

ENVIRONMENTAL LOG

Borehole No.
107
1/1

Environmental logs are not to be used for geotechnical purposes

Client: WOOLACOTTS CONSULTING ENGINEERS												
Project: PROPOSED ORAN PARK HIGH SCHOOL												
Location: SOUTH CIRCUIT, ORAN PARK, NSW												
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A												
Date: 17/1/17 Datum:												
Logged/Checked by: K.T./G.F.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION					0			FILL: Sandy gravel, fine to coarse grained igneous, grey brown, with concrete fragments, trace of root fibres and silty clay.	D			
				0.5			FILL: Silty clay, medium to high plasticity, dark brown, with fine to coarse grained igneous and ironstone gravel.	MC<PL				
				1			FILL: Silty clay, medium to high plasticity, brown.					
					1		CL-CH	SILTY CLAY: medium to high plasticity, red brown, with trace of root fibres.	MC<PL			
					1.5			END OF BOREHOLE AT 1.5m				
					2							
					2.5							
					3							
					3.5							

Borehole No.
108

1/1

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Client: WOOLACOTTS CONSULTING ENGINEERS													
Project: PROPOSED ORAN PARK HIGH SCHOOL													
Location: SOUTH CIRCUIT, ORAN PARK, NSW													
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A													
Date: 17/1/17 Datum:													
Logged/Checked by: K.T./G.F.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPLETION						0			FILL: Silty sand, fine to medium grained, dark brown, with fine to medium grained ironstone gravel and root fibres.	D			GRASS COVER
					0.5			FILL: Silty clay, medium to high plasticity, red brown, with root fibres.	MC<PL				
						1							
						1.5							
						2		CL-CH	SILTY CLAY: medium to high plasticity, red brown, with root fibres.	MC<PL			
						2.5							
						3			END OF BOREHOLE AT 2.7m				REFUSAL
						3.5							

ENVIRONMENTAL LOG

Borehole No.
109
1/1

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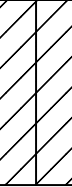
Client: WOOLACOTTS CONSULTING ENGINEERS												
Project: PROPOSED ORAN PARK HIGH SCHOOL												
Location: SOUTH CIRCUIT, ORAN PARK, NSW												
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A												
Date: 17/1/17 Datum:												
Logged/Checked by: K.T./G.F.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION					0			FILL: Sandy silty clay, medium to high plasticity, brown, fine to medium grained sand, trace of ironstone gravel, ash, and root fibres.	MC<PL			
					0.5		FILL: Silty clay, medium to high plasticity, dark grey brown, with trace of fine to medium grained ironstone gravel, and root fibres.					
					1							
					1.5			as above, but light brown.				
					2		CL-CH	SILTY CLAY: medium to high plasticity, red brown, trace of root fibres.	MC<PL			
					2.15			END OF BOREHOLE AT 2.15m				
					2.5							
					3							
					3.5							

Borehole No.
110

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ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: WOOLACOTTS CONSULTING ENGINEERS												
Project: PROPOSED ORAN PARK HIGH SCHOOL												
Location: SOUTH CIRCUIT, ORAN PARK, NSW												
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A												
Date: 17/1/17 Datum:												
Logged/Checked by: K.T./G.F.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION	█	█	█		0			FILL: Sandy silty clay, medium to high plasticity, brown, with root fibres. FILL: Silty clay, medium to high plasticity, red brown and grey brown, with trace of ash and root fibres.	MC<PL			GRASS COVER
	█	█	█		0.5							
					1							
					1.5							
					2		CL-CH	SILTY CLAY: medium to high plasticity, red brown, with trace of root fibres.	MC<PL			
					2.5			END OF BOREHOLE AT 2.1m				
					3							
					3.5							

ENVIRONMENTAL LOG

Borehole No.
111
1/1

Environmental logs are not to be used for geotechnical purposes

Client: WOOLACOTTS CONSULTING ENGINEERS

Project: PROPOSED ORAN PARK HIGH SCHOOL

Location: SOUTH CIRCUIT, ORAN PARK, NSW

Job No. E29593K

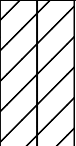
Date: 17/1/17

Method: EZIPROBE

Logged/Checked by: K.T./G.F.

