2011	55523-82	18/05/2011
Arsenic	mg/kg	55523-84	6 6 RPD: 0	55523-82	103%
Cadmium	mg/kg	55523-84	<0.5 <0.5	55523-82	95%
Chromium	mg/kg	55523-84	15 14 RPD: 7	55523-82	102%
Copper	mg/kg	55523-84	59 83 RPD: 34	55523-82	90%
Lead	mg/kg	55523-84	16 17 RPD: 6	55523-82	83%
Mercury	mg/kg	55523-84	<0.1 <0.1	55523-82	84%
Nickel	mg/kg	55523-84	5 6 RPD: 18	55523-82	98%
Zinc	mg/kg	55523-84	58 61 RPD: 5	55523-82	94%

QUALITYCONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	55523-13	17/05/2011 17/05/2011
Date analysed	-	55523-13	20/05/2011 20/05/2011
Naphthalene	mg/kg	55523-13	<0.1 <0.1
Acenaphthylene	mg/kg	55523-13	<0.1 <0.1
Acenaphthene	mg/kg	55523-13	<0.1 <0.1
Fluorene	mg/kg	55523-13	<0.1 <0.1
Phenanthrene	mg/kg	55523-13	<0.1 <0.1
Anthracene	mg/kg	55523-13	<0.1 <0.1
Fluoranthene	mg/kg	55523-13	<0.1 <0.1
Pyrene	mg/kg	55523-13	<0.1 <0.1
Benzo(a)anthracene	mg/kg	55523-13	<0.1 <0.1
Chrysene	mg/kg	55523-13	<0.1 <0.1
Benzo(b+k)fluoranthene	mg/kg	55523-13	<0.2 <0.2
Benzo(a)pyrene	mg/kg	55523-13	<0.05 <0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	55523-13	<0.1 <0.1
Dibenzo(a,h)anthracene	mg/kg	55523-13	<0.1 <0.1
Benzo(g,h,i)perylene	mg/kg	55523-13	<0.1 <0.1
Surrogate <i>p</i> -Terphenyl- d ₁₄	%	55523-13	112 112 RPD: 0

Report Comments:

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 30-40g of sample in its own container.

Asbestos ID was analysed by Approved Identifier: Paul Ching
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batched of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

Aileen Hie

From: Jane Smalley [Jane.Smalley@douglaspartners.com.au]
Sent: Wednesday, 22 June 2011 02:25 PM
To: Aileen Hie
Cc: Kenton Horsley
Subject: TCLP testing required - ELS report number 55523

55523 B
due 23/6/11
24 hours T/A

Dear Aileen,

Can I please get the following tested on a fasted turnaround.

3/0.5-0.6 (Sample 11) – PAH TCLP
4/0.5 (Sample 17) – LEAD TCLP
16/0.1 (Sample 59) – LEAD TCLP

Thanks

Jane Smalley | Environmental Engineer / Environmental Manager
Douglas Partners Pty Ltd | ABN 75 053 980 117 | www.douglaspartners.com.au
1/1 Luso Drive Unanderra NSW 2526 | PO Box 486 Unanderra NSW 2526
P: 02 4271 1836 | F: 02 4271 1897 | M: 0419 265 232 | E: Jane.Smalley@douglaspartners.com.au

This email is confidential. If you are not the intended recipient, please notify us immediately and be aware that any disclosure, copying, distribution or use of the contents of this information is prohibited. Please note that the company does not make any commitment through emails not confirmed by fax or letter.

22/06/2011



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www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS

55523-B

Client:

Douglas Partners Unanderra
Unit 1, 1 Luso Drive
Unanderra
NSW 2526

Attention: Bethany Seville

Sample log in details:

Your Reference:	<u>48773.05, Wollongong Hospital</u>
No. of samples:	Additional Testing on 3 Soils
Date samples received / completed instructions received	16/05/11 / 22/06/11

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 23/06/11 / 23/06/11

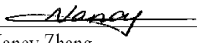
Date of Preliminary Report: Not Issued

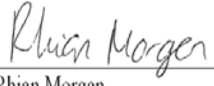
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Results Approved By:


Nancy Zhang
Chemist


Rhian Morgan
Reporting Supervisor

PAHs in TCLP (USEPA 1311) Our Reference: Your Reference Type of sample	UNITS ----- -----	55523-B-11 3/0.5-0.6 Soil
Date extracted	-	23/06/2011
Date analysed	-	23/06/2011
Naphthalene in TCLP	mg/L	<0.001
Acenaphthylene in TCLP	mg/L	<0.001
Acenaphthene in TCLP	mg/L	<0.001
Fluorene in TCLP	mg/L	<0.001
Phenanthrene in TCLP	mg/L	0.001
Anthracene in TCLP	mg/L	<0.001
Fluoranthene in TCLP	mg/L	<0.001
Pyrene in TCLP	mg/L	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001
Chrysene in TCLP	mg/L	<0.001
Benzo(b+k)fluoranthene in TCLP	mg/L	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001
Surrogate p-Terphenyl-d14	%	111

Metals in TCLP USEPA 1311				
Our Reference:	UNITS	55523-B-11	55523-B-17	55523-B-59
Your Reference	-----	3/0.5-0.6	4/0.5	16/0.1
Type of sample	-----	Soil	Soil	Soil
Date extracted	-	23/06/2011	23/06/2011	23/06/2011
Date analysed	-	23/06/2011	23/06/2011	23/06/2011
pH of soil for fluid# determ.	pH units	7.7	8.9	8.6
pH of soil for fluid # determ. (acid)	pH units	1.5	1.5	1.5
Extraction fluid used	-	1	1	1
pH of final Leachate	pH units	4.9	4.9	5.0
Lead in TCLP	mg/L	[NA]	<0.03	<0.03

MethodID	Methodology Summary
Org-012 subset	Leachates are extracted with Dichloromethane and analysed by GC-MS.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311.
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA 21st ED, 4500-H+.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.

Client Reference: 48773.05, Wollongong Hospital

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in TCLP (USEPA 1311)						Base II Duplicate II %RPD		
Date extracted	-			23/06/2011	[NT]	[NT]	LCS-W1	23/06/2011
Date analysed	-			23/06/2011	[NT]	[NT]	LCS-W1	23/06/2011
Naphthalene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W1	79%
Acenaphthylene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Acenaphthene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluorene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W1	93%
Phenanthrene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W1	105%
Anthracene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluoranthene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W1	101%
Pyrene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W1	105%
Benzo(a)anthracene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Chrysene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W1	101%
Benzo(b+k)fluoranthene in TCLP	mg/L	0.002	Org-012 subset	<0.002	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W1	98%
Indeno(1,2,3-c,d)pyrene -TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	103	[NT]	[NT]	LCS-W1	95%

Client Reference: 48773.05, Wollongong Hospital

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals in TCLP USEPA1311						Base II Duplicate II %RPD		
Date extracted	-			23/06/2011	[NT]	[NT]	LCS-1	23/06/2011
Date analysed	-			23/06/2011	[NT]	[NT]	LCS-1	23/06/2011
Lead in TCLP	mg/L	0.03	Metals-020 ICP-AES	<0.03	[NT]	[NT]	LCS-1	102%

Report Comments:

Asbestos ID was analysed by Approved Identifier: Not applicable for this job
Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

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LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.



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www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS

55680

Client:

Douglas Partners Unanderra
Unit 1, 1 Luso Drive
Unanderra
NSW 2526

Attention: Jane Smalley, Kenton Horsley

Sample log in details:

Your Reference:	<u>48773.05, Wollongong Hospital</u>
No. of samples:	2 soils
Date samples received / completed instructions received	19/05/11 / 19/05/11

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 27/05/11 / 26/05/11

Date of Preliminary Report: Not Issued

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Results Approved By:

Matt Mansfield
Approved Signatory

Envirolab Reference: 55680
Revision No: R 00



Chromium Suite Our Reference: Your Reference Type of sample	UNITS ----- -----	55680-1 11/1.0-1.1 Soil	55680-2 11/1.75 Soil
pH _{kd}	pH units	3.4	3.2
s-TAA pH 6.5	%w/w S	0.37	0.17
TAA pH 6.5	moles H ⁺ /t	230	110
Chromium Reducible Sulfur	%w/w	<0.005	<0.005
a-Chromium Reducible Sulfur	moles H ⁺ /t	<3	<3
SHCl	%w/w S	0.022	0.011
SKCl	%w/w S	0.020	0.010
SNAS	%w/w S	<0.005	<0.005
ANC _{BT}	%CaCO ₃	<0.05	<0.05
s-ANC _{BT}	%w/w S	<0.05	<0.05
s-Net Acidity	%w/w S	0.38	0.18
a-Net Acidity	moles H ⁺ /t	240	110
Liming rate	kg CaCO ₃ /t	18	8.3
a-Net Acidity without ANCE	moles H ⁺ /t	240	110
Liming rate without ANCE	kg CaCO ₃ /t	18	8.3

Method ID	Methodology Summary
Inorg-068	Chromium Reducible Sulfur - Hydrogen Sulfide is quantified by iodometric titration after distillation to determine potential acidity. Based on Acid Sulfate Soils Laboratory Methods Guidelines, Version 2.1 - June 2004.

Client Reference: 48773.05, Wollongong Hospital

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Chromium Suite						Base II Duplicate II %RPD		
pH _{kd}	pH units		Inorg-068	5.7	[NT]	[NT]	LCS	101%
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	<0.01	[NT]	[NT]	[NR]	[NR]
TAA pH 6.5	moles H ⁺ /t	5	Inorg-068	<5	[NT]	[NT]	LCS	94%
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	<0.005	[NT]	[NT]	LCS	99%
a-Chromium Reducible Sulfur	moles H ⁺ /t	3	Inorg-068	<3	[NT]	[NT]	[NR]	[NR]
SHCl	%w/w S	0.005	Inorg-068	<0.005	[NT]	[NT]	LCS	104%
SKCl	%w/w S	0.005	Inorg-068	<0.005	[NT]	[NT]	LCS	106%
SNAS	%w/w S	0.005	Inorg-068	<0.005	[NT]	[NT]	[NR]	[NR]
ANC _{BT}	% CaCO ₃	0.05	Inorg-068	<0.05	[NT]	[NT]	[NR]	[NR]
s-ANC _{BT}	%w/w S	0.05	Inorg-068	<0.05	[NT]	[NT]	[NR]	[NR]
s-Net Acidity	%w/w S	0.01	Inorg-068	<0.01	[NT]	[NT]	[NR]	[NR]
a-Net Acidity	moles H ⁺ /t	10	Inorg-068	<10	[NT]	[NT]	[NR]	[NR]
Liming rate	kg CaCO ₃ /t	0.75	Inorg-068	<0.75	[NT]	[NT]	[NR]	[NR]
a-Net Acidity without ANCE	moles H ⁺ /t	10	Inorg-068	<10	[NT]	[NT]	[NR]	[NR]
Liming rate without ANCE	kg CaCO ₃ /t	0.75	Inorg-068	<0.75	[NT]	[NT]	[NR]	[NR]

Report Comments:

Asbestos ID was analysed by Approved Identifier: Not applicable for this job
Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
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www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS

55997

Client:

Douglas Partners Unanderra
Unit 1, 1 Luso Drive
Unanderra
NSW 2526

Attention: Jane Smalley, Kenton Horsley

Sample log in details:

Your Reference: **48773.05, Wollongong Hospital**
No. of samples: 2 waters
Date samples received / completed instructions received 25/05/11 / 25/05/11

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 1/06/11 / 31/05/11

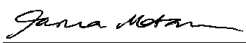
Date of Preliminary Report: Not Issued

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Results Approved By:


Tania Notaras
Manager


Giovanni Agosti
Technical Manager


Nick Sarlamis
Inorganics Supervisor


Jeremy Faircloth
Chemist

EnviroLab Reference: 55997
Revision No: R 00



vTRH & BTEX in Water			
Our Reference:	UNITS	55997-1	55997-2
Your Reference	-----	GW9/240511	BD1/240511
Date Sampled	-----	24/05/2011	24/05/2011
Type of sample		Water	Water
Date extracted	-	27/05/2011	27/05/2011
Date analysed	-	27/05/2011	27/05/2011
TRHC ₆ - C ₉	µg/L	35	24
Benzene	µg/L	<1	<1
Toluene	µg/L	<1	<1
Ethylbenzene	µg/L	<1	<1
m+p-xylene	µg/L	9	8
o-xylene	µg/L	5	5
Surrogate Dibromofluoromethane	%	83	92
Surrogate toluene-d8	%	100	100
Surrogate 4-BFB	%	101	99

sTRH in Water (C10-C36)			
Our Reference:	UNITS	55997-1	55997-2
Your Reference	-----	GW9/240511	BD1/240511
Date Sampled	-----	24/05/2011	24/05/2011
Type of sample		Water	Water
Date extracted	-	27/05/2011	27/05/2011
Date analysed	-	27/05/2011	27/05/2011
TRHC ₁₀ - C ₁₄	µg/L	160	120
TRHC ₁₅ - C ₂₈	µg/L	<100	<100
TRHC ₂₉ - C ₃₆	µg/L	<100	<100
Surrogate o-Terphenyl	%	125	105

PAHs in Water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	55997-1 GW9/240511 24/05/2011 Water	55997-2 BD1/240511 24/05/2011 Water
Date extracted	-	27/05/2011	27/05/2011
Date analysed	-	28/05/2011	28/05/2011
Naphthalene	µg/L	3	3
Acenaphthylene	µg/L	<1	<1
Acenaphthene	µg/L	<1	<1
Fluorene	µg/L	<1	<1
Phenanthrene	µg/L	<1	<1
Anthracene	µg/L	<1	<1
Fluoranthene	µg/L	<1	<1
Pyrene	µg/L	<1	<1
Benzo(a)anthracene	µg/L	<1	<1
Chrysene	µg/L	<1	<1
Benzo(b+k)fluoranthene	µg/L	<2	<2
Benzo(a)pyrene	µg/L	<1	<1
Indeno(1,2,3-c,d)pyrene	µg/L	<1	<1
Dibenzo(a,h)anthracene	µg/L	<1	<1
Benzo(g,h,i)perylene	µg/L	<1	<1
Surrogate p-Terphenyl-d14	%	107	106

OCP in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	55997-1 GW9/240511 24/05/2011 Water	55997-2 BD1/240511 24/05/2011 Water
Date extracted	-	27/05/2011	27/05/2011
Date analysed	-	27/05/2011	27/05/2011
HCB	µg/L	<0.2	<0.2
alpha-BHC	µg/L	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2
Surrogate TCLMX	%	89	80

OP Pesticides in water			
Our Reference:	UNITS	55997-1	55997-2
Your Reference	-----	GW9/240511	BD1/240511
Date Sampled	-----	24/05/2011	24/05/2011
Type of sample		Water	Water
Date extracted	-	27/05/2011	27/05/2011
Date analysed	-	27/05/2011	27/05/2011
Diazinon	µg/L	<0.2	<0.2
Dimethoate	µg/L	<0.2	<0.2
Chlorpyriphos-methyl	µg/L	<0.2	<0.2
Ronnel	µg/L	<0.2	<0.2
Chlorpyriphos	µg/L	<0.2	<0.2
Fenitrothion	µg/L	<0.2	<0.2
Bromophos ethyl	µg/L	<0.2	<0.2
Ethion	µg/L	<0.2	<0.2
Surrogate TCLMX	%	89	80

PCBs in Water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	55997-1 GW9/240511 24/05/2011 Water	55997-2 BD1/240511 24/05/2011 Water
Date extracted	-	27/05/2011	27/05/2011
Date analysed	-	27/05/2011	27/05/2011
Arochlor 1016	µg/L	<2	<2
Arochlor 1221*	µg/L	<2	<2
Arochlor 1232	µg/L	<2	<2
Arochlor 1242	µg/L	<2	<2
Arochlor 1248	µg/L	<2	<2
Arochlor 1254	µg/L	<2	<2
Arochlor 1260	µg/L	<2	<2
Surrogate TCLMX	%	89	80

Total Phenolics in Water			
Our Reference:	UNITS	55997-1	55997-2
Your Reference	-----	GW9/240511	BD1/240511
Date Sampled	-----	24/05/2011	24/05/2011
Type of sample		Water	Water
Date extracted	-	26/05/2011	26/05/2011
Date analysed	-	26/5/2011	26/5/2011
Total Phenolics (as Phenol)	mg/L	<0.05	<0.05

HM in water - dissolved	UNITS	55997-1	55997-2
Our Reference:	-----	GW9/240511	BD1/240511
Your Reference	-----	24/05/2011	24/05/2011
Date Sampled		Water	Water
Type of sample			
Date prepared	-	27/5/2011	27/5/2011
Date analysed	-	30/5/2011	30/5/2011
Arsenic-Dissolved	µg/L	2	1
Cadmium-Dissolved	µg/L	1.0	0.9
Chromium-Dissolved	µg/L	3	2
Copper-Dissolved	µg/L	11	11
Lead-Dissolved	µg/L	<1	<1
Mercury-Dissolved	µg/L	<0.1	<0.1
Nickel-Dissolved	µg/L	24	26
Zinc-Dissolved	µg/L	100	100

Miscellaneous Inorganics			
Our Reference:	UNITS	55997-1	55997-2
Your Reference	-----	GW9/240511	BD1/240511
Date Sampled	-----	24/05/2011	24/05/2011
Type of sample		Water	Water
Date prepared	-	27/05/2011	27/05/2011
Date analysed	-	30/05/2011	30/05/2011
Hardness	mgCaCO ₃ /L	55	50
Calcium - Dissolved	mg/L	13	11
Magnesium - Dissolved	mg/L	5.6	5.4

MethodID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed byGC-FID.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Inorg-030	Total Phenolics - determined colorimetrically following disitillation, based upon APHA 21st ED 5530 D.
Metals-022 ICP-MS	Determination of various metals by ICP-MS.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.

Client Reference: 48773.05, Wollongong Hospital

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH & BTEX in Water						Base II Duplicate II %RPD		
Date extracted	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
Date analysed	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
TRHC ₆ - C ₉	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W1	104%
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	105%
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	105%
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	104%
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	LCS-W1	103%
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	104%
Surrogate	%		Org-016	94	[NT]	[NT]	LCS-W1	88%
Dibromofluoromethane								
Surrogate toluene-d8	%		Org-016	101	[NT]	[NT]	LCS-W1	101%
Surrogate 4-BFB	%		Org-016	101	[NT]	[NT]	LCS-W1	100%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTRH in Water (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
Date analysed	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
TRHC ₁₀ - C ₁₄	µg/L	50	Org-003	<50	[NT]	[NT]	LCS-W1	79%
TRHC ₁₅ - C ₂₈	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	100%
TRHC ₂₉ - C ₃₆	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	97%
Surrogate o-Terphenyl	%		Org-003	91	[NT]	[NT]	LCS-W1	108%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water						Base II Duplicate II %RPD		
Date extracted	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
Date analysed	-			28/05/2011	[NT]	[NT]	LCS-W1	28/05/2011
Naphthalene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	66%
Acenaphthylene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Fluorene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	72%
Phenanthrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	69%
Anthracene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	68%

Client Reference: 48773.05, Wollongong Hospital

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water						Base II Duplicate II %RPD		
Pyrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	71%
Benzo(a)anthracene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	81%
Benzo(b+k)fluoranthene	µg/L	2	Org-012 subset	<2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	87%
Indeno(1,2,3-c,d)pyrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	65	[NT]	[NT]	LCS-W1	71%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in water						Base II Duplicate II %RPD		
Date extracted	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
Date analysed	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
HCB	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
alpha-BHC	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	71%
gamma-BHC	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
beta-BHC	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	76%
Heptachlor	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	64%
delta-BHC	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
Aldrin	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	69%
Heptachlor Epoxide	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	75%
gamma-Chlordane	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
alpha-Chlordane	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
Endosulfan I	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
pp-DDE	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	74%
Dieldrin	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	68%
Endrin	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	64%
pp-DDD	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	72%
Endosulfan II	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
pp-DDT	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	LCS-W1	63%
Methoxychlor	µg/L	0.2	Org-005	<0.2	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-005	74	[NT]	[NT]	LCS-W1	72%

Client Reference: 48773.05, Wollongong Hospital

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OP Pesticides in water						Base II Duplicate II %RPD		
Date extracted	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
Date analysed	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
Diazinon	µg/L	0.2	Org-008	<0.2	[NT]	[NT]	[NR]	[NR]
Dimethoate	µg/L	0.2	Org-008	<0.2	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-methyl	µg/L	0.2	Org-008	<0.2	[NT]	[NT]	[NR]	[NR]
Ronnel	µg/L	0.2	Org-008	<0.2	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	µg/L	0.2	Org-008	<0.2	[NT]	[NT]	LCS-W1	83%
Fenitrothion	µg/L	0.2	Org-008	<0.2	[NT]	[NT]	LCS-W1	92%
Bromophos ethyl	µg/L	0.2	Org-008	<0.2	[NT]	[NT]	[NR]	[NR]
Ethion	µg/L	0.2	Org-008	<0.2	[NT]	[NT]	LCS-W1	84%
Surrogate TCLMX	%		Org-008	74	[NT]	[NT]	LCS-W1	81%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Water						Base II Duplicate II %RPD		
Date extracted	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
Date analysed	-			27/05/2011	[NT]	[NT]	LCS-W1	27/05/2011
Arochlor 1016	µg/L	2	Org-006	<2	[NT]	[NT]	[NR]	[NR]
Arochlor 1221*	µg/L	2	Org-006	<2	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	µg/L	2	Org-006	<2	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	µg/L	2	Org-006	<2	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	µg/L	2	Org-006	<2	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	µg/L	2	Org-006	<2	[NT]	[NT]	LCS-W1	96%
Arochlor 1260	µg/L	2	Org-006	<2	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	74	[NT]	[NT]	LCS-W1	84%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Total Phenolics in Water						Base II Duplicate II %RPD		
Date extracted	-			26/05/2011	[NT]	[NT]	LCS-1	26/05/2011
Date analysed	-			26/5/2011	[NT]	[NT]	LCS-1	26/5/2011
Total Phenolics (as Phenol)	mg/L	0.05	Inorg-030	<0.05	[NT]	[NT]	LCS-1	99%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
HM in water - dissolved						Base II Duplicate II %RPD		
Date prepared	-			27/05/2011	[NT]	[NT]	LCS-W1	27/5/2011
Date analysed	-			30/05/2011	[NT]	[NT]	LCS-W1	30/5/2011
Arsenic-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	97%

Client Reference: 48773.05, Wollongong Hospital

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
HM in water - dissolved						Base II Duplicate II %RPD		
Cadmium-Dissolved	µg/L	0.1	Metals-022 ICP-MS	<0.1	[NT]	[NT]	LCS-W1	90%
Chromium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	81%
Copper-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	82%
Lead-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	105%
Mercury-Dissolved	µg/L	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-W1	80%
Nickel-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	80%
Zinc-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	87%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorganics						Base II Duplicate II %RPD		
Date prepared	-			27/05/2011	[NT]	[NT]	LCS-W1	27/5/2011
Date analysed	-			30/05/2011	[NT]	[NT]	LCS-W1	30/5/2011
Hardness	mgCaCO ₃ /L	3	Metals-020 ICP-AES	<3	[NT]	[NT]	[NR]	[NR]
Calcium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	[NT]	[NT]	LCS-W1	97%
Magnesium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	[NT]	[NT]	LCS-W1	98%

Report Comments:

Asbestos ID was analysed by Approved Identifier: Not applicable for this job
 Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

Aileen Hie

From: Jane Smalley [Jane.Smalley@douglaspartners.com.au]
Sent: Thursday, 23 June 2011 04:22 PM
To: Aileen Hie
Cc: Kenton Horsley
Subject: TRH and BTEX test with silica gel clean up - Report no 55997
Importance: High

Dear Aileen,

Can I please get TRH and BTEX retested with a silica gel clean up on Sample 1 from Report 55997 on a same day turn around (i.e. get results tomorrow)

Thank you

Jane Smalley | Environmental Engineer / Environmental Manager
Douglas Partners Pty Ltd | ABN 75 053 980 117 | www.douglaspartners.com.au
1/1 Luso Drive Unanderra NSW 2526 | PO Box 486 Unanderra NSW 2526
P: 02 4271 1836 | F: 02 4271 1897 | M: 0419 265 232 | E: Jane.Smalley@douglaspartners.com.au

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Envirolab ref: 55997A

Due: 24/6/11

24hr TLD



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS

55997-A

Client:

Douglas Partners Unanderra
Unit 1, 1 Luso Drive
Unanderra
NSW 2526

Attention: Jane Smalley, Kenton Horsley

Sample log in details:

Your Reference:	<u>48773.05, Wollongong Hospital</u>
No. of samples:	Additional Testing on 1 Water
Date samples received / completed instructions received	25/05/11 / 23/06/11

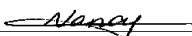
Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 24/06/11 / 24/06/11
Date of Preliminary Report: Not Issued
NATA accreditation number 2901. This document shall not be reproduced except in full.
This document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:


Nancy Zhang
Chemist

Envirolab Reference: 55997-A
Revision No: R 01



vTRH & BTEX in Water		
Our Reference:	UNITS	55997-A-1
Your Reference	-----	GW9/240511
Date Sampled	-----	24/05/2011
Type of sample		Water
Date extracted	-	24/06/2011
Date analysed	-	24/06/2011
TRHC ₆ - C ₉	µg/L	18
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Surrogate Dibromofluoromethane	%	113
Surrogate toluene-d8	%	98
Surrogate 4-BFB	%	94

sTPH in Water (C10-C36) Silica Gel Clean		
Our Reference:	UNITS	55997-A-1
Your Reference	-----	GW9/240511
Date Sampled	-----	24/05/2011
Type of sample		Water
Date extracted	-	24/06/2011
Date analysed	-	24/06/2011
TPHC ₁₀ - C ₁₄	µg/L	<50
TPHC ₁₅ - C ₂₈	µg/L	<100
TPHC ₂₉ - C ₃₆	µg/L	<100
Surrogate o-Terphenyl	%	83

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.

Client Reference: 48773.05, Wollongong Hospital

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH & BTEX in Water						Base II Duplicate II %RPD		
Date extracted	-			24/06/2011	[NT]	[NT]	LCS-W1	24/06/2011
Date analysed	-			24/06/2011	[NT]	[NT]	LCS-W1	24/06/2011
TRHC ₆ - C ₉	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W1	108%
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	109%
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	107%
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	108%
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	LCS-W1	108%
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	108%
Surrogate Dibromofluoromethane	%		Org-016	97	[NT]	[NT]	LCS-W1	96%
Surrogate toluene-d8	%		Org-016	100	[NT]	[NT]	LCS-W1	97%
Surrogate 4-BFB	%		Org-016	95	[NT]	[NT]	LCS-W1	96%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Water (C10-C36) Silica Gel Clean						Base II Duplicate II %RPD		
Date extracted	-			24/06/2011	[NT]	[NT]	LCS-W1	24/06/2011
Date analysed	-			24/06/2011	[NT]	[NT]	LCS-W1	24/06/2011
TPHC ₁₀ - C ₁₄	µg/L	50	Org-003	<50	[NT]	[NT]	LCS-W1	60%
TPHC ₁₅ - C ₂₈	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	64%
TPHC ₂₉ - C ₃₆	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	65%
Surrogate o-Terphenyl	%		Org-003	69	[NT]	[NT]	LCS-W1	71%

Report Comments:

Total Recoverable Hydrocarbons (BTEX) in water: BTEX result has been retested on the sample from amber bottle which had head

Asbestos ID was analysed by Approved Identifier: Not applicable for this job
Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
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Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

Appendix J

Table J1: Acid Sulphate Report Summary

Table J1: Acid Sulphate Report Summary

Sample ID	Sample Depth ^a (m)	Sample RL (m AHD)	Sample Description	Screening Test Results				Laboratory Results						
				pH			Strength of Reaction ^b	pH _{KCL}	Scr %S	s-TAA %S	S _{NAS} %S	s-ANC _{BT} %S	s-C _{IN} %S	Net Acidity ^c %S
				pH _F	pH _{FOX}	pH _F - pH _{FOX}								
11	0.5		Orange brown silty clay	6.5	6.3	0.2	1	-	-	-	-	-	-	-
11	0.8		Orange brown sandy clay	5.1	4.7	0.4	1	-	-	-	-	-	-	-
11	1.0 – 1.1		Orange brown sandy clay	5	4.7	0.3	1	3.4	<0.005	0.37	<0.005	<0.05	-	0.37
11	1.4 – 1.5		Orange grey sandy clay	5.9	5.3	0.6	1	-	-	-	-	-	-	-
11	1.75		Orange brown sandy clay	5.7	5.1	0.6	1	3.2	<0.005	0.17	<0.005	<0.05	-	0.17
11	2		Orange brown sandy clay	5.8	5.4	0.4	2	-	-	-	-	-	-	-
17	0.25		Brown silty sand	6.9	6.3	0.6	3F	-	-	-	-	-	-	-
17	0.5		Grey brown silty sand	7.5	7.2	0.3	2	-	-	-	-	-	-	-
17	0.7		Orange brown sandy clay	7.4	6.9	0.5	2	-	-	-	-	-	-	-
26	0.1		Brown silty sand	8.7	8.7	0	2	-	-	-	-	-	-	-
26	0.3		Brown gravelly sand	8.3	8.3	0	4F	-	-	-	-	-	-	-
26	0.5		Brown sandy clay	8.1	8.1	0	3F	-	-	-	-	-	-	-
Guideline			Sands to loamy sands											0.03
			Sandy loams to light clays	<4 ^d	<3.5 ^e	≥1 ^e	-	-	-	-	-	-	-	0.06 ^f /0.03 ^g
			Medium to heavy clays & silty clays											0.1 ^f /0.03 ^g

Notes to Table:

- a Depth below ground surface
- b Strength of Reaction
- 1 denotes no or slight reaction
 - 2 denotes moderate reaction
 - 3 denotes high reaction
 - 4 denotes very vigorous reaction
 - F denotes bubbling/frothy reaction indicative of organics
 - H denotes heat generated
- c Calculated from ABA equation in ASS Laboratory Methods Guidelines
- d For actual acid sulphate soils (ASS)
- e Indicative value only for Potential Acid Sulphate Soils (PASS)
- f QASSMAC Action Criteria for disturbance of 1-1000 tonnes of material
- g QASSMAC Action Criteria for disturbance of more than 1000 tonnes of material
- Shaded results indicate an exceedence of QASSMAC criteria

Appendix K

Quality Assurance and Quality Control Assessment

Quality Assurance and Quality Control Assessment

1. Field QA/QC

Field QA/QC included sample transportation under strict Chain-of-Custody procedures. Completed Chain-of-Custody documentation certifying the condition of the samples upon arrival at the contract laboratory are included with the Laboratory Reports, Appendix J.

1.1 Trip Blank

A laboratory prepared trip blank was taken out to the field unopened, subjected to the same preservation methods as the field samples, then analysed, for the purposes of determining the transfer of contaminants into the blank sample incurred prior to reaching the laboratory. The results of the laboratory analysis for the trip blank are shown in Table QA1.

Table QA1: Trip Blank Results (mg/kg)

Sample	Benzene	Toluene	Ethyl-Benzene	Xylene
TB1 4/5/11	<0.2	<0.5	<1	<3
TB2 4/5/11	<0.2	<0.5	<1	<3
TB3 5/5/11	<0.2	<0.5	<1	<3
TB4 6/5/11	<0.2	<0.5	<1	<3
TB5 6/5/11	<0.2	<0.5	<1	<3
TB6 6/5/11	<0.2	<0.5	<1	<3

Levels of analytes were below the practical quantification limits, indicating that cross contamination of BTEX had not occurred during the course of the round trip from laboratory to site.

1.2 Relative Percentage Difference

A measure of the consistency of results for field samples is derived by the calculation of relative percentage differences (RPDs) for replicate samples.

Several intra-laboratory duplicates were collected to assess the repeatability of the laboratory result as a measure of the representativeness of sampling techniques.

The comparative results of analysis between originals and replicates for soils is summarised in Table QA2.

Table QA2: RPD Results for Intra-laboratory Replicate for Soils (mg/kg)

Sample	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	B(a)P	PAH
11/1.4-1.5	<4	<0.5	35	21	6	<0.1	8	79	<0.05	<0.1
BD1	5	<0.5	39	26	9	<0.1	11	86	<0.05	<0.1
Difference	1	0	4	5	3	0	3	7	0	0
RPD (%)	22	0	11	21	40	0	32	9	0	0
19/0.1	9	<0.5	7	16	24	0.2	7	58	0.05	1.55
BD2	8	<0.5	7	24	22	<0.1	7	55	0.08	1.58
Difference	1	0	0	8	2	0.1	0	3	0.03	0.03
RPD (%)	12	0	0	40	9	67	0	5	46	2
17/0.1	<4	<0.5	6	71	12	<0.1	6	49	<0.05	0.2
BD3	<4	<0.5	6	78	12	<0.1	6	49	<0.05	0.2
Difference	0	0	0	7	0	0	0	0	0	0
RPD (%)	0	0	0	9	0	0	0	0	0	0
9/0.1	<4	<0.5	7	220	14	<0.1	4	36	<0.05	<0.1
BD6	<4	<0.5	6	220	15	<0.1	3	34	<0.05	<0.1
Difference	0	0	1	0	1	0	1	2	0	0
RPD (%)	0	0	16	0	7	0	29	6	0	0
10/0.1	<4	<0.5	3	250	4	<0.1	7	44	<0.05	<0.1
BD7	<4	<0.5	3	250	4	<0.1	7	40	<0.05	<0.1
Difference	0	0	0	0	0	0	0	4	0	0
RPD (%)	0	0	0	0	0	0	0	10	0	0

The calculated RPD values showed 4 out of the 50 were outside the range of +/- 30% for inorganic analytes. It is considered that the analytical results are acceptably suitable due to:

- some of the results being close to the practical laboratory limits of detection;
- the actual concentration differences between the majority of the replicate pairs are relatively small; and
- the majority of samples were collected from heterogeneous filling material.

The comparative results of analysis between original and replicate for ground water is summarised in Table QA3.

Table QA3: RPD Results for Intra-laboratory Replicate for Ground Water

Sample	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	B(a)P	PAH
GW09/240511	2	1	3	11	<1	<0.1	24	100	<1	3
BD1/240511	1	0.9	2	11	<1	<0.1	26	100	<1	3
Difference	1	0.1	1	0	0	0	2	0	0	0
RPD (%)	67	11	40	0	0	0	8	0	0	0

The calculated RPD values showed 2 out of the 10 were outside the range of +/- 30% for inorganic analytes. It is therefore considered that the analytical results are acceptable.

2. Laboratory QA/QC Procedures

The following QA/QC procedures were conducted by the laboratory.

2.1 Reagent Blank

This sample is prepared and analysed at the beginning of every analytical run, following calibration of the analytical apparatus. The laboratory results for reagent blanks for soil and groundwater analyses indicated concentrations of all analytes to be below laboratory detection limits. These results are included in the laboratory report.

2.2 Spike Recovery

This is a sample replicate prepared by adding a known amount of analyte prior to analysis, and then treated exactly the same as all other samples. The recovery result indicates the proportion of the known concentration of the analyte that is detected during analysis. These results are included in the laboratory report. Spike recoveries were all within the acceptable range specified by Envirolab Services.

2.3 Surrogate Recovery

This sample is prepared by adding a known amount of surrogate, which behaves similarly to the analyte, prior to analysis to each sample. The recovery result indicates the proportion of the known concentration of the surrogate that is detected during analysis. These results are included in the laboratory report and are within acceptance limits as specified in Envirolab Services, indicating that the extraction technique was effective.

2.4 Duplicates

These are additional portions of a sample which are analysed in exactly the same manner as all other samples. The duplicate sample results are included in the laboratory results.