

GRAPHIC LOG SYMBOLS FOR SOIL AND ROCKS

SOIL	ROCK	DEFECTS AND INCLUSIONS
 FILL	 CONGLOMERATE	 CLAY SEAM
 TOPSOIL	 SANDSTONE	 SHEARED OR CRUSHED SEAM
 CLAY (CL, CH)	 SHALE	 BRECCIATED OR SHATTERED SEAM/ZONE
 SILT (ML, MH)	 SILTSTONE, MUDSTONE, CLAYSTONE	 IRONSTONE GRAVEL
 SAND (SP, SW)	 LIMESTONE	 ORGANIC MATERIAL
 GRAVEL (GP, GW)	 PHYLLITE, SCHIST	
 SANDY CLAY (CL, CH)	 TUFF	OTHER MATERIALS
 SILTY CLAY (CL, CH)	 GRANITE, GABBRO	 CONCRETE
 CLAYEY SAND (SC)	 DOLERITE, DIORITE	 BITUMINOUS CONCRETE, COAL
 SILTY SAND (SM)	 BASALT, ANDESITE	 COLLUVIUM
 GRAVELLY CLAY (CL, CH)	 QUARTZITE	
 CLAYEY GRAVEL (GC)		
 SANDY SILT (ML)		
 PEAT AND ORGANIC SOILS		

Field Identification Procedures (Excluding particles larger than 75 μm and basing fractions on estimated weights)				Group Symbols	Typical Names	Information Required for Describing Soils	Laboratory Classification Criteria	
Coarse-grained soils More than half of material is larger than 75 μm sieve size ^b (The 75 μm sieve size is about the smallest particle visible to naked eye)	Gravels More than half of coarse fraction is larger than 4 mm sieve size	Clean gravels (little or no fines)	Wide range in grain size and substantial amounts of all intermediate particle sizes	GW	Well graded gravels, gravel-sand mixtures, little or no fines	Give typical name; indicate approximate percentages of sand and gravel; maximum size; angularity, surface condition, and hardness of the coarse grains; local or geologic name and other pertinent descriptive information; and symbols in parentheses For undisturbed soils add information on stratification, degree of compactness, cementation, moisture conditions and drainage characteristics Example: Silty sand, gravelly; about 20% hard, angular gravel particles 12 mm maximum size; rounded and subangular sand grains coarse to fine, about 15% non-plastic fines with low dry strength; well compacted and moist in place; alluvial sand; (SM)	$C_U = \frac{D_{60}}{D_{10}}$ Greater than 4 $C_C = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting all gradation requirements for GW Atterberg limits below "A" line, or PI less than 4 Atterberg limits above "A" line, with PI greater than 7	
			Predominantly one size or a range of sizes with some intermediate sizes missing	GP	Poorly graded gravels, gravel-sand mixtures, little or no fines			
		Gravels with fines (appreciable amount of fines)	Nonplastic fines (for identification procedures see ML below)	GM	Silty gravels, poorly graded gravel-sand-silt mixtures			
	Sands More than half of coarse fraction is smaller than 4 mm sieve size	Clean sands (little or no fines)	Wide range in grain sizes and substantial amounts of all intermediate particle sizes	SW	Well graded sands, gravelly sands, little or no fines			
			Predominantly one size or a range of sizes with some intermediate sizes missing	SP	Poorly graded sands, gravelly sands, little or no fines			
		Sands with fines (appreciable amount of fines)	Nonplastic fines (for identification procedures, see ML below)	SM	Silty sands, poorly graded sand-silt mixtures			
Fine-grained soils More than half of material is smaller than 75 μm sieve size (The 75 μm sieve size is about the smallest particle visible to naked eye)	Identification Procedures on Fraction Smaller than 380 μm Sieve Size							
	Silt and clays liquid limit less than 50	Dry Strength (crushing characteristics)	Dilatancy (reaction to shaking)	Toughness (consistency near plastic limit)			Give typical name; indicate degree and character of plasticity, amount and maximum size of coarse grains; colour in wet condition, odour if any, local or geologic name, and other pertinent descriptive information, and symbol in parentheses For undisturbed soils add information on structure, stratification, consistency in undisturbed and remoulded states, moisture and drainage conditions Example: Clayey silt, brown; slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess; (ML)	$C_U = \frac{D_{60}}{D_{10}}$ Greater than 6 $C_C = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting all gradation requirements for SP Atterberg limits below "A" line or PI less than 5 Atterberg limits below "A" line with PI greater than 7
		None to slight	Quick to slow	None	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands with slight plasticity		
		Medium to high	None to very slow	Medium	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays		
		Slight to medium	Slow	Slight	OL	Organic silts and organic silt-clays of low plasticity		
		Slight to medium	Slow to none	Slight to medium	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts		
		High to very high	None	High	CH	Inorganic clays of high plasticity, fat clays		
	Silt and clays liquid limit greater than 50	Medium to high	None to very slow	Slight to medium	OH	Organic clays of medium to high plasticity		
		Highly Organic Soils			PI	Peat and other highly organic soils		

Determine percentages of gravel and sand from grain size curve

Depending on percentage of fines (fraction smaller than 75 μm sieve size) coarse grained soils are classified as follows:
Less than 5% GW, GP, SW, SP
More than 5% GM, GC, SM, SC
Borderline cases requiring use of dual symbols

Use grain size curve in identifying the fractions as given under field identification

Plasticity index

Comparing soils at equal liquid limit

Toughness and dry strength increase with increasing plasticity index

A line

CH

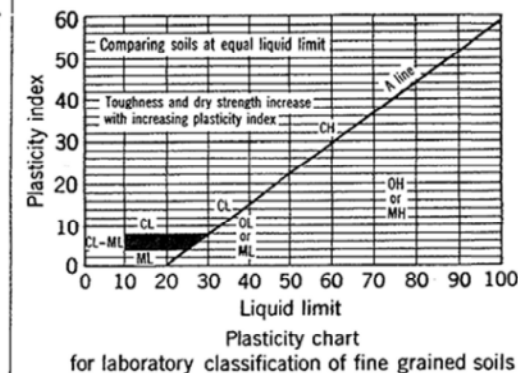
OH or MH

Liquid limit

Plasticity chart for laboratory classification of fine grained soils

Determine percentages of gravel and sand from grain size curve
Depending on percentage of fines (fraction smaller than 75 µm sieve size) coarse grained soils are classified as follows:
Less than 5% GW, GP, SW, SP
More than 5% GM, GC, SM, SC
Borderline cases requiring use of dual symbols

Use grain size curve in identifying the fractions as given under field identification



- Note: 1 Soils possessing characteristics of two groups are designated by combinations of group symbols (eg. GW-GC, well graded gravel-sand mixture with clay fines).
2 Soils with liquid limits of the order of 35 to 50 may be visually classified as being of medium plasticity.

LOG SYMBOLS

LOG COLUMN	SYMBOL		DEFINITION																		
Groundwater Record			Standing water level. Time delay following completion of drilling may be shown.																		
			Extent of borehole collapse shortly after drilling.																		
			Groundwater seepage into borehole or excavation noted during drilling or excavation.																		
Samples	ES	Soil sample taken over depth indicated, for environmental analysis.																			
	U50	Undisturbed 50mm diameter tube sample taken over depth indicated.																			
	DB	Bulk disturbed sample taken over depth indicated.																			
	DS	Small disturbed bag sample taken over depth indicated.																			
	ASB	Soil sample taken over depth indicated, for asbestos screening.																			
	ASS	Soil sample taken over depth indicated, for acid sulfate soil analysis.																			
	SAL	Soil sample taken over depth indicated, for salinity analysis.																			
Field Tests	N = 17 4, 7, 10		Standard Penetration Test (SPT) performed between depths indicated by lines. Individual show blows per 150mm penetration. 'R' as noted below.																		
	N _c =	5	Solid Cone Penetration Test (SCPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration for 60 degree solid cone driven by SPT hammer. 'R' refers to apparent hammer refusal within the corresponding 150mm depth increment.																		
		7																			
		3 R																			
VNS = 25 PID = 100		Vane shear reading in kPa of Undrained Shear Strength. Photoionisation detector reading in ppm (Soil sample heads pace test).																			
Moisture (Cohesive Soils) (Cohesionless)	MC>PL MC≈PL MC<PL D M W	Moisture content estimated to be greater than plastic limit. Moisture content estimated to be approximately equal to plastic limit. Moisture content estimated to be less than plastic limit. DRY – Runs freely through fingers. MOIST – Does not run freely but no free water visible on soil surface. WET – Free water visible on soil surface.																			
Strength (Consistency) Cohesive Soils	VS S F St VSt H ()	VERY SOFT – Unconfined compressive strength less than 25kPa SOFT – Unconfined compressive strength 25-50kPa FIRM – Unconfined compressive strength 50-100kPa STIFF – Unconfined compressive strength 100- 200kPa VERY STIFF – Unconfined compressive strength 200- 400kPa HARD – Unconfined compressive strength greater than 400kPa Bracketed symbol indicates estimated consistency based on tactile examination or other tests.																			
Density Index/ Relative Density (Cohesionless Soils)	VL L MD D VD ()	<table><thead><tr><th colspan="2">Density Index (ID) Range (%)</th><th>SPT 'N' Value Range (Blows/300mm)</th></tr></thead><tbody><tr><td>Very Loose</td><td>< 15</td><td>0-4</td></tr><tr><td>Loose</td><td>15-35</td><td>4-10</td></tr><tr><td>Medium Dense</td><td>35-65</td><td>10-30</td></tr><tr><td>Dense</td><td>65-85</td><td>30-50</td></tr><tr><td>Very Dense</td><td>> 85</td><td>> 50</td></tr></tbody></table> Bracketed symbol indicates estimated density based on ease of drilling or other tests.		Density Index (ID) Range (%)		SPT 'N' Value Range (Blows/300mm)	Very Loose	< 15	0-4	Loose	15-35	4-10	Medium Dense	35-65	10-30	Dense	65-85	30-50	Very Dense	> 85	> 50
Density Index (ID) Range (%)		SPT 'N' Value Range (Blows/300mm)																			
Very Loose	< 15	0-4																			
Loose	15-35	4-10																			
Medium Dense	35-65	10-30																			
Dense	65-85	30-50																			
Very Dense	> 85	> 50																			
Hand Penetrometer Readings	300 250	Numbers indicate individual test results in kPa on representative undisturbed material unless noted otherwise																			
Remarks	'V' bit 'TC' bit T ₆₀	Hardened steel 'V' shaped bit. Tungsten carbide wing bit. Penetration of auger string in mm under static load of rig applied by drill head hydraulics without rotation of augers.																			

LOG SYMBOLS CONTINUED

ROCK STRENGTH

Rock strength is defined by the Point Load Strength Index (Is 50) and refers to the strength of the rock substance in the bedding. The test procedure is described by the International Journal of Rock Mechanics, Mining and Geomechanics Abstract Volume 22, No 2, 1985.

TERM	SYMBOL	Is (50) MPa	FIELD GUIDE
Extremely Low:	EL	0.03	Easily remoulded by hand to a material with soil properties.
Very Low:	VL	0.1	May be crumbled in the hand. Sandstone is "sugary" and friable.
Low:	L	0.3	A piece of core 150 mm long x 50mm dia. may be broken by hand and easily scored with a knife. Sharp edges of core may be friable and break during handling.
Medium Strength:	M	1	A piece of core 150 mm long x 50mm dia. can be broken by hand with difficulty. Readily scored with knife.
High:	H	3	A piece of core 150 mm long x 50mm dia. core cannot be broken by hand, can be slightly scratched or scored with knife; rock rings under hammer.
Very High:	VH	10	A piece of core 150 mm long x 50mm dia. may be broken with hand-held pick after more than one blow. Cannot be scratched with pen knife; rock rings under hammer.
Extremely High:	EH		A piece of core 150 mm long x 50mm dia. is very difficult to break with hand-held hammer. Rings when struck with a hammer.

ROCK STRENGTH

ABBREVIATION	DESCRIPTION	NOTES
Be	Bedding Plane Parting	Defect orientations measured relative to the normal to (i.e. relative to horizontal for vertical holes)
CS	Clay Seam	
J	Joint	
P	Planar	
Un	Undulating	
S	Smooth	
R	Rough	
IS	Iron stained	
XWS	Extremely Weathered Seam	
Cr	Crushed Seam	
60t	Thickness of defect in millimetres	



Appendix B: Laboratory Reports and Chain of Custody Documents

CERTIFICATE OF ANALYSIS

116323

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Mitch Delaney

Sample log in details:

Your Reference:

E27556K, Austral

No. of samples:

60 soils 3 material

Date samples received / completed instructions received

17/09/14 / 17/09/14

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:

24/09/14 / 24/09/14

Date of Preliminary Report:

Not Issued

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:



Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil	UNITS	116323-1	116323-2	116323-3	116323-5	116323-7
Our Reference:	-----	TP1	TP1	TP2	TP3	TP4
Your Reference	-----	0-0.3	0.4-0.6	0-0.3	0-0.25	0-0.2
Depth		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	130	112	112	111	117

vTRH(C6-C10)/BTEXN in Soil	UNITS	116323-8	116323-9	116323-11	116323-13	116323-15
Our Reference:	-----	TP4	TP5	TP6	TP7	TP8
Your Reference	-----	0.3-0.5	0-0.25	0-0.25	0-0.2	0-0.2
Depth		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	120	116	129	115	130

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-17 TP9 0-0.2 15/09/2014 Soil	116323-18 TP9 0.3-0.5 15/09/2014 Soil	116323-19 TP10 0-0.15 15/09/2014 Soil	116323-21 TP11 0-0.25 15/09/2014 Soil	116323-22 TP11 0.3-0.5 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	125	130	126	108	105

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-23 TP12 0-0.25 15/09/2014 Soil	116323-25 TP13 0-0.2 15/09/2014 Soil	116323-27 TP14 0-0.3 15/09/2014 Soil	116323-28 TP14 0.4-0.6 15/09/2014 Soil	116323-29 TP15 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	111	117	120	110	127

vTRH(C6-C10)/BTEXN in Soil	UNITS	116323-30	116323-31	116323-33	116323-34	116323-35
Our Reference:	-----	TP15	TP16	TP17	TP17	TP18
Your Reference	-----	0.3-0.5	0-0.2	0-0.25	0.3-0.5	0-0.2
Depth		15/09/2014	15/09/2014	16/09/2014	16/09/2014	16/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	116	108	116	107	119

vTRH(C6-C10)/BTEXN in Soil	UNITS	116323-37	116323-39	116323-41	116323-42	116323-43
Our Reference:	-----	TP19	TP20	TP21	TP21	TP22
Your Reference	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Depth		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	121	104	126	119	128

vTRH(C6-C10)/BTEXN in Soil	UNITS	116323-45	116323-46	116323-47	116323-49	116323-51
Our Reference:	-----	TP23	TP23	TP24	TP25	TP26
Your Reference	-----	0-0.2	0.3-0.5	0-0.2	0-0.15	0-0.2
Depth		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	121	127	118	118	120

vTRH(C6-C10)/BTEXN in Soil	UNITS	116323-53	116323-54	116323-55	116323-56	116323-57
Our Reference:	-----	TP27	TP27	DUPA	DUPB	DUPC
Your Reference	-----	0-0.3	0.3-0.5	-	-	-
Depth		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	122	124	120	127	121

vTRH(C6-C10)/BTEXN in Soil				
Our Reference:	UNITS	116323-58	116323-59	116323-60
Your Reference	-----	DUPD	TS1	TB
Depth	-----	-	-	-
Date Sampled		16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014
TRHC ₆ - C ₉	mg/kg	<25	[NA]	[NA]
TRHC ₆ - C ₁₀	mg/kg	<25	[NA]	[NA]
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	[NA]	[NA]
Benzene	mg/kg	<0.2	100%	<0.2
Toluene	mg/kg	<0.5	101%	<0.5
Ethylbenzene	mg/kg	<1	100%	<1
m+p-xylene	mg/kg	<2	101%	<2
o-Xylene	mg/kg	<1	102%	<1
naphthalene	mg/kg	<1	[NA]	[NA]
Surrogate aaa-Trifluorotoluene	%	115	104	124

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-1 TP1 0-0.3 15/09/2014 Soil	116323-2 TP1 0.4-0.6 15/09/2014 Soil	116323-3 TP2 0-0.3 15/09/2014 Soil	116323-5 TP3 0-0.25 15/09/2014 Soil	116323-7 TP4 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
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
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	86	88	92	88	85

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-8 TP4 0.3-0.5 15/09/2014 Soil	116323-9 TP5 0-0.25 15/09/2014 Soil	116323-11 TP6 0-0.25 15/09/2014 Soil	116323-13 TP7 0-0.2 15/09/2014 Soil	116323-15 TP8 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
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
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	86	87	87	89	88

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-17 TP9 0-0.2 15/09/2014 Soil	116323-18 TP9 0.3-0.5 15/09/2014 Soil	116323-19 TP10 0-0.15 15/09/2014 Soil	116323-21 TP11 0-0.25 15/09/2014 Soil	116323-22 TP11 0.3-0.5 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
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
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	86	85	88	88	89

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-23 TP12 0-0.25 15/09/2014 Soil	116323-25 TP13 0-0.2 15/09/2014 Soil	116323-27 TP14 0-0.3 15/09/2014 Soil	116323-28 TP14 0.4-0.6 15/09/2014 Soil	116323-29 TP15 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
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
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	88	94	91	92	85

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-30 TP15 0.3-0.5 15/09/2014 Soil	116323-31 TP16 0-0.2 15/09/2014 Soil	116323-33 TP17 0-0.25 16/09/2014 Soil	116323-34 TP17 0.3-0.5 16/09/2014 Soil	116323-35 TP18 0-0.2 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
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
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	91	85	88	89	86

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-37 TP19 0-0.2 16/09/2014 Soil	116323-39 TP20 0-0.2 16/09/2014 Soil	116323-41 TP21 0-0.2 16/09/2014 Soil	116323-42 TP21 0.3-0.5 16/09/2014 Soil	116323-43 TP22 0-0.2 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	330	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	640	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	810	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	380	<100	<100
Surrogate o-Terphenyl	%	92	85	91	69	89

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-45 TP23 0-0.2 16/09/2014 Soil	116323-46 TP23 0.3-0.5 16/09/2014 Soil	116323-47 TP24 0-0.2 16/09/2014 Soil	116323-49 TP25 0-0.15 16/09/2014 Soil	116323-51 TP26 0-0.2 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	72	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	120	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	200	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	78	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	78	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	250	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	110	<100
Surrogate o-Terphenyl	%	88	88	87	91	88

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-53 TP27 0-0.3 16/09/2014 Soil	116323-54 TP27 0.3-0.5 16/09/2014 Soil	116323-55 DUPA - 16/09/2014 Soil	116323-56 DUPB - 16/09/2014 Soil	116323-57 DUPC - 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
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
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	87	86	88	85	86

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	116323-58
Your Reference	-----	DUPD
Depth	-----	-
Date Sampled		16/09/2014
Type of sample		Soil
Date extracted	-	18/09/2014
Date analysed	-	19/09/2014
TRHC ₁₀ - C ₁₄	mg/kg	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100
Surrogate o-Terphenyl	%	89

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-1 TP1 0-0.3 15/09/2014 Soil	116323-2 TP1 0.4-0.6 15/09/2014 Soil	116323-3 TP2 0-0.3 15/09/2014 Soil	116323-5 TP3 0-0.25 15/09/2014 Soil	116323-7 TP4 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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,j+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	0.06
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
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	0.060
Surrogate p-Terphenyl-d14	%	88	103	108	102	98

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-8 TP4 0.3-0.5 15/09/2014 Soil	116323-9 TP5 0-0.25 15/09/2014 Soil	116323-11 TP6 0-0.25 15/09/2014 Soil	116323-13 TP7 0-0.2 15/09/2014 Soil	116323-15 TP8 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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,j+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
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	100	102	100	102	100

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-17 TP9 0-0.2 15/09/2014 Soil	116323-18 TP9 0.3-0.5 15/09/2014 Soil	116323-19 TP10 0-0.15 15/09/2014 Soil	116323-21 TP11 0-0.25 15/09/2014 Soil	116323-22 TP11 0.3-0.5 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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,j+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
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	98	101	101	103	104

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-23 TP12 0-0.25 15/09/2014 Soil	116323-25 TP13 0-0.2 15/09/2014 Soil	116323-27 TP14 0-0.3 15/09/2014 Soil	116323-28 TP14 0.4-0.6 15/09/2014 Soil	116323-29 TP15 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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,j+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
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	101	102	98	106	101

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-30 TP15 0.3-0.5 15/09/2014 Soil	116323-31 TP16 0-0.2 15/09/2014 Soil	116323-33 TP17 0-0.25 16/09/2014 Soil	116323-34 TP17 0.3-0.5 16/09/2014 Soil	116323-35 TP18 0-0.2 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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	0.3	<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,j+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
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	0.27	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	106	98	102	104	100

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-37 TP19 0-0.2 16/09/2014 Soil	116323-39 TP20 0-0.2 16/09/2014 Soil	116323-41 TP21 0-0.2 16/09/2014 Soil	116323-42 TP21 0.3-0.5 16/09/2014 Soil	116323-43 TP22 0-0.2 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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,j+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	0.2	<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	0.3	<0.1	<0.1
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	0.48	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	108	99	102	81	104

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-45 TP23 0-0.2 16/09/2014 Soil	116323-46 TP23 0.3-0.5 16/09/2014 Soil	116323-47 TP24 0-0.2 16/09/2014 Soil	116323-49 TP25 0-0.15 16/09/2014 Soil	116323-51 TP26 0-0.2 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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,j+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
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	104	103	103	103	100

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-53 TP27 0-0.3 16/09/2014 Soil	116323-54 TP27 0.3-0.5 16/09/2014 Soil	116323-55 DUPA - 16/09/2014 Soil	116323-56 DUPB - 16/09/2014 Soil	116323-57 DUPC - 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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,j,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
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	100	103	103	99	103

PAHs in Soil		
Our Reference:	UNITS	116323-58
Your Reference	-----	DUPD
Depth	-----	-
Date Sampled		16/09/2014
Type of sample		Soil
Date extracted	-	18/09/2014
Date analysed	-	18/09/2014
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Benzo(a)pyrene TEQ NEPMB1	mg/kg	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE
Surrogate p-Terphenyl-d14	%	105

Organochlorine Pesticides in soil						
Our Reference:	UNITS	116323-1	116323-2	116323-3	116323-5	116323-7
Your Reference	-----	TP1	TP1	TP2	TP3	TP4
Depth	-----	0-0.3	0.4-0.6	0-0.3	0-0.25	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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	6.9	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	7.3	<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 TCMX	%	79	80	88	83	79

Organochlorine Pesticides in soil						
Our Reference:	UNITS	116323-8	116323-9	116323-11	116323-13	116323-15
Your Reference	-----	TP4	TP5	TP6	TP7	TP8
Depth	-----	0.3-0.5	0-0.25	0-0.25	0-0.2	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	79	79	83	81	79

Organochlorine Pesticides in soil						
Our Reference:	UNITS	116323-17	116323-18	116323-19	116323-21	116323-22
Your Reference	-----	TP9	TP9	TP10	TP11	TP11
Depth	-----	0-0.2	0.3-0.5	0-0.15	0-0.25	0.3-0.5
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	79	79	79	81	82

Organochlorine Pesticides in soil						
Our Reference:	UNITS	116323-23	116323-25	116323-27	116323-28	116323-29
Your Reference	-----	TP12	TP13	TP14	TP14	TP15
Depth	-----	0-0.25	0-0.2	0-0.3	0.4-0.6	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	78	80	77	85	80

Organochlorine Pesticides in soil						
Our Reference:	UNITS	116323-30	116323-31	116323-33	116323-34	116323-35
Your Reference	-----	TP15	TP16	TP17	TP17	TP18
Depth	-----	0.3-0.5	0-0.2	0-0.25	0.3-0.5	0-0.2
Date Sampled		15/09/2014	15/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	86	78	78	83	80

Organochlorine Pesticides in soil						
Our Reference:	UNITS	116323-37	116323-39	116323-41	116323-42	116323-43
Your Reference	-----	TP19	TP20	TP21	TP21	TP22
Depth	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	84	77	82	63	82

Organochlorine Pesticides in soil						
Our Reference:	UNITS	116323-45	116323-46	116323-47	116323-49	116323-51
Your Reference	-----	TP23	TP23	TP24	TP25	TP26
Depth	-----	0-0.2	0.3-0.5	0-0.2	0-0.15	0-0.2
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	80	81	82	82	83

Organochlorine Pesticides in soil						
Our Reference:	UNITS	116323-53	116323-54	116323-55	116323-56	116323-57
Your Reference	-----	TP27	TP27	DUPA	DUPB	DUPC
Depth	-----	0-0.3	0.3-0.5	-	-	-
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	83	83	82	78	82

Organochlorine Pesticides in soil		
Our Reference:	UNITS	116323-58
Your Reference	-----	DUPD
Depth	-----	-
Date Sampled		16/09/2014
Type of sample		Soil
Date extracted	-	18/09/2014
Date analysed	-	18/09/2014
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCMX	%	83

Organophosphorus Pesticides	UNITS	116323-1	116323-2	116323-3	116323-5	116323-7
Our Reference:	-----	TP1	TP1	TP2	TP3	TP4
Your Reference	-----	0-0.3	0.4-0.6	0-0.3	0-0.25	0-0.2
Depth		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	79	80	88	83	79

Organophosphorus Pesticides	UNITS	116323-8	116323-9	116323-11	116323-13	116323-15
Our Reference:	-----	TP4	TP5	TP6	TP7	TP8
Your Reference	-----	0.3-0.5	0-0.25	0-0.25	0-0.2	0-0.2
Depth		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	79	79	83	81	79

Organophosphorus Pesticides	UNITS	116323-17	116323-18	116323-19	116323-21	116323-22
Our Reference:	-----	TP9	TP9	TP10	TP11	TP11
Your Reference	-----	0-0.2	0.3-0.5	0-0.15	0-0.25	0.3-0.5
Depth		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	79	79	79	81	82

Organophosphorus Pesticides	UNITS	116323-23	116323-25	116323-27	116323-28	116323-29
Our Reference:	-----	TP12	TP13	TP14	TP14	TP15
Your Reference	-----	0-0.25	0-0.2	0-0.3	0.4-0.6	0-0.2
Depth		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	78	80	77	85	80

Organophosphorus Pesticides						
Our Reference:	UNITS	116323-30	116323-31	116323-33	116323-34	116323-35
Your Reference	-----	TP15	TP16	TP17	TP17	TP18
Depth	-----	0.3-0.5	0-0.2	0-0.25	0.3-0.5	0-0.2
Date Sampled		15/09/2014	15/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	86	78	78	83	80

Organophosphorus Pesticides						
Our Reference:	UNITS	116323-37	116323-39	116323-41	116323-42	116323-43
Your Reference	-----	TP19	TP20	TP21	TP21	TP22
Depth	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	84	77	82	63	82

Organophosphorus Pesticides						
Our Reference:	UNITS	116323-45	116323-46	116323-47	116323-49	116323-51
Your Reference	-----	TP23	TP23	TP24	TP25	TP26
Depth	-----	0-0.2	0.3-0.5	0-0.2	0-0.15	0-0.2
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	80	81	82	82	83

Organophosphorus Pesticides						
Our Reference:	UNITS	116323-53	116323-54	116323-55	116323-56	116323-57
Your Reference	-----	TP27	TP27	DUPA	DUPB	DUPC
Depth	-----	0-0.3	0.3-0.5	-	-	-
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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 TCMX	%	83	83	82	78	82

Organophosphorus Pesticides		
Our Reference:	UNITS	116323-58
Your Reference	-----	DUPD
Depth	-----	-
Date Sampled		16/09/2014
Type of sample		Soil
Date extracted	-	18/09/2014
Date analysed	-	18/09/2014
Diazinon	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Chlorpyrifos	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Ethion	mg/kg	<0.1
Surrogate TCMX	%	83

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-1 TP1 0-0.3 15/09/2014 Soil	116323-2 TP1 0.4-0.6 15/09/2014 Soil	116323-3 TP2 0-0.3 15/09/2014 Soil	116323-5 TP3 0-0.25 15/09/2014 Soil	116323-7 TP4 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Arochlor 1016	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Surrogate TCLMX	%	79	80	88	83	79

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-8 TP4 0.3-0.5 15/09/2014 Soil	116323-9 TP5 0-0.25 15/09/2014 Soil	116323-11 TP6 0-0.25 15/09/2014 Soil	116323-13 TP7 0-0.2 15/09/2014 Soil	116323-15 TP8 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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	79	83	81	79

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-17 TP9 0-0.2 15/09/2014 Soil	116323-18 TP9 0.3-0.5 15/09/2014 Soil	116323-19 TP10 0-0.15 15/09/2014 Soil	116323-21 TP11 0-0.25 15/09/2014 Soil	116323-22 TP11 0.3-0.5 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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	79	79	81	82

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-23 TP12 0-0.25 15/09/2014 Soil	116323-25 TP13 0-0.2 15/09/2014 Soil	116323-27 TP14 0-0.3 15/09/2014 Soil	116323-28 TP14 0.4-0.6 15/09/2014 Soil	116323-29 TP15 0-0.2 15/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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	%	78	80	77	85	80

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-30 TP15 0.3-0.5 15/09/2014 Soil	116323-31 TP16 0-0.2 15/09/2014 Soil	116323-33 TP17 0-0.25 16/09/2014 Soil	116323-34 TP17 0.3-0.5 16/09/2014 Soil	116323-35 TP18 0-0.2 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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	%	86	78	78	83	80

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-37 TP19 0-0.2 16/09/2014 Soil	116323-39 TP20 0-0.2 16/09/2014 Soil	116323-41 TP21 0-0.2 16/09/2014 Soil	116323-42 TP21 0.3-0.5 16/09/2014 Soil	116323-43 TP22 0-0.2 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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	%	84	77	82	63	82

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-45 TP23 0-0.2 16/09/2014 Soil	116323-46 TP23 0.3-0.5 16/09/2014 Soil	116323-47 TP24 0-0.2 16/09/2014 Soil	116323-49 TP25 0-0.15 16/09/2014 Soil	116323-51 TP26 0-0.2 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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	%	80	81	82	82	83

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-53 TP27 0-0.3 16/09/2014 Soil	116323-54 TP27 0.3-0.5 16/09/2014 Soil	116323-55 DUPA - 16/09/2014 Soil	116323-56 DUPB - 16/09/2014 Soil	116323-57 DUPC - 16/09/2014 Soil
Date extracted	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
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	%	83	83	82	78	82

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-58 DUPD - 16/09/2014 Soil
Date extracted	-	18/09/2014
Date analysed	-	18/09/2014
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Surrogate TCLMX	%	83

Acid Extractable metals in soil						
Our Reference:	UNITS	116323-1	116323-2	116323-3	116323-5	116323-7
Your Reference	-----	TP1	TP1	TP2	TP3	TP4
Depth	-----	0-0.3	0.4-0.6	0-0.3	0-0.25	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Arsenic	mg/kg	7	<4	<4	<4	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	0.6
Chromium	mg/kg	16	14	15	17	17
Copper	mg/kg	14	15	25	21	56
Lead	mg/kg	24	12	19	24	65
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	9	8	12	16	13
Zinc	mg/kg	28	25	63	64	100

Acid Extractable metals in soil						
Our Reference:	UNITS	116323-8	116323-9	116323-11	116323-13	116323-15
Your Reference	-----	TP4	TP5	TP6	TP7	TP8
Depth	-----	0.3-0.5	0-0.25	0-0.25	0-0.2	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Arsenic	mg/kg	<4	7	8	6	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	11	15	23	17	19
Copper	mg/kg	36	17	16	16	16
Lead	mg/kg	13	21	24	20	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	11	10	9	11
Zinc	mg/kg	52	47	77	43	33

Acid Extractable metals in soil						
Our Reference:	UNITS	116323-17	116323-18	116323-19	116323-21	116323-22
Your Reference	-----	TP9	TP9	TP10	TP11	TP11
Depth	-----	0-0.2	0.3-0.5	0-0.15	0-0.25	0.3-0.5
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Arsenic	mg/kg	7	6	10	6	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	15	18	17	17
Copper	mg/kg	15	25	16	18	22
Lead	mg/kg	23	12	33	28	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	9	11	9	10
Zinc	mg/kg	33	42	230	39	28

Acid Extractable metals in soil						
Our Reference:	UNITS	116323-23	116323-25	116323-27	116323-28	116323-29
Your Reference	-----	TP12	TP13	TP14	TP14	TP15
Depth	-----	0-0.25	0-0.2	0-0.3	0.4-0.6	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Arsenic	mg/kg	8	7	18	4	5
Cadmium	mg/kg	0.7	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	21	38	13	16
Copper	mg/kg	49	27	51	23	23
Lead	mg/kg	100	22	23	14	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	10	13	10	10
Zinc	mg/kg	540	62	110	38	35

Acid Extractable metals in soil						
Our Reference:	UNITS	116323-30	116323-31	116323-33	116323-34	116323-35
Your Reference	-----	TP15	TP16	TP17	TP17	TP18
Depth	-----	0.3-0.5	0-0.2	0-0.25	0.3-0.5	0-0.2
Date Sampled		15/09/2014	15/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Arsenic	mg/kg	<4	11	6	24	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	29	13	10	18
Copper	mg/kg	23	19	28	24	12
Lead	mg/kg	16	23	41	12	22
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	9	13	12	6	7
Zinc	mg/kg	32	33	63	27	19

Acid Extractable metals in soil						
Our Reference:	UNITS	116323-37	116323-39	116323-41	116323-42	116323-43
Your Reference	-----	TP19	TP20	TP21	TP21	TP22
Depth	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Arsenic	mg/kg	8	22	9	8	9
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	14	18	16	15
Copper	mg/kg	13	21	17	15	12
Lead	mg/kg	22	22	30	12	18
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	11	11	7	9
Zinc	mg/kg	26	32	73	28	24

Acid Extractable metals in soil						
Our Reference:	UNITS	116323-45	116323-46	116323-47	116323-49	116323-51
Your Reference	-----	TP23	TP23	TP24	TP25	TP26
Depth	-----	0-0.2	0.3-0.5	0-0.2	0-0.15	0-0.2
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Arsenic	mg/kg	9	12	9	10	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	13	15	17	19	15
Copper	mg/kg	11	28	15	18	20
Lead	mg/kg	24	11	24	36	27
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	8	9	12	11
Zinc	mg/kg	35	36	39	54	71

Acid Extractable metals in soil						
Our Reference:	UNITS	116323-53	116323-54	116323-55	116323-56	116323-57
Your Reference	-----	TP27	TP27	DUPA	DUPB	DUPC
Depth	-----	0-0.3	0.3-0.5	-	-	-
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Arsenic	mg/kg	8	7	7	8	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	17	14	17	18
Copper	mg/kg	18	18	13	16	21
Lead	mg/kg	30	16	23	31	27
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	5	9	10	9
Zinc	mg/kg	60	21	35	190	39

Acid Extractable metals in soil		
Our Reference:	UNITS	116323-58
Your Reference	-----	DUPD
Depth	-----	-
Date Sampled		16/09/2014
Type of sample		Soil
Date digested	-	18/09/2014
Date analysed	-	18/09/2014
Arsenic	mg/kg	9
Cadmium	mg/kg	<0.4
Chromium	mg/kg	19
Copper	mg/kg	17
Lead	mg/kg	28
Mercury	mg/kg	<0.1
Nickel	mg/kg	10
Zinc	mg/kg	55

Moisture						
Our Reference:	UNITS	116323-1	116323-2	116323-3	116323-5	116323-7
Your Reference	-----	TP1	TP1	TP2	TP3	TP4
Depth	-----	0-0.3	0.4-0.6	0-0.3	0-0.25	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
Moisture	%	22	18	15	28	14

Moisture						
Our Reference:	UNITS	116323-8	116323-9	116323-11	116323-13	116323-15
Your Reference	-----	TP4	TP5	TP6	TP7	TP8
Depth	-----	0.3-0.5	0-0.25	0-0.25	0-0.2	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
Moisture	%	19	21	19	19	19

Moisture						
Our Reference:	UNITS	116323-17	116323-18	116323-19	116323-21	116323-22
Your Reference	-----	TP9	TP9	TP10	TP11	TP11
Depth	-----	0-0.2	0.3-0.5	0-0.15	0-0.25	0.3-0.5
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
Moisture	%	19	17	17	19	20

Moisture						
Our Reference:	UNITS	116323-23	116323-25	116323-27	116323-28	116323-29
Your Reference	-----	TP12	TP13	TP14	TP14	TP15
Depth	-----	0-0.25	0-0.2	0-0.3	0.4-0.6	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
Moisture	%	26	35	24	19	18

Moisture						
Our Reference:	UNITS	116323-30	116323-31	116323-33	116323-34	116323-35
Your Reference	-----	TP15	TP16	TP17	TP17	TP18
Depth	-----	0.3-0.5	0-0.2	0-0.25	0.3-0.5	0-0.2
Date Sampled		15/09/2014	15/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
Moisture	%	20	18	19	23	19

Moisture						
Our Reference:	UNITS	116323-37	116323-39	116323-41	116323-42	116323-43
Your Reference	-----	TP19	TP20	TP21	TP21	TP22
Depth	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
Moisture	%	19	21	16	21	16

Moisture						
Our Reference:	UNITS	116323-45	116323-46	116323-47	116323-49	116323-51
Your Reference	-----	TP23	TP23	TP24	TP25	TP26
Depth	-----	0-0.2	0.3-0.5	0-0.2	0-0.15	0-0.2
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
Moisture	%	20	21	20	16	19

Moisture						
Our Reference:	UNITS	116323-53	116323-54	116323-55	116323-56	116323-57
Your Reference	-----	TP27	TP27	DUPA	DUPB	DUPC
Depth	-----	0-0.3	0.3-0.5	-	-	-
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
Date analysed	-	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
Moisture	%	19	17	21	17	19

Moisture		
Our Reference:	UNITS	116323-58
Your Reference	-----	DUPD
Depth	-----	-
Date Sampled		16/09/2014
Type of sample		Soil
Date prepared	-	18/09/2014
Date analysed	-	19/09/2014
Moisture	%	18

Asbestos ID - soils Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	116323-1 TP1 0-0.3 15/09/2014 Soil	116323-3 TP2 0-0.3 15/09/2014 Soil	116323-5 TP3 0-0.25 15/09/2014 Soil	116323-7 TP4 0-0.2 15/09/2014 Soil	116323-9 TP5 0-0.25 15/09/2014 Soil
Date analysed	-	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014
Sample mass tested	g	Approx 50g	Approx 60g	Approx 60g	A) 65.88g B) 9.57g	Approx 60g
Sample Description	-	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks	A) Brown soil & rocks B) Fragment	Brown fine grain soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	A) No asbestos detected at reporting limit of 0.1g B) Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference:	UNITS	116323-11	116323-13	116323-15	116323-17	116323-19
Your Reference	-----	TP6	TP7	TP8	TP9	TP10
Depth	-----	0-0.25	0-0.2	0-0.2	0-0.2	0-0.15
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014
Sample mass tested	g	Approx 70g	Approx 60g	Approx 40g	Approx 60g	Approx 50g
Sample Description	-	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference:	UNITS	116323-21	116323-23	116323-25	116323-27	116323-29
Your Reference	-----	TP11	TP12	TP13	TP14	TP15
Depth	-----	0-0.25	0-0.25	0-0.2	0-0.3	0-0.2
Date Sampled		15/09/2014	15/09/2014	15/09/2014	15/09/2014	15/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014
Sample mass tested	g	Approx 50g	Approx 60g	Approx 40g	Approx 50g	Approx 50g
Sample Description	-	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference:	UNITS	116323-31	116323-33	116323-35	116323-37	116323-39
Your Reference	-----	TP16	TP17	TP18	TP19	TP20
Depth	-----	0-0.2	0-0.25	0-0.2	0-0.2	0-0.2
Date Sampled		15/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014
Sample mass tested	g	Approx 50g	Approx 40g	Approx 50g	Approx 40g	Approx 50g
Sample Description	-	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference:	UNITS	116323-41	116323-43	116323-45	116323-47	116323-49
Your Reference	-----	TP21	TP22	TP23	TP24	TP25
Depth	-----	0-0.2	0-0.2	0-0.2	0-0.2	0-0.15
Date Sampled		16/09/2014	16/09/2014	16/09/2014	16/09/2014	16/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014	23- 24/09/2014
Sample mass tested	g	Approx 60g	Approx 50g	Approx 50g	Approx 50g	Approx 50g
Sample Description	-	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks	Brown fine grain soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils			
Our Reference:	UNITS	116323-51	116323-53
Your Reference	-----	TP26	TP27
Depth	-----	0-0.2	0-0.3
Date Sampled		16/09/2014	16/09/2014
Type of sample		Soil	Soil
Date analysed	-	23- 24/09/2014	23- 24/09/2014
Sample mass tested	g	Approx 50g	Approx 50g
Sample Description	-	Brown fine grain soil & rocks	Brown fine grain soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No asbestos detected	No asbestos detected

Asbestos ID - materials				
Our Reference:	UNITS	116323-61	116323-62	116323-63
Your Reference	-----	SS1	SS2	B1
Depth	-----	-	-	-
Date Sampled		16/09/2014	16/09/2014	16/09/2014
Type of sample		material	material	material
Date analysed	-	23/09/2014	23/09/2014	23/09/2014
Mass / Dimension of Sample	-	40x40x5mm	75x46x3mm	122x55x5mm
Sample Description	-	Pink compressed fibre cement material	Pink compressed fibre cement material	Grey compressed fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected

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. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
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.
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+/-5 deg C for a minimum of 12 hours.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Soil						Base II Duplicate II %RPD		
Date extracted	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-7	18/09/2014
Date analysed	-			19/09/2014	116323-1	19/09/2014 19/09/2014	LCS-7	19/09/2014
TRHC ₆ - C ₉	mg/kg	25	Org-016	<25	116323-1	<25 <25	LCS-7	104%
TRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	116323-1	<25 <25	LCS-7	104%
Benzene	mg/kg	0.2	Org-016	<0.2	116323-1	<0.2 <0.2	LCS-7	102%
Toluene	mg/kg	0.5	Org-016	<0.5	116323-1	<0.5 <0.5	LCS-7	104%
Ethylbenzene	mg/kg	1	Org-016	<1	116323-1	<1 <1	LCS-7	104%
m+p-xylene	mg/kg	2	Org-016	<2	116323-1	<2 <2	LCS-7	105%
o-Xylene	mg/kg	1	Org-016	<1	116323-1	<1 <1	LCS-7	107%
naphthalene	mg/kg	1	Org-014	<1	116323-1	<1 <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	105	116323-1	130 114 RPD: 13	LCS-7	117%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH (C10-C40) in Soil						Base II Duplicate II %RPD		
Date extracted	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-7	18/09/2014
Date analysed	-			19/09/2014	116323-1	19/09/2014 19/09/2014	LCS-7	19/09/2014
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	116323-1	<50 <50	LCS-7	119%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	116323-1	<100 <100	LCS-7	67%
TRHC ₂₈ - C ₃₆	mg/kg	100	Org-003	<100	116323-1	<100 <100	LCS-7	82%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	116323-1	<50 <50	LCS-7	119%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	116323-1	<100 <100	LCS-7	67%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	116323-1	<100 <100	LCS-7	82%
Surrogate o-Terphenyl	%		Org-003	83	116323-1	86 91 RPD: 6	LCS-7	99%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-7	18/09/2014
Date analysed	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-7	18/09/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	LCS-7	102%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	LCS-7	105%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	LCS-7	109%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	LCS-7	109%

Client Reference: E27556K, Austral

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	LCS-7	110%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	LCS-7	101%
Benzo(b,j,k) fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	116323-1	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	116323-1	<0.05 <0.05	LCS-7	116%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	97	116323-1	88 114 RPD: 26	LCS-7	100%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-5	18/09/2014
Date analysed	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-5	18/09/2014
HCB	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	101%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	92%
Heptachlor	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	103%
delta-BHC	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	100%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	102%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	92%
Dieldrin	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	100%
Endrin	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	103%
pp-DDD	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	100%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	LCS-5	101%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-005	78	116323-1	79 83 RPD: 5	LCS-5	81%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-5	18/09/2014
Date analysed	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-5	18/09/2014
Diazinon	mg/kg	0.1	Org-008	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	0.1	Org-008	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	0.1	Org-008	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	116323-1	<0.1 <0.1	LCS-5	129%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	116323-1	<0.1 <0.1	LCS-5	104%
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	116323-1	<0.1 <0.1	LCS-5	123%
Surrogate TCMX	%		Org-008	78	116323-1	79 83 RPD: 5	LCS-5	82%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-5	18/09/2014
Date analysed	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-5	18/09/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	116323-1	<0.1 <0.1	LCS-5	109%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	116323-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	78	116323-1	79 83 RPD: 5	LCS-5	91%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-6	18/09/2014
Date analysed	-			18/09/2014	116323-1	18/09/2014 18/09/2014	LCS-6	18/09/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	116323-1	7 7 RPD: 0	LCS-6	92%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	116323-1	<0.4 <0.4	LCS-6	95%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	116323-1	16 15 RPD: 6	LCS-6	93%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	116323-1	14 13 RPD: 7	LCS-6	95%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	116323-1	24 22 RPD: 9	LCS-6	92%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	116323-1	<0.1 <0.1	LCS-6	86%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base Duplicate %RPD		
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	116323-1	9 8 RPD: 12	LCS-6	93%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	116323-1	28 29 RPD: 4	LCS-6	93%
QUALITY CONTROL vTRH(C6-C10)/BTExN in Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	116323-17		18/09/2014 18/09/2014		LCS-8	18/09/2014	
Date analysed	-	116323-17		19/09/2014 19/09/2014		LCS-8	19/09/2014	
TRHC ₆ - C ₉	mg/kg	116323-17		<25 <25		LCS-8	94%	
TRHC ₆ - C ₁₀	mg/kg	116323-17		<25 <25		LCS-8	94%	
Benzene	mg/kg	116323-17		<0.2 <0.2		LCS-8	91%	
Toluene	mg/kg	116323-17		<0.5 <0.5		LCS-8	95%	
Ethylbenzene	mg/kg	116323-17		<1 <1		LCS-8	93%	
m+p-xylene	mg/kg	116323-17		<2 <2		LCS-8	96%	
o-Xylene	mg/kg	116323-17		<1 <1		LCS-8	95%	
naphthalene	mg/kg	116323-17		<1 <1		[NR]	[NR]	
Surrogate aaa-Trifluorotoluene	%	116323-17		125 119 RPD: 5		LCS-8	114%	
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	116323-17		18/09/2014 18/09/2014		LCS-8	18/09/2014	
Date analysed	-	116323-17		19/09/2014 19/09/2014		LCS-8	19/09/2014	
TRHC ₁₀ - C ₁₄	mg/kg	116323-17		<50 <50		LCS-8	112%	
TRHC ₁₅ - C ₂₈	mg/kg	116323-17		<100 <100		LCS-8	128%	
TRHC ₂₉ - C ₃₆	mg/kg	116323-17		<100 <100		LCS-8	114%	
TRH>C ₁₀ -C ₁₆	mg/kg	116323-17		<50 <50		LCS-8	112%	
TRH>C ₁₆ -C ₃₄	mg/kg	116323-17		<100 <100		LCS-8	128%	
TRH>C ₃₄ -C ₄₀	mg/kg	116323-17		<100 <100		LCS-8	114%	
Surrogate o-Terphenyl	%	116323-17		86 89 RPD: 3		LCS-8	109%	
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	116323-17		18/09/2014 18/09/2014		LCS-8	18/09/2014	
Date analysed	-	116323-17		18/09/2014 18/09/2014		LCS-8	18/09/2014	
Naphthalene	mg/kg	116323-17		<0.1 <0.1		LCS-8	103%	
Acenaphthylene	mg/kg	116323-17		<0.1 <0.1		[NR]	[NR]	
Acenaphthene	mg/kg	116323-17		<0.1 <0.1		[NR]	[NR]	
Fluorene	mg/kg	116323-17		<0.1 <0.1		LCS-8	105%	
Phenanthrene	mg/kg	116323-17		<0.1 <0.1		LCS-8	107%	
Anthracene	mg/kg	116323-17		<0.1 <0.1		[NR]	[NR]	
Fluoranthene	mg/kg	116323-17		<0.1 <0.1		LCS-8	111%	
Pyrene	mg/kg	116323-17		<0.1 <0.1		LCS-8	111%	

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(a)anthracene	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	116323-17	<0.1 <0.1	LCS-8	102%
Benzo(b,j+k)fluoranthene	mg/kg	116323-17	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	116323-17	<0.05 <0.05	LCS-8	117%
Indeno(1,2,3-c,d)pyrene	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	116323-17	98 104 RPD: 6	LCS-8	98%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-3	18/09/2014 18/09/2014	LCS-6	18/09/2014
Date analysed	-	116323-3	18/09/2014 18/09/2014	LCS-6	18/09/2014
HCB	mg/kg	116323-3	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	116323-3	<0.1 <0.1	LCS-6	100%
gamma-BHC	mg/kg	116323-3	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	116323-3	<0.1 <0.1	LCS-6	91%
Heptachlor	mg/kg	116323-3	<0.1 <0.1	LCS-6	103%
delta-BHC	mg/kg	116323-3	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	116323-3	<0.1 <0.1	LCS-6	100%
Heptachlor Epoxide	mg/kg	116323-3	<0.1 <0.1	LCS-6	103%
gamma-Chlordane	mg/kg	116323-3	6.9 7.5 RPD: 8	[NR]	[NR]
alpha-chlordane	mg/kg	116323-3	7.3 8.8 RPD: 19	[NR]	[NR]
Endosulfan I	mg/kg	116323-3	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	116323-3	<0.1 <0.1	LCS-6	93%
Dieldrin	mg/kg	116323-3	<0.1 <0.1	LCS-6	101%
Endrin	mg/kg	116323-3	<0.1 <0.1	LCS-6	104%
pp-DDD	mg/kg	116323-3	<0.1 <0.1	LCS-6	99%
Endosulfan II	mg/kg	116323-3	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	116323-3	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	116323-3	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	116323-3	<0.1 <0.1	LCS-6	100%
Methoxychlor	mg/kg	116323-3	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	116323-3	88 83 RPD: 6	LCS-6	81%

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QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-17	18/09/2014 18/09/2014	LCS-6	18/09/2014
Date analysed	-	116323-17	18/09/2014 18/09/2014	LCS-6	18/09/2014
Diazinon	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	116323-17	<0.1 <0.1	LCS-6	132%
Fenitrothion	mg/kg	116323-17	<0.1 <0.1	LCS-6	107%
Bromophos-ethyl	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	116323-17	<0.1 <0.1	LCS-6	127%
Surrogate TCMX	%	116323-17	79 82 RPD: 4	LCS-6	84%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-3	18/09/2014 18/09/2014	LCS-6	18/09/2014
Date analysed	-	116323-3	18/09/2014 18/09/2014	LCS-6	18/09/2014
Arochlor 1016	mg/kg	116323-3	<1 <1	[NR]	[NR]
Arochlor 1221	mg/kg	116323-3	<1 <1	[NR]	[NR]
Arochlor 1232	mg/kg	116323-3	<1 <1	[NR]	[NR]
Arochlor 1242	mg/kg	116323-3	<1 <1	[NR]	[NR]
Arochlor 1248	mg/kg	116323-3	<1 <1	[NR]	[NR]
Arochlor 1254	mg/kg	116323-3	<1 <1	LCS-6	105%
Arochlor 1260	mg/kg	116323-3	<1 <1	[NR]	[NR]
Surrogate TCLMX	%	116323-3	88 83 RPD: 6	LCS-6	92%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	116323-17	18/09/2014 18/09/2014	LCS-7	18/09/2014
Date analysed	-	116323-17	18/09/2014 18/09/2014	LCS-7	18/09/2014
Arsenic	mg/kg	116323-17	7 7 RPD: 0	LCS-7	84%
Cadmium	mg/kg	116323-17	<0.4 <0.4	LCS-7	87%
Chromium	mg/kg	116323-17	18 20 RPD: 11	LCS-7	87%
Copper	mg/kg	116323-17	15 14 RPD: 7	LCS-7	88%
Lead	mg/kg	116323-17	23 23 RPD: 0	LCS-7	86%
Mercury	mg/kg	116323-17	<0.1 <0.1	LCS-7	89%
Nickel	mg/kg	116323-17	8 8 RPD: 0	LCS-7	87%
Zinc	mg/kg	116323-17	33 30 RPD: 10	LCS-7	86%

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QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-30	18/09/2014 18/09/2014	116323-2	18/09/2014
Date analysed	-	116323-30	19/09/2014 19/09/2014	116323-2	19/09/2014
TRHC ₆ - C ₉	mg/kg	116323-30	<25 <25	116323-2	110%
TRHC ₆ - C ₁₀	mg/kg	116323-30	<25 <25	116323-2	110%
Benzene	mg/kg	116323-30	<0.2 <0.2	116323-2	109%
Toluene	mg/kg	116323-30	<0.5 <0.5	116323-2	111%
Ethylbenzene	mg/kg	116323-30	<1 <1	116323-2	109%
m+p-xylene	mg/kg	116323-30	<2 <2	116323-2	111%
o-Xylene	mg/kg	116323-30	<1 <1	116323-2	112%
naphthalene	mg/kg	116323-30	<1 <1	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	116323-30	116 114 RPD: 2	116323-2	122%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-30	18/09/2014 18/09/2014	116323-2	18/09/2014
Date analysed	-	116323-30	19/09/2014 19/09/2014	116323-2	19/09/2014
TRHC ₁₀ - C ₁₄	mg/kg	116323-30	<50 <50	116323-2	116%
TRHC ₁₅ - C ₂₈	mg/kg	116323-30	<100 <100	116323-2	137%
TRHC ₂₉ - C ₃₆	mg/kg	116323-30	<100 <100	116323-2	124%
TRH>C ₁₀ -C ₁₆	mg/kg	116323-30	<50 <50	116323-2	116%
TRH>C ₁₆ -C ₃₄	mg/kg	116323-30	<100 <100	116323-2	137%
TRH>C ₃₄ -C ₄₀	mg/kg	116323-30	<100 <100	116323-2	124%
Surrogate o-Terphenyl	%	116323-30	91 90 RPD: 1	116323-2	105%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-30	18/09/2014 18/09/2014	116323-2	18/09/2014
Date analysed	-	116323-30	18/09/2014 18/09/2014	116323-2	18/09/2014
Naphthalene	mg/kg	116323-30	<0.1 <0.1	116323-2	101%
Acenaphthylene	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	116323-30	<0.1 <0.1	116323-2	105%
Phenanthrene	mg/kg	116323-30	<0.1 <0.1	116323-2	108%
Anthracene	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	116323-30	<0.1 <0.1	116323-2	110%
Pyrene	mg/kg	116323-30	<0.1 <0.1	116323-2	111%
Benzo(a)anthracene	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	116323-30	<0.1 <0.1	116323-2	102%
Benzo(b,j+k)fluoranthene	mg/kg	116323-30	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	116323-30	<0.05 <0.05	116323-2	116%
Indeno(1,2,3-c,d)pyrene	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(g,h,i)perylene	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	116323-30	106 105 RPD: 1	116323-2	103%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-17	18/09/2014 18/09/2014	116323-2	18/09/2014
Date analysed	-	116323-17	18/09/2014 18/09/2014	116323-2	18/09/2014
HCB	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	116323-17	<0.1 <0.1	116323-2	98%
gamma-BHC	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	116323-17	<0.1 <0.1	116323-2	89%
Heptachlor	mg/kg	116323-17	<0.1 <0.1	116323-2	101%
delta-BHC	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	116323-17	<0.1 <0.1	116323-2	98%
Heptachlor Epoxide	mg/kg	116323-17	<0.1 <0.1	116323-2	100%
gamma-Chlordane	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	116323-17	<0.1 <0.1	116323-2	91%
Dieldrin	mg/kg	116323-17	<0.1 <0.1	116323-2	98%
Endrin	mg/kg	116323-17	<0.1 <0.1	116323-2	101%
pp-DDD	mg/kg	116323-17	<0.1 <0.1	116323-2	98%
Endosulfan II	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	116323-17	<0.1 <0.1	116323-2	99%
Methoxychlor	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	116323-17	79 82 RPD: 4	116323-2	79%

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QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-30	18/09/2014 18/09/2014	116323-2	18/09/2014
Date analysed	-	116323-30	18/09/2014 18/09/2014	116323-2	18/09/2014
Diazinon	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	116323-30	<0.1 <0.1	116323-2	129%
Chlorpyrifos	mg/kg	116323-30	<0.1 <0.1	116323-2	104%
Fenitrothion	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Bromophos-ethyl	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	116323-30	<0.1 <0.1	116323-2	123%
Surrogate TCMX	%	116323-30	86 86 RPD: 0	116323-2	84%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-17	18/09/2014 18/09/2014	116323-2	18/09/2014
Date analysed	-	116323-17	18/09/2014 18/09/2014	116323-2	18/09/2014
Arochlor 1016	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	116323-17	<0.1 <0.1	116323-2	108%
Arochlor 1260	mg/kg	116323-17	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	116323-17	79 82 RPD: 4	116323-2	93%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	116323-30	18/09/2014 18/09/2014	LCS-8	18/09/2014
Date analysed	-	116323-30	18/09/2014 18/09/2014	LCS-8	18/09/2014
Arsenic	mg/kg	116323-30	<4 <4	LCS-8	85%
Cadmium	mg/kg	116323-30	<0.4 <0.4	LCS-8	87%
Chromium	mg/kg	116323-30	16 14 RPD: 13	LCS-8	86%
Copper	mg/kg	116323-30	23 25 RPD: 8	LCS-8	87%
Lead	mg/kg	116323-30	16 14 RPD: 13	LCS-8	85%
Mercury	mg/kg	116323-30	<0.1 <0.1	LCS-8	86%
Nickel	mg/kg	116323-30	9 10 RPD: 11	LCS-8	86%
Zinc	mg/kg	116323-30	32 37 RPD: 14	LCS-8	85%

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QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-45	18/09/2014 18/09/2014	116323-31	18/09/2014
Date analysed	-	116323-45	19/09/2014 19/09/2014	116323-31	19/09/2014
TRHC ₆ - C ₉	mg/kg	116323-45	<25 <25	116323-31	102%
TRHC ₆ - C ₁₀	mg/kg	116323-45	<25 <25	116323-31	102%
Benzene	mg/kg	116323-45	<0.2 <0.2	116323-31	99%
Toluene	mg/kg	116323-45	<0.5 <0.5	116323-31	102%
Ethylbenzene	mg/kg	116323-45	<1 <1	116323-31	101%
m+p-xylene	mg/kg	116323-45	<2 <2	116323-31	103%
o-Xylene	mg/kg	116323-45	<1 <1	116323-31	104%
naphthalene	mg/kg	116323-45	<1 <1	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	116323-45	121 100 RPD: 19	116323-31	106%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-45	18/09/2014 18/09/2014	116323-31	18/09/2014
Date analysed	-	116323-45	19/09/2014 19/09/2014	116323-31	19/09/2014
TRHC ₁₀ - C ₁₄	mg/kg	116323-45	<50 <50	116323-31	103%
TRHC ₁₅ - C ₂₈	mg/kg	116323-45	<100 <100	116323-31	119%
TRHC ₂₉ - C ₃₆	mg/kg	116323-45	<100 <100	116323-31	116%
TRH>C ₁₀ -C ₁₆	mg/kg	116323-45	<50 <50	116323-31	103%
TRH>C ₁₆ -C ₃₄	mg/kg	116323-45	<100 <100	116323-31	119%
TRH>C ₃₄ -C ₄₀	mg/kg	116323-45	<100 <100	116323-31	116%
Surrogate o-Terphenyl	%	116323-45	88 88 RPD: 0	116323-31	109%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-45	18/09/2014 18/09/2014	116323-31	18/09/2014
Date analysed	-	116323-45	18/09/2014 18/09/2014	116323-31	18/09/2014
Naphthalene	mg/kg	116323-45	<0.1 <0.1	116323-31	104%
Acenaphthylene	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	116323-45	<0.1 <0.1	116323-31	105%
Phenanthrene	mg/kg	116323-45	<0.1 <0.1	116323-31	109%
Anthracene	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	116323-45	<0.1 <0.1	116323-31	110%
Pyrene	mg/kg	116323-45	<0.1 <0.1	116323-31	111%
Benzo(a)anthracene	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	116323-45	<0.1 <0.1	116323-31	102%
Benzo(b,j,k)fluoranthene	mg/kg	116323-45	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	116323-45	<0.05 <0.05	116323-31	115%
Indeno(1,2,3-c,d)pyrene	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(g,h,i)perylene	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	116323-45	104 103 RPD: 1	116323-31	100%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-30	18/09/2014 18/09/2014	116323-31	18/09/2014
Date analysed	-	116323-30	18/09/2014 18/09/2014	116323-31	18/09/2014
HCB	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	116323-30	<0.1 <0.1	116323-31	99%
gamma-BHC	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	116323-30	<0.1 <0.1	116323-31	90%
Heptachlor	mg/kg	116323-30	<0.1 <0.1	116323-31	102%
delta-BHC	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	116323-30	<0.1 <0.1	116323-31	100%
Heptachlor Epoxide	mg/kg	116323-30	<0.1 <0.1	116323-31	102%
gamma-Chlordane	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	116323-30	<0.1 <0.1	116323-31	93%
Dieldrin	mg/kg	116323-30	<0.1 <0.1	116323-31	101%
Endrin	mg/kg	116323-30	<0.1 <0.1	116323-31	105%
pp-DDD	mg/kg	116323-30	<0.1 <0.1	116323-31	101%
Endosulfan II	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	116323-30	<0.1 <0.1	116323-31	102%
Methoxychlor	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	116323-30	86 86 RPD: 0	116323-31	79%

Client Reference: E27556K, Austral

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-45	18/09/2014 18/09/2014	116323-31	18/09/2014
Date analysed	-	116323-45	18/09/2014 18/09/2014	116323-31	18/09/2014
Diazinon	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	116323-45	<0.1 <0.1	116323-31	123%
Fenitrothion	mg/kg	116323-45	<0.1 <0.1	116323-31	100%
Bromophos-ethyl	mg/kg	116323-45	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	116323-45	<0.1 <0.1	116323-31	135%
Surrogate TCMX	%	116323-45	80 79 RPD: 1	116323-31	77%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-30	18/09/2014 18/09/2014	116323-31	18/09/2014
Date analysed	-	116323-30	18/09/2014 18/09/2014	116323-31	18/09/2014
Arochlor 1016	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	116323-30	<0.1 <0.1	116323-31	103%
Arochlor 1260	mg/kg	116323-30	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	116323-30	86 86 RPD: 0	116323-31	83%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	116323-45	18/09/2014 18/09/2014	116323-2	18/09/2014
Date analysed	-	116323-45	18/09/2014 18/09/2014	116323-2	18/09/2014
Arsenic	mg/kg	116323-45	9 9 RPD: 0	116323-2	70%
Cadmium	mg/kg	116323-45	<0.4 <0.4	116323-2	74%
Chromium	mg/kg	116323-45	13 13 RPD: 0	116323-2	74%
Copper	mg/kg	116323-45	11 11 RPD: 0	116323-2	77%
Lead	mg/kg	116323-45	24 28 RPD: 15	116323-2	70%
Mercury	mg/kg	116323-45	<0.1 <0.1	116323-2	87%
Nickel	mg/kg	116323-45	8 8 RPD: 0	116323-2	71%
Zinc	mg/kg	116323-45	35 40 RPD: 13	116323-2	70%

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	116323-58	18/09/2014 18/09/2014		
Date analysed	-	116323-58	19/09/2014 19/09/2014		
TRHC ₆ - C ₉	mg/kg	116323-58	<25 <25		
TRHC ₆ - C ₁₀	mg/kg	116323-58	<25 <25		
Benzene	mg/kg	116323-58	<0.2 <0.2		
Toluene	mg/kg	116323-58	<0.5 <0.5		
Ethylbenzene	mg/kg	116323-58	<1 <1		
m+p-xylene	mg/kg	116323-58	<2 <2		
o-Xylene	mg/kg	116323-58	<1 <1		
naphthalene	mg/kg	116323-58	<1 <1		
Surrogate aaa- Trifluorotoluene	%	116323-58	115 120 RPD: 4		
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	116323-58	18/09/2014 18/09/2014		
Date analysed	-	116323-58	19/09/2014 19/09/2014		
TRHC ₁₀ - C ₁₄	mg/kg	116323-58	<50 <50		
TRHC ₁₅ - C ₂₈	mg/kg	116323-58	<100 <100		
TRHC ₂₉ - C ₃₆	mg/kg	116323-58	<100 <100		
TRH>C ₁₀ -C ₁₆	mg/kg	116323-58	<50 <50		
TRH>C ₁₆ -C ₃₄	mg/kg	116323-58	<100 <100		
TRH>C ₃₄ -C ₄₀	mg/kg	116323-58	<100 <100		
Surrogate o-Terphenyl	%	116323-58	89 85 RPD: 5		
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	116323-58	18/09/2014 18/09/2014	LCS-4	18/09/2014
Date analysed	-	116323-58	18/09/2014 18/09/2014	LCS-4	18/09/2014
Naphthalene	mg/kg	116323-58	<0.1 <0.1	LCS-4	118%
Acenaphthylene	mg/kg	116323-58	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	116323-58	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	116323-58	<0.1 <0.1	LCS-4	124%
Phenanthrene	mg/kg	116323-58	<0.1 <0.1	LCS-4	123%
Anthracene	mg/kg	116323-58	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	116323-58	<0.1 <0.1	LCS-4	123%
Pyrene	mg/kg	116323-58	<0.1 <0.1	LCS-4	124%
Benzo(a)anthracene	mg/kg	116323-58	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	116323-58	<0.1 <0.1	LCS-4	114%
Benzo(b,j,k)fluoranthene	mg/kg	116323-58	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	116323-58	<0.05 <0.05	LCS-4	134%
Indeno(1,2,3-c,d)pyrene	mg/kg	116323-58	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	116323-58	<0.1 <0.1	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(g,h,i)perylene	mg/kg	116323-58	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	116323-58	105 100 RPD: 5	LCS-4	109%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	116323-45	18/09/2014 18/09/2014		
Date analysed	-	116323-45	18/09/2014 18/09/2014		
HCB	mg/kg	116323-45	<0.1 <0.1		
alpha-BHC	mg/kg	116323-45	<0.1 <0.1		
gamma-BHC	mg/kg	116323-45	<0.1 <0.1		
beta-BHC	mg/kg	116323-45	<0.1 <0.1		
Heptachlor	mg/kg	116323-45	<0.1 <0.1		
delta-BHC	mg/kg	116323-45	<0.1 <0.1		
Aldrin	mg/kg	116323-45	<0.1 <0.1		
Heptachlor Epoxide	mg/kg	116323-45	<0.1 <0.1		
gamma-Chlordane	mg/kg	116323-45	<0.1 <0.1		
alpha-chlordane	mg/kg	116323-45	<0.1 <0.1		
Endosulfan I	mg/kg	116323-45	<0.1 <0.1		
pp-DDE	mg/kg	116323-45	<0.1 <0.1		
Dieldrin	mg/kg	116323-45	<0.1 <0.1		
Endrin	mg/kg	116323-45	<0.1 <0.1		
pp-DDD	mg/kg	116323-45	<0.1 <0.1		
Endosulfan II	mg/kg	116323-45	<0.1 <0.1		
pp-DDT	mg/kg	116323-45	<0.1 <0.1		
Endrin Aldehyde	mg/kg	116323-45	<0.1 <0.1		
Endosulfan Sulphate	mg/kg	116323-45	<0.1 <0.1		
Methoxychlor	mg/kg	116323-45	<0.1 <0.1		
Surrogate TCMX	%	116323-45	80 79 RPD: 1		

QUALITYCONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	116323-58	18/09/2014 18/09/2014		
Date analysed	-	116323-58	18/09/2014 18/09/2014		
Diazinon	mg/kg	116323-58	<0.1 <0.1		
Dimethoate	mg/kg	116323-58	<0.1 <0.1		
Chlorpyrifos-methyl	mg/kg	116323-58	<0.1 <0.1		
Ronnel	mg/kg	116323-58	<0.1 <0.1		
Chlorpyrifos	mg/kg	116323-58	<0.1 <0.1		
Fenitrothion	mg/kg	116323-58	<0.1 <0.1		
Bromophos-ethyl	mg/kg	116323-58	<0.1 <0.1		
Ethion	mg/kg	116323-58	<0.1 <0.1		
Surrogate TCMX	%	116323-58	83 81 RPD: 2		
QUALITYCONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	116323-45	18/09/2014 18/09/2014		
Date analysed	-	116323-45	18/09/2014 18/09/2014		
Arochlor 1016	mg/kg	116323-45	<0.1 <0.1		
Arochlor 1221	mg/kg	116323-45	<0.1 <0.1		
Arochlor 1232	mg/kg	116323-45	<0.1 <0.1		
Arochlor 1242	mg/kg	116323-45	<0.1 <0.1		
Arochlor 1248	mg/kg	116323-45	<0.1 <0.1		
Arochlor 1254	mg/kg	116323-45	<0.1 <0.1		
Arochlor 1260	mg/kg	116323-45	<0.1 <0.1		
Surrogate TCLMX	%	116323-45	80 79 RPD: 1		
QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	116323-58	18/09/2014 18/09/2014	116323-31	18/09/2014
Date analysed	-	116323-58	18/09/2014 18/09/2014	116323-31	18/09/2014
Arsenic	mg/kg	116323-58	9 9 RPD: 0	116323-31	81%
Cadmium	mg/kg	116323-58	<0.4 <0.4	116323-31	81%
Chromium	mg/kg	116323-58	19 20 RPD: 5	116323-31	85%
Copper	mg/kg	116323-58	17 17 RPD: 0	116323-31	98%
Lead	mg/kg	116323-58	28 30 RPD: 7	116323-31	77%
Mercury	mg/kg	116323-58	<0.1 <0.1	116323-31	86%
Nickel	mg/kg	116323-58	10 11 RPD: 10	116323-31	80%
Zinc	mg/kg	116323-58	55 61 RPD: 10	116323-31	80%

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	116323-58	18/09/2014 18/09/2014
Date analysed	-	116323-58	18/09/2014 18/09/2014
HCB	mg/kg	116323-58	<0.1 <0.1
alpha-BHC	mg/kg	116323-58	<0.1 <0.1
gamma-BHC	mg/kg	116323-58	<0.1 <0.1
beta-BHC	mg/kg	116323-58	<0.1 <0.1
Heptachlor	mg/kg	116323-58	<0.1 <0.1
delta-BHC	mg/kg	116323-58	<0.1 <0.1
Aldrin	mg/kg	116323-58	<0.1 <0.1
Heptachlor Epoxide	mg/kg	116323-58	<0.1 <0.1
gamma-Chlordane	mg/kg	116323-58	<0.1 <0.1
alpha-chlordane	mg/kg	116323-58	<0.1 <0.1
Endosulfan I	mg/kg	116323-58	<0.1 <0.1
pp-DDE	mg/kg	116323-58	<0.1 <0.1
Dieldrin	mg/kg	116323-58	<0.1 <0.1
Endrin	mg/kg	116323-58	<0.1 <0.1
pp-DDD	mg/kg	116323-58	<0.1 <0.1
Endosulfan II	mg/kg	116323-58	<0.1 <0.1
pp-DDT	mg/kg	116323-58	<0.1 <0.1
Endrin Aldehyde	mg/kg	116323-58	<0.1 <0.1
Endosulfan Sulphate	mg/kg	116323-58	<0.1 <0.1
Methoxychlor	mg/kg	116323-58	<0.1 <0.1
Surrogate TCMX	%	116323-58	83 81 RPD: 2

QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	116323-58	18/09/2014 18/09/2014
Date analysed	-	116323-58	18/09/2014 18/09/2014
Arochlor 1016	mg/kg	116323-58	<0.1 <0.1
Arochlor 1221	mg/kg	116323-58	<0.1 <0.1
Arochlor 1232	mg/kg	116323-58	<0.1 <0.1
Arochlor 1242	mg/kg	116323-58	<0.1 <0.1
Arochlor 1248	mg/kg	116323-58	<0.1 <0.1
Arochlor 1254	mg/kg	116323-58	<0.1 <0.1
Arochlor 1260	mg/kg	116323-58	<0.1 <0.1
Surrogate TCLMX	%	116323-58	83 81 RPD: 2

Report Comments:

Asbestos: Excessive sample volume was provided for asbestos analysis. A portion of the supplied sample was sub-sampled according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g (50mL) of sample in its own container as per AS4964-2004.

Sample 116323-7; The supplied sample was sub-sampled (116323-7A; brown fine grain soil & rocks, & 116323-7B; fibre cement fragment) in order to accurately report the analytical results representative of the entire sample, as per AS4964-2004.

PCB's in soil:PQL has been raised due to interference from analytes(other than those being tested) in the sample/s.

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

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
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.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

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

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

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

SAMPLE RECEIPT ADVICE

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC NSW 1670

ph: 02 9888 5000

Fax: 02 9888 5001

Attention: Mitch Delaney

Sample log in details:

Your reference:	E27556K, Austral
Envirolab Reference:	116323
Date received:	17/09/14
Date results expected to be reported:	24/09/14

Samples received in appropriate condition for analysis:	YES
No. of samples provided	60 soils 3 material
Turnaround time requested:	Standard
Temperature on receipt (°C)	17.5
Cooling Method:	Ice
Sampling Date Provided:	YES

Comments:

If there is sufficient sample after testing, samples will be held for the following time frames from date of receipt of samples:

Water samples - 1 month

Soil and other solid samples - 2 months

Samples collected in canisters - 1 week. Canisters will then be cleaned.

All other samples are not retained after analysis

If you require samples to be retained for longer periods then retention fees will apply as per our pricelist.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst

ph: 02 9910 6200 fax: 02 9910 6201

email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen	EIS Job E27556K Number: Date Results STANDARD Required: Page: 1/3	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Mitch Delaney
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Location:		Austral					Sample Preserved in Esky on Ice											
Sampler:		MD					Tests Required											
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos			
15/9/14	1	TP1	0-0.3	G, A	0	Soil				X								
↑	2	TP1	0.4-0.6	G	0	↑			X	X								
	3	TP2	0-0.3	GA	0					X								
	4	TP2	0.3-0.5	G	0													
	5	TP3	0-0.25	GA	0					X								
	6	TP3	0.3-0.5	G	0													
	7	TP4	0-0.2	GA	0					X								
	8	TP4	0.3-0.5	G	0				X									
	9	TP5	0-0.25	GA	0					X								
	10	TP5	0.3-0.5	G	0													
	11	TP6	0-0.25	GA	0					X								
	12	TP6	0.3-0.5	G	0													
	13	TP7	0-0.2	GA	0					X								
	14	TP7	0.2-0.4	G	0													
	15	TP8	0-0.2	GA	0					X								
	16	TP8	0.3-0.5	G	0													
	17	TP9	0-0.2	GA	0					X								
	18	TP9	0.3-0.5	G	0					X								
	19	TP10	0-0.15	GA	0						X							
	20	TP10	0.2-0.4	G	0													
	21	TP11	0-0.25	GA	0						X							
	22	TP11	0.3-0.5	G	0					X								
	23	TP12	0-0.25	GA	0						X							
	24	TP12	0.3-0.5	G	0													
15/9/14	25	TP13	0-0.2	GA	0	Soil				X								

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

ENVIROLAB

Job No: 116323

Date Received: 17/9/14

Time Received: 15:17:00

Received by: PT

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

Remarks (comments/detection limits required):		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By: <i>MD</i>	Date: <i>17/9/14</i>	Time: <i>am</i>	Received By: <i>PT</i>
		Date: <i>17/9/14</i>	

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SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen	EIS Job E27556K Number: Date Results STANDARD Required: Page: 2/3	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Mitch Delaney	
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Location: Austral							Sample Preserved in Esky on Ice										
Sampler: MD							Tests Required										
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos		
15/9/14	26	TP13	0.3-0.8	G	0	Soil											
	27	TP14	0-0.3	GA	0					X							
	28	TP14	0.4-0.6	G	0				X								
	29	TP15	0-0.2	GA	0					X							
	30	TP15	0.3-0.5	G	0				X								
	31	TP16	0-0.2	GA	0					X							
15/9/14	32	TP16	0.3-0.5	G	0												
16/9/14	33	TP17	0-0.2	GA	0					X							
	34	TP17	0.3-0.5	G	0				X								
	35	TP18	0-0.2	GA	0					X							
	36	TP18	0.3-0.5	G	0												
	37	TP19	0-0.2	GA	0					X							
	38	TP19	0.3-0.5	G	0												
	39	TP20	0-0.2	GA	0					X							
	40	TP20	0.3-0.5	G	0												
	41	TP21	0-0.2	GA	0					X							
	42	TP21	0.3-0.5	G	0				X								
	43	TP22	0-0.2	GA	0					X							
	44	TP22	0.3-0.5	G	0												
	45	TP23	0-0.2	GA	0					X							
	46	TP23	0.3-0.5	G	0				X								
	47	TP24	0-0.2	GA	0					X							
	48	TP24	0.3-0.5	G	0												
	49	TP25	0-0.2	GA	0					X							
	50	TP25	0.2-0.4	G	0	Soil											

Remarks (comments/detection limits required):		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag		116323	
Relinquished By: MD	Date: 17/9/14	Time: am	Received By: PT	Date: 17/9/14	

SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen	EIS Job E27556K Number: Date Results STANDARD Required: Page: 3/3	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Mitch Delaney
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Location:		Austral					Sample Preserved in Esky on Ice												
Sampler:		MD					Tests Required												
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos				
16/9/14	51	TP26	0-0.2	G, A	0	Soil				X									
↓	52	TP26	0.3-0.5	G	0	↓													
	53	TP27	0-0.3	GA	0					X									
16/9/14	54	TP27	0.3-0.5	G	0				X										
-	55	DUPA	-	G	-				X										
-	56	DUPB	-	G	-				X										
-	57	DUPC	-	G	-			X											
-	58	DUPD	-	G	-			X											
-	-	DUPE	-	G	-	↓			X										
-	-	DUPF	-	G	-				X										
-	59	TS1	-	G	-	Soil									X				
-	60	TB	-	G	-	Sand									X				
16/9/14	61	SS1	-	A	-	Material										X			
16/9/14	62	SS2	-	A	-	Material.										X			
16/9/14	63	B1	-	A	-	Material										X			

Remarks (comments/detection limits required):		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By: <i>MD</i>	Date: <i>17/9/14</i>	Time: <i>am</i>	Received By: <i>PT</i> Date: <i>17/9/14</i>

EIS

Please Send DUPE to Envirolab VIC

Please Send DUPF to Envirolab VIC

116323.

CERTIFICATE OF ANALYSIS

116323-A

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Mitch Delaney

Sample log in details:

Your Reference:

E27556K, Austral

No. of samples:

Additional Testing on 1 Soil

Date samples received / completed instructions received

17/09/14 / 24/09/14

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:

1/10/14 / 26/09/14

Date of Preliminary Report:

Not Issued

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:



Jacinta Hurst
Laboratory Manager

Metals in TCLP USEPA 1311		
Our Reference:	UNITS	116323-A-23
Your Reference	-----	TP12
Depth	-----	0-0.25
Date Sampled		15/09/2014
Type of sample		Soil
Date extracted	-	25/09/2014
Date analysed	-	25/09/2014
pH of soil for fluid# determ.	pH units	8.2
pH of soil for fluid # determ. (acid)	pH units	1.4
Extraction fluid used	-	1
pH of final Leachate	pH units	5.0
Lead in TCLP	mg/L	0.55

Method ID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311 and in house method INORG-004.
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.

Client Reference: E27556K, Austral

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	-			25/09/2014	[NT]	[NT]	LCS-W1	25/09/2014
Date analysed	-			25/09/2014	[NT]	[NT]	LCS-W1	25/09/2014
Lead in TCLP	mg/L	0.03	Metals-020 ICP-AES	<0.03	[NT]	[NT]	LCS-W1	94%

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.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

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

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

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Aileen Hie

From: Mitchell Delaney [mdelaney@jkgroup.net.au]
Sent: Wednesday, 24 September 2014 5:15 PM
To: Aileen Hie
Subject: Additional TCLP Analysis 116323 (EIS Ref E27556K Austral)

Hi Aileen,

Can I please schedule a TCLP analysis on s standard TA on the Sample TP12 0-0.25 for lead. ⁻²³

Any issues please contact me. Thanks.

Regards,

Mitchell Delaney
Environmental Scientist



Environmental Investigation Services

CONSULTING ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Tel: 02 9888 5000 PO Box 976 115 Wicks Road
Fax: 02 9888 5001 North Ryde BC NSW 1670 Macquarie Park NSW 2113
mdelaney@jkgroup.net.au
www.jkgeotechnics.com.au

Envirolab Ref: 116323 A
due: 1/10/14
std T/A.

CERTIFICATE OF ANALYSIS**4761****Client:****Environmental Investigation Services**

PO Box 976

North Ryde BC

NSW 1670

Attention: Mitch Delaney**Sample log in details:**

Your Reference:

E27556K - Austral

No. of samples:

2 soils

Date samples received / completed instructions received

19/09/2014 / 19/09/2014

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:

25/09/14 / 25/09/14

Date of Preliminary Report:

Not Issued

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.**Results Approved By:**

Analisa Mathrick

Laboratory Supervisor



Envirolab Reference: 4761

Revision No: R 00

Page 1 of 15

vTRH(C6-C10)/BTEXN in Soil			
Our Reference:	UNITS	4761-1	4761-2
Your Reference	-----	DUPE	DUPF
Date Sampled	-----	16/09/2014	16/09/2014
Type of sample		Soil	Soil
Date extracted	-	23/9/14	23/9/14
Date analysed	-	25/9/14	25/9/14
vTRHC ₆ - C ₉	mg/kg	<25	<25
vTRHC ₆ - C ₁₀	mg/kg	<25	<25
TRHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
naphthalene	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	88	92

TRH Soil C10-C40 NEPM			
Our Reference:	UNITS	4761-1	4761-2
Your Reference	-----	DUPE	DUPF
Date Sampled	-----	16/09/2014	16/09/2014
Type of sample		Soil	Soil
Date extracted	-	23/9/14	23/9/14
Date analysed	-	24/9/14	24/9/14
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH > C ₁₀ -C ₁₆	mg/kg	<50	<50
TRH > C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50
TRH > C ₁₆ -C ₃₄	mg/kg	<100	<100
TRH > C ₃₄ -C ₄₀	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	82	94

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	4761-1 DUPE 16/09/2014 Soil	4761-2 DUPF 16/09/2014 Soil
Date extracted	-	23/09/2014	23/09/2014
Date analysed	-	24/09/2014	24/09/2014
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	74	72

OCP in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	4761-1 DUPE 16/09/2014 Soil	4761-2 DUPF 16/09/2014 Soil
Date extracted	-	23/09/2014	23/09/2014
Date analysed	-	24/09/2014	24/09/2014
alpha-BHC	mg/kg	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1	<0.1
Surrogate TCMX	%	100	98

OP in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	4761-1 DUPE 16/09/2014 Soil	4761-2 DUPF 16/09/2014 Soil
Date extracted	-	23/09/2014	23/09/2014
Date analysed	-	24/09/2014	24/09/2014
Azinphos-methyl	mg/kg	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1
Dichlorovos	mg/kg	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1
Surrogate TCMX	%	100	98

PCBs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	4761-1 DUPE 16/09/2014 Soil	4761-2 DUPF 16/09/2014 Soil
Date extracted	-	23/09/2014	23/09/2014
Date analysed	-	24/09/2014	24/09/2014
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1
Surrogate TCLMX	%	100	98

Acid Extractable metals in soil			
Our Reference:	UNITS	4761-1	4761-2
Your Reference	-----	DUPE	DUPF
Date Sampled	-----	16/09/2014	16/09/2014
Type of sample		Soil	Soil
Date digested	-	23/9/14	23/9/14
Date analysed	-	23/9/14	23/9/14
Arsenic	mg/kg	11	12
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	20	20
Copper	mg/kg	29	14
Lead	mg/kg	24	16
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	11	10
Zinc	mg/kg	110	25

Moisture			
Our Reference:	UNITS	4761-1	4761-2
Your Reference	-----	DUPE	DUPF
Date Sampled	-----	16/09/2014	16/09/2014
Type of sample		Soil	Soil
Date prepared	-	23/09/2014	23/09/2014
Date analysed	-	24/09/2014	24/09/2014
Moisture	%	15	15

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. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-012	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-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-015	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
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 12 hours.

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/9/14	[NT]	[NT]	LCS	23/9/14
Date analysed	-			25/9/14	[NT]	[NT]	LCS	25/9/14
vTRHC ₆ - C ₉	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS	105%
vTRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS	98%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS	107%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS	101%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS	103%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS	106%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS	107%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	81	[NT]	[NT]	LCS	112%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
TRHSoilC10-C40NEPM						Base II Duplicate II %RPD		
Date extracted	-			23/9/14	[NT]	[NT]	LCS	23/9/14
Date analysed	-			24/9/14	[NT]	[NT]	LCS	24/9/14
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS	96%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS	96%
TRHC ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS	91%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS	97%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS	98%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS	91%
Surrogate o-Terphenyl	%		Org-003	78	[NT]	[NT]	LCS	88%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/09/2014	[NT]	[NT]	LCS	23/09/2014
Date analysed	-			24/09/2014	[NT]	[NT]	LCS	24/09/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS	95%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS	97%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS	97%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS	98%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS	104%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS	69%
Benzo(b,j&k) fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS	103%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	76	[NT]	[NT]	LCS	72%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/09/2014	[NT]	[NT]	LCS	23/09/2014
Date analysed	-			24/09/2014	[NT]	[NT]	LCS	24/09/2014
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	100%
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	99%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	94%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	110%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	99%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	102%
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	101%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	106%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	94%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	100%
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS	101%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	104	[NT]	[NT]	LCS	102%

Client Reference: E27556K - Austral

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OP in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/09/2014	[NT]	[NT]	LCS	23/09/2014
Date analysed	-			24/09/2014	[NT]	[NT]	LCS	24/09/2014
Azinphos-methyl	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Bromophos-ethyl	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	LCS	116%
Chlorpyrifos-methyl	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	LCS	100%
Diazinon	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	LCS	109%
Dichlorovos	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Dimethoate	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	LCS	98%
Fenitrothion	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	LCS	91%
Malathion	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Parathion	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Ronnel	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-015	104	[NT]	[NT]	LCS	102%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/09/2014	[NT]	[NT]	LCS	23/09/2014
Date analysed	-			24/09/2014	[NT]	[NT]	LCS	24/09/2014
Arochlor 1016	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS	107%
Arochlor 1260	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-015	104	[NT]	[NT]	LCS	102%

Client Reference: E27556K - Austral

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	-			23/9/14	[NT]	[NT]	LCS	23/9/14
Date analysed	-			23/9/14	[NT]	[NT]	LCS	23/9/14
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS	102%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS	102%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS	104%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS	104%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS	102%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS	108%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS	102%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS	103%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank				
Moisture								
Date prepared	-			[NT]				
Date analysed	-			[NT]				
Moisture	%	0.1	Inorg-008	[NT]				

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.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

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

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

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen	EIS Job E27556K Number: Date Results STANDARD Required: Page: 3/3	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Mitch Delaney
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Location: Austral		Sample Preserved in Esky on Ice																
Sampler: MD		Tests Required																
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos			
16/9/14	51	TP26	0-0.2	G, A	0	Soil				X								
↑	52	TP26	0.3-0.5	G	0	↓												
↓	53	TP27	0.0-0.3	GA	0						X							
16/9/14	54	TP27	0.3-0.5	G	0				X									
-	55	QUPA	-	G	-				X									
-	56	QUPB	-	G	-				X									
-	57	QUPC	-	G	-				X									
-	58	QUPD	-	G	-				X									
①	-	QUP E	-	G	-				X									
②	-	QUP F	-	G	-				X									
-	59	TS1	-	G	-		Sand											
-	60	TB	-	G	-	Sand												
16/9/14	61	SS1	-	A	-	Material												
16/9/14	62	SS2	-	A	-	Material												
16/9/14	63	B1	-	A	-	Material												

Please send QUP E to EnviroLab VIC
 Please send QUP F to EnviroLab VIC


 EnviroLab Services
 12 Dalmore Drive
 Caribbean Park
 Scoresby VIC 3179
 Ph: (03) 9163 2500

Job No: 4761
 Date Received: 19/9/2014
 Time Received: 05:15
 Received by: CA
 Temp: Cool/Ambient 15.5
 Cooling: Ice/Nochill
 Security: Intact/Broken/None

Remarks (comments/detection limits required):

Sample Containers:

G - 250mg Glass Jar
 A - Ziplock Asbestos Bag
 P - Plastic Bag

116323.

Relinquished By:

MO

Date:

17/9/14

Time:

am

Received By:

PT

Date:

17/9/14

LS - Budiarthy (ELS) 18/9/14 11-30

CERTIFICATE OF ANALYSIS

130374

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Mitch Delaney

Sample log in details:

Your Reference:

E27556K, Austral

No. of samples:

19 soils 2 material

Date samples received / completed instructions received

30/06/15 / 30/06/15

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:

7/07/15 / 6/07/15

Date of Preliminary Report:

Not Issued

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:



Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	130374-1	130374-2	130374-4	130374-6	130374-7
Your Reference	-----	TP28	TP28	TP29	TP30	TP30
Depth	-----	0-0.2	0.3-0.5	0-0.2	0-0.2	0.3-0.5
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015	02/07/2015	02/07/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	88	98	94	95	100

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	130374-8	130374-10	130374-12	130374-14	130374-15
Your Reference	-----	TP31	TP32	TP33	TP33	A
Depth	-----	0-0.2	0-0.1	0-0.2	0.7-0.9	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015	02/07/2015	02/07/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	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
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	93	89	99	89

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	130374-16	130374-17	130374-19	130374-20	130374-21
Your Reference	-----	B	C	DUPJDC1	TS1	TB1
Depth	-----	-	-	-	-	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015	02/07/2015	02/07/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	[NA]	[NA]
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	[NA]	[NA]
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	[NA]	[NA]
Benzene	mg/kg	<0.2	<0.2	<0.2	99%	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	99%	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	100%	<1
m+p-xylene	mg/kg	<2	<2	<2	99%	<2
o-Xylene	mg/kg	<1	<1	<1	99%	<1
naphthalene	mg/kg	<1	<1	<1	[NA]	[NA]
Surrogate aaa-Trifluorotoluene	%	99	98	94	85	89

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	130374-1 TP28 0-0.2 30/06/2015 Soil	130374-2 TP28 0.3-0.5 30/06/2015 Soil	130374-4 TP29 0-0.2 30/06/2015 Soil	130374-6 TP30 0-0.2 30/06/2015 Soil	130374-7 TP30 0.3-0.5 30/06/2015 Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
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
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	90	80	95	83	90

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	130374-8 TP31 0-0.2 30/06/2015 Soil	130374-10 TP32 0-0.1 30/06/2015 Soil	130374-12 TP33 0-0.2 30/06/2015 Soil	130374-14 TP33 0.7-0.9 30/06/2015 Soil	130374-15 A - 30/06/2015 Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
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
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	82	96	82	82	83

svTRH (C10-C40) in Soil				
Our Reference:	UNITS	130374-16	130374-17	130374-19
Your Reference	-----	B	C	DUPJDC1
Depth	-----	-	-	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	01/07/2015	01/07/2015	01/07/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100
Surrogate o-Terphenyl	%	82	92	94

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	130374-1 TP28 0-0.2 30/06/2015 Soil	130374-2 TP28 0.3-0.5 30/06/2015 Soil	130374-4 TP29 0-0.2 30/06/2015 Soil	130374-6 TP30 0-0.2 30/06/2015 Soil	130374-7 TP30 0.3-0.5 30/06/2015 Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
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,j+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
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	95	86	106	98	104

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	130374-8 TP31 0-0.2 30/06/2015 Soil	130374-10 TP32 0-0.1 30/06/2015 Soil	130374-12 TP33 0-0.2 30/06/2015 Soil	130374-14 TP33 0.7-0.9 30/06/2015 Soil	130374-15 A - 30/06/2015 Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
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,j+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
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	100	108	99	91	100

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	130374-16 B - 30/06/2015 Soil	130374-17 C - 30/06/2015 Soil	130374-19 DUPJDC1 - 30/06/2015 Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	01/07/2015	01/07/2015	01/07/2015
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	98	104	104

Organochlorine Pesticides in soil						
Our Reference:	UNITS	130374-1	130374-2	130374-4	130374-6	130374-7
Your Reference:	-----	TP28	TP28	TP29	TP30	TP30
Depth	-----	0-0.2	0.3-0.5	0-0.2	0-0.2	0.3-0.5
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015	02/07/2015	02/07/2015
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 TCMX	%	113	91	100	95	101

Organochlorine Pesticides in soil						
Our Reference:	UNITS	130374-8	130374-10	130374-12	130374-14	130374-15
Your Reference	-----	TP31	TP32	TP33	TP33	A
Depth	-----	0-0.2	0-0.1	0-0.2	0.7-0.9	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015	02/07/2015	02/07/2015
HCBC	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 TCMX	%	101	103	99	94	99

Organochlorine Pesticides in soil				
Our Reference:	UNITS	130374-16	130374-17	130374-19
Your Reference:	-----	B	C	DUPJDC1
Depth	-----	-	-	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015
HCBC	mg/kg	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1
Surrogate TCMX	%	99	102	104

Organophosphorus Pesticides						
Our Reference:	UNITS	130374-1	130374-2	130374-4	130374-6	130374-7
Your Reference	-----	TP28	TP28	TP29	TP30	TP30
Depth	-----	0-0.2	0.3-0.5	0-0.2	0-0.2	0.3-0.5
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015	02/07/2015	02/07/2015
Azinphos-methyl (Guthion)	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
Chlorpyrifos	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
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	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
Ethion	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
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	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
Surrogate TCMX	%	113	91	100	95	101

Organophosphorus Pesticides						
Our Reference:	UNITS	130374-8	130374-10	130374-12	130374-14	130374-15
Your Reference	-----	TP31	TP32	TP33	TP33	A
Depth	-----	0-0.2	0-0.1	0-0.2	0.7-0.9	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015	02/07/2015	02/07/2015
Azinphos-methyl (Guthion)	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
Chlorpyrifos	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
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	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
Ethion	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
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	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
Surrogate TCMX	%	101	103	99	94	99

Organophosphorus Pesticides				
Our Reference:	UNITS	130374-16	130374-17	130374-19
Your Reference	-----	B	C	DUPJDC1
Depth	-----	-	-	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Surrogate TCMX	%	99	102	104

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	130374-1 TP28 0-0.2 30/06/2015 Soil	130374-2 TP28 0.3-0.5 30/06/2015 Soil	130374-4 TP29 0-0.2 30/06/2015 Soil	130374-6 TP30 0-0.2 30/06/2015 Soil	130374-7 TP30 0.3-0.5 30/06/2015 Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015	02/07/2015	02/07/2015
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	113	91	100	95	101

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	130374-8 TP31 0-0.2 30/06/2015 Soil	130374-10 TP32 0-0.1 30/06/2015 Soil	130374-12 TP33 0-0.2 30/06/2015 Soil	130374-14 TP33 0.7-0.9 30/06/2015 Soil	130374-15 A - 30/06/2015 Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015	02/07/2015	02/07/2015
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	101	103	99	94	99

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	130374-16 B - 30/06/2015 Soil	130374-17 C - 30/06/2015 Soil	130374-19 DUPJDC1 - 30/06/2015 Soil
Date extracted	-	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	02/07/2015	02/07/2015	02/07/2015
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	99	102	104

Acid Extractable metals in soil						
Our Reference:	UNITS	130374-1	130374-2	130374-4	130374-6	130374-7
Your Reference	-----	TP28	TP28	TP29	TP30	TP30
Depth	-----	0-0.2	0.3-0.5	0-0.2	0-0.2	0.3-0.5
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Arsenic	mg/kg	12	11	7	7	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	25	17	22	19	16
Copper	mg/kg	22	26	26	26	32
Lead	mg/kg	28	14	35	22	13
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	19	11	20	14	11
Zinc	mg/kg	91	42	94	38	43

Acid Extractable metals in soil						
Our Reference:	UNITS	130374-8	130374-10	130374-12	130374-14	130374-15
Your Reference	-----	TP31	TP32	TP33	TP33	A
Depth	-----	0-0.2	0-0.1	0-0.2	0.7-0.9	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Arsenic	mg/kg	12	10	9	9	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	28	24	16	16	15
Copper	mg/kg	21	18	23	33	42
Lead	mg/kg	23	20	19	12	27
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	13	12	14	15
Zinc	mg/kg	41	38	51	53	100

Acid Extractable metals in soil					
Our Reference:	UNITS	130374-16	130374-17	130374-19	130374-22
Your Reference	-----	B	C	DUPJDC1	B - TRIPLICATE
Depth	-----	-	-	-	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil
Date digested	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Date analysed	-	01/07/2015	01/07/2015	01/07/2015	01/07/2015
Arsenic	mg/kg	6	8	12	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	25	25	18
Copper	mg/kg	19	20	19	21
Lead	mg/kg	22	26	25	23
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	14	17	18	15

Acid Extractable metals in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	130374-16 B - 30/06/2015 Soil	130374-17 C - 30/06/2015 Soil	130374-19 DUPJDC1 - 30/06/2015 Soil	130374-22 B - TRIPLICATE - 30/06/2015 Soil
Zinc	mg/kg	55	64	60	58

Moisture						
Our Reference:	UNITS	130374-1	130374-2	130374-4	130374-6	130374-7
Your Reference	-----	TP28	TP28	TP29	TP30	TP30
Depth	-----	0-0.2	0.3-0.5	0-0.2	0-0.2	0.3-0.5
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	1/07/2015	1/07/2015	1/07/2015	1/07/2015	1/07/2015
Date analysed	-	2/07/2015	2/07/2015	2/07/2015	2/07/2015	2/07/2015
Moisture	%	20	19	22	21	20

Moisture						
Our Reference:	UNITS	130374-8	130374-10	130374-12	130374-14	130374-15
Your Reference	-----	TP31	TP32	TP33	TP33	A
Depth	-----	0-0.2	0-0.1	0-0.2	0.7-0.9	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	1/07/2015	1/07/2015	1/07/2015	1/07/2015	1/07/2015
Date analysed	-	2/07/2015	2/07/2015	2/07/2015	2/07/2015	2/07/2015
Moisture	%	26	19	18	20	18

Moisture				
Our Reference:	UNITS	130374-16	130374-17	130374-19
Your Reference	-----	B	C	DUPJDC1
Depth	-----	-	-	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil
Date prepared	-	1/07/2015	1/07/2015	1/07/2015
Date analysed	-	2/07/2015	2/07/2015	2/07/2015
Moisture	%	16	16	20

Asbestos ID - soils						
Our Reference:	UNITS	130374-1	130374-4	130374-6	130374-8	130374-10
Your Reference	-----	TP28	TP29	TP30	TP31	TP32
Depth	-----	0-0.2	0-0.2	0-0.2	0-0.2	0-0.1
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	6/07/2015	6/07/2015	6/07/2015	6/07/2015	6/07/2015
Sample mass tested	g	Approx. 15g	Approx. 30g	Approx. 40g	Approx. 45g	Approx. 30g
Sample Description	-	Brown coarse grain soil & rocks	Brown coarse grain soil & rocks	Brown coarse grain soil & rocks	Brown coarse grain soil & rocks	Brown coarse grain soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils					
Our Reference:	UNITS	130374-12	130374-15	130374-16	130374-17
Your Reference	-----	TP33	A	B	C
Depth	-----	0-0.2	-	-	-
Date Sampled		30/06/2015	30/06/2015	30/06/2015	30/06/2015
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	6/07/2015	6/07/2015	6/07/2015	6/07/2015
Sample mass tested	g	Approx. 55g	Approx. 30g	Approx. 35g	Approx. 30g
Sample Description	-	Brown coarse grain soil & rocks	Brown coarse grain soil & rocks	Brown coarse grain soil & rocks	Brown coarse grain soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials			
Our Reference:	UNITS	130374-3	130374-18
Your Reference	-----	TP29	FJS1
Depth	-----	0.1	-
Date Sampled		30/06/2015	30/06/2015
Type of sample		material	material
Date analysed	-	3/07/2015	3/07/2015
Mass / Dimension of Sample	-	30x28x3mm	87x35x5mm
Sample Description	-	Beige fibre cement material	Beige fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected

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. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
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.
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+/-5 deg C for a minimum of 12 hours.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Soil						Base II Duplicate II %RPD		
Date extracted	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-3	01/07/2015
Date analysed	-			02/07/2015	130374-1	02/07/2015 02/07/2015	LCS-3	02/07/2015
TRHC ₆ - C ₉	mg/kg	25	Org-016	<25	130374-1	<25 <25	LCS-3	118%
TRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	130374-1	<25 <25	LCS-3	118%
Benzene	mg/kg	0.2	Org-016	<0.2	130374-1	<0.2 <0.2	LCS-3	119%
Toluene	mg/kg	0.5	Org-016	<0.5	130374-1	<0.5 <0.5	LCS-3	116%
Ethylbenzene	mg/kg	1	Org-016	<1	130374-1	<1 <1	LCS-3	117%
m+p-xylene	mg/kg	2	Org-016	<2	130374-1	<2 <2	LCS-3	118%
o-Xylene	mg/kg	1	Org-016	<1	130374-1	<1 <1	LCS-3	115%
naphthalene	mg/kg	1	Org-014	<1	130374-1	<1 <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	101	130374-1	88 95 RPD: 8	LCS-3	102%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH (C10-C40) in Soil						Base II Duplicate II %RPD		
Date extracted	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-3	01/07/2015
Date analysed	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-3	01/07/2015
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	130374-1	<50 <50	LCS-3	97%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	130374-1	<100 <100	LCS-3	99%
TRHC ₂₈ - C ₃₆	mg/kg	100	Org-003	<100	130374-1	<100 <100	LCS-3	100%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	130374-1	<50 <50	LCS-3	97%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	130374-1	<100 <100	LCS-3	99%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	130374-1	<100 <100	LCS-3	100%
Surrogate o-Terphenyl	%		Org-003	82	130374-1	90 86 RPD: 5	LCS-3	94%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-3	01/07/2015
Date analysed	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-3	01/07/2015
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	LCS-3	103%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	LCS-3	89%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	LCS-3	92%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	LCS-3	93%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	LCS-3	97%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	LCS-3	92%
Benzo(b,j+k) fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	130374-1	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	130374-1	<0.05 <0.05	LCS-3	89%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	104	130374-1	95 104 RPD: 9	LCS-3	93%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-3	01/07/2015
Date analysed	-			02/07/2015	130374-1	02/07/2015 02/07/2015	LCS-3	02/07/2015
HCB	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	96%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	94%
Heptachlor	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	98%
delta-BHC	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	103%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	97%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	97%
Dieldrin	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	101%
Endrin	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	112%
pp-DDD	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	106%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	LCS-3	99%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-005	101	130374-1	113 96 RPD: 16	LCS-3	92%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-3	01/07/2015
Date analysed	-			02/07/2015	130374-1	02/07/2015 02/07/2015	LCS-3	02/07/2015
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	LCS-3	100%
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	LCS-3	113%
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	LCS-3	114%
Dimethoate	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	LCS-3	120%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	LCS-3	102%
Malathion	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	LCS-3	91%
Parathion	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	LCS-3	109%
Ronnel	mg/kg	0.1	Org-008	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-008	101	130374-1	113 96 RPD: 16	LCS-3	102%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-3	01/07/2015
Date analysed	-			02/07/2015	130374-1	02/07/2015 02/07/2015	LCS-3	02/07/2015
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	130374-1	<0.1 <0.1	LCS-3	114%
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	130374-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	101	130374-1	113 96 RPD: 16	LCS-3	92%

Client Reference: E27556K, Austral

QUALITYCONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base Duplicate %RPD	Spike Sm#	Spike % Recovery
Date digested	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-8	01/07/2015
Date analysed	-			01/07/2015	130374-1	01/07/2015 01/07/2015	LCS-8	01/07/2015
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	130374-1	12 13 RPD: 8	LCS-8	111%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	130374-1	<0.4 <0.4	LCS-8	106%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	130374-1	25 33 RPD: 28	LCS-8	108%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	130374-1	22 18 RPD: 20	LCS-8	111%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	130374-1	28 26 RPD: 7	LCS-8	102%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	130374-1	<0.1 <0.1	LCS-8	89%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	130374-1	19 16 RPD: 17	LCS-8	104%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	130374-1	91 75 RPD: 19	LCS-8	104%
QUALITYCONTROL vTRH(C6-C10)/BTEXNin Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	130374-16		01/07/2015 01/07/2015		130374-2	01/07/2015	
Date analysed	-	130374-16		02/07/2015 02/07/2015		130374-2	02/07/2015	
TRHC ₆ - C ₉	mg/kg	130374-16		<25 <25		130374-2	117%	
TRHC ₆ - C ₁₀	mg/kg	130374-16		<25 <25		130374-2	117%	
Benzene	mg/kg	130374-16		<0.2 <0.2		130374-2	119%	
Toluene	mg/kg	130374-16		<0.5 <0.5		130374-2	116%	
Ethylbenzene	mg/kg	130374-16		<1 <1		130374-2	117%	
m+p-xylene	mg/kg	130374-16		<2 <2		130374-2	117%	
o-Xylene	mg/kg	130374-16		<1 <1		130374-2	115%	
naphthalene	mg/kg	130374-16		<1 <1		[NR]	[NR]	
Surrogate aaa- Trifluorotoluene	%	130374-16		99 99 RPD: 0		130374-2	101%	

Client Reference: E27556K, Austral

QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	130374-16	01/07/2015 01/07/2015	130374-2	01/07/2015
Date analysed	-	130374-16	01/07/2015 01/07/2015	130374-2	01/07/2015
TRHC ₁₀ - C ₁₄	mg/kg	130374-16	<50 <50	130374-2	98%
TRHC ₁₅ - C ₂₈	mg/kg	130374-16	<100 <100	130374-2	102%
TRHC ₂₉ - C ₃₆	mg/kg	130374-16	<100 <100	130374-2	61%
TRH>C ₁₀ -C ₁₆	mg/kg	130374-16	<50 <50	130374-2	98%
TRH>C ₁₆ -C ₃₄	mg/kg	130374-16	<100 <100	130374-2	102%
TRH>C ₃₄ -C ₄₀	mg/kg	130374-16	<100 <100	130374-2	61%
Surrogate o-Terphenyl	%	130374-16	82 84 RPD: 2	130374-2	100%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	130374-16	01/07/2015 01/07/2015	130374-2	01/07/2015
Date analysed	-	130374-16	01/07/2015 01/07/2015	130374-2	01/07/2015
Naphthalene	mg/kg	130374-16	<0.1 <0.1	130374-2	103%
Acenaphthylene	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	130374-16	<0.1 <0.1	130374-2	88%
Phenanthrene	mg/kg	130374-16	<0.1 <0.1	130374-2	92%
Anthracene	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	130374-16	<0.1 <0.1	130374-2	93%
Pyrene	mg/kg	130374-16	<0.1 <0.1	130374-2	97%
Benzo(a)anthracene	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	130374-16	<0.1 <0.1	130374-2	92%
Benzo(b,j,k)fluoranthene	mg/kg	130374-16	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	130374-16	<0.05 <0.05	130374-2	87%
Indeno(1,2,3-c,d)pyrene	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	130374-16	98 99 RPD: 1	130374-2	103%

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QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	130374-16	01/07/2015 01/07/2015	130374-2	01/07/2015
Date analysed	-	130374-16	02/07/2015 02/07/2015	130374-2	02/07/2015
HCB	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	130374-16	<0.1 <0.1	130374-2	97%
gamma-BHC	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	130374-16	<0.1 <0.1	130374-2	96%
Heptachlor	mg/kg	130374-16	<0.1 <0.1	130374-2	100%
delta-BHC	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	130374-16	<0.1 <0.1	130374-2	104%
Heptachlor Epoxide	mg/kg	130374-16	<0.1 <0.1	130374-2	99%
gamma-Chlordane	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	130374-16	<0.1 <0.1	130374-2	99%
Dieldrin	mg/kg	130374-16	<0.1 <0.1	130374-2	102%
Endrin	mg/kg	130374-16	<0.1 <0.1	130374-2	112%
pp-DDD	mg/kg	130374-16	<0.1 <0.1	130374-2	107%
Endosulfan II	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	130374-16	<0.1 <0.1	130374-2	102%
Methoxychlor	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	130374-16	99 102 RPD: 3	130374-2	93%

Client Reference: E27556K, Austral

QUALITYCONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	130374-16	01/07/2015 01/07/2015	130374-2	01/07/2015
Date analysed	-	130374-16	02/07/2015 02/07/2015	130374-2	02/07/2015
Azinphos-methyl (Guthion)	mg/kg	130374-16	<0.1 <0.1	130374-2	94%
Bromophos-ethyl	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	130374-16	<0.1 <0.1	130374-2	114%
Chlorpyriphos-methyl	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	130374-16	<0.1 <0.1	130374-2	111%
Dimethoate	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	130374-16	<0.1 <0.1	130374-2	118%
Fenitrothion	mg/kg	130374-16	<0.1 <0.1	130374-2	97%
Malathion	mg/kg	130374-16	<0.1 <0.1	130374-2	70%
Parathion	mg/kg	130374-16	<0.1 <0.1	130374-2	101%
Ronnel	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	130374-16	99 102 RPD: 3	130374-2	93%
QUALITYCONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	130374-16	01/07/2015 01/07/2015	130374-2	01/07/2015
Date analysed	-	130374-16	02/07/2015 02/07/2015	130374-2	02/07/2015
Aroclor 1016	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	130374-16	<0.1 <0.1	130374-2	112%
Aroclor 1260	mg/kg	130374-16	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	130374-16	99 102 RPD: 3	130374-2	81%
QUALITYCONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	130374-16	01/07/2015 01/07/2015	130374-2	01/07/2015
Date analysed	-	130374-16	01/07/2015 01/07/2015	130374-2	01/07/2015
Arsenic	mg/kg	130374-16	6 7 RPD: 15	130374-2	89%
Cadmium	mg/kg	130374-16	<0.4 <0.4	130374-2	98%
Chromium	mg/kg	130374-16	16 21 RPD: 27	130374-2	92%
Copper	mg/kg	130374-16	19 26 RPD: 31	130374-2	109%
Lead	mg/kg	130374-16	22 28 RPD: 24	130374-2	88%
Mercury	mg/kg	130374-16	<0.1 <0.1	130374-2	87%
Nickel	mg/kg	130374-16	14 16 RPD: 13	130374-2	91%
Zinc	mg/kg	130374-16	55 100 RPD: 58	130374-2	87%

Report Comments:

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteria has been exceeded for 130374-16 for Zn. Therefore a triplicate result has been issued as laboratory sample number 130374-22.

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

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
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.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

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

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

SAMPLE RECEIPT ADVICE

Client Details	
Client	Environmental Investigation Services
Attention	Mitch Delaney

Sample Login Details	
Your Reference	E27556K, Austral
Envirolab Reference	130374
Date Sample Received	30/06/2015
Date Instructions Received	30/06/2015
Date Results Expected to be Reported	07/07/2015

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	19 soils 2 material
Turnaround Time Requested	Standard
Temperature on receipt (°C)	10.2
Cooling Method	Ice
Sampling Date Provided	YES

Comments
Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolabservices.com.au	Email: jhurst@envirolabservices.com.au

Sample and Testing Details on following page

Sample Id	Acid Extractable metals in soil	Asbestos ID - materials	Asbestos ID - soils	Organochlorine Pesticides in soil	Organophosphorus Pesticides	PAHs in Soil	PCBs in Soil	svTRH (C10-C40) in Soil	vTRH(C6-C10)/BTEXN in Soil	On Hold
TP28-0-0.2	✓		✓	✓	✓	✓	✓	✓	✓	
TP28-0.3-0.5	✓			✓	✓	✓	✓	✓	✓	
TP29-0.1		✓								
TP29-0-0.2	✓		✓	✓	✓	✓	✓	✓	✓	
TP29-0.3-0.5										✓
TP30-0-0.2	✓		✓	✓	✓	✓	✓	✓	✓	
TP30-0.3-0.5	✓			✓	✓	✓	✓	✓	✓	
TP31-0-0.2	✓		✓	✓	✓	✓	✓	✓	✓	
TP31-0.4-0.5										✓
TP32-0-0.1	✓		✓	✓	✓	✓	✓	✓	✓	
TP32-0.2-0.4										✓
TP33-0-0.2	✓		✓	✓	✓	✓	✓	✓	✓	
TP33-0.5-0.7										✓
TP33-0.7-0.9	✓			✓	✓	✓	✓	✓	✓	
A	✓		✓	✓	✓	✓	✓	✓	✓	
B	✓		✓	✓	✓	✓	✓	✓	✓	
C	✓		✓	✓	✓	✓	✓	✓	✓	
FJS1		✓								
DUPJDC1	✓			✓	✓	✓	✓	✓	✓	
TS1									✓	
TB1									✓	