R.L. Surface: N/A

Datum:

Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION					0			FILL: Silty clay, medium to high plasticity, brown, with root fibres.	MC<PL			
				0.5	as above, but with medium to coarse grained igneous and ironstone gravel.							
				1	FILL: Silty clay, medium to high plasticity, red brown.							
				1.5								
					2		CL-CH	SILTY CLAY: medium to high plasticity, red brown, trace of root fibres.	MC<PL			
					2.5			END OF BOREHOLE AT 2.2m				
					3							
					3.5							

ENVIRONMENTAL LOG

Borehole No.
112
1/1

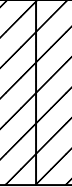
Environmental logs are not to be used for geotechnical purposes

Client: WOOLACOTTS CONSULTING ENGINEERS												
Project: PROPOSED ORAN PARK HIGH SCHOOL												
Location: SOUTH CIRCUIT, ORAN PARK, NSW												
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A												
Date: 17/1/17 Datum:												
Logged/Checked by: K.T./G.F.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION					0			FILL: Sandy silty clay, medium to high plasticity, brown, with root fibres.	MC<PL			GRASS COVER
					0.5		FILL: Silty clay, medium to high plasticity, brown, with trace of fine to medium grained ironstone gravel, and root fibres.					
					1							
					1.5		CL-CH	SILTY CLAY: medium to high plasticity, red brown, trace of root fibres.	MC<PL			
				2								
					2.5			END OF BOREHOLE AT 2.1m				
					3							
					3.5							

ENVIRONMENTAL LOG

Borehole No.
113
1/1

Environmental logs are not to be used for geotechnical purposes

Client: WOOLACOTTS CONSULTING ENGINEERS												
Project: PROPOSED ORAN PARK HIGH SCHOOL												
Location: SOUTH CIRCUIT, ORAN PARK, NSW												
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A												
Date: 17/1/17 Datum:												
Logged/Checked by: K.T./G.F.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION					0			FILL: Sandy silty clay, medium to high plasticity, brown, with fine to medium grained ironstone gravel, and root fibres.	MC<PL			GRASS COVER
				0.5	FILL: Silty clay, medium to high plasticity, brown grey, with fine to medium grained igneous and ironstone gravel.							
				1	FILL: Silty clay, medium to high plasticity, brown, trace of fine to medium grained ironstone gravel.							
				1.5								
					2		CL-CH	SILTY CLAY: medium to high plasticity, red brown, trace of root fibres.	MC<PL			
					2.5			END OF BOREHOLE AT 2.1m				
					3							
					3.5							

ENVIRONMENTAL LOG

Borehole No.
114
1/1

Environmental logs are not to be used for geotechnical purposes

Client: WOOLACOTTS CONSULTING ENGINEERS												
Project: PROPOSED ORAN PARK HIGH SCHOOL												
Location: SOUTH CIRCUIT, ORAN PARK, NSW												
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A												
Date: 17/1/17 Datum:												
Logged/Checked by: K.T./G.F.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION					0			FILL: Sandy silty clay, medium to high plasticity, brown, with trace of ash and root fibres.	MC<PL			GRASS COVER
				0.5	FILL: Silty clay, medium to high plasticity, brown, with fine to medium grained ironstone gravel, and trace of root fibres.							
				1	as above, but grey.							
				1.5								
				2								
				2.5		CL-CH		SILTY CLAY: medium to high plasticity, brown and grey, trace of root fibres.	MC<PL			
				3				END OF BOREHOLE AT 2.95m				
				3.5								

ENVIRONMENTAL LOG

Borehole No.
115
1/1

Environmental logs are not to be used for geotechnical purposes

Client: WOOLACOTTS CONSULTING ENGINEERS												
Project: PROPOSED ORAN PARK HIGH SCHOOL												
Location: SOUTH CIRCUIT, ORAN PARK, NSW												
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A												
Date: 17/1/17 Datum:												
Logged/Checked by: K.T./G.F.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION					0			FILL: Sandy silty clay, medium to high plasticity, brown, with fine to medium grained ironstone gravel, trace of ash and root fibres.	MC<PL			GRASS COVER
				0.5	FILL: Silty clay, medium to high plasticity, red brown, with fine to medium grained ironstone gravel.							
					1							
					1.5							
					2		CL-CH	SILTY CLAY: medium to high plasticity, red brown.	MC<PL			
					2.5			END OF BOREHOLE AT 2.1m				REFUSAL
					3							
					3.5							

ENVIRONMENTAL LOG

Borehole No.
116
1/1

Environmental logs are not to be used for geotechnical purposes

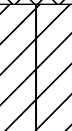
Client: WOOLACOTTS CONSULTING ENGINEERS Project: PROPOSED ORAN PARK HIGH SCHOOL Location: SOUTH CIRCUIT, ORAN PARK, NSW												
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A Date: 17/1/17 Datum: Logged/Checked by: K.T./G.F.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION					0			FILL: Sandy silty clay, medium to high plasticity, brown, with root fibres.	MC<PL			GRASS COVER
				0.5	FILL: Silty clay, medium to high plasticity, brown, with fine to medium grained ironstone gravel, and trace of root fibres.							
					1							
					1.5							
					2		CL-CH	SILTY CLAY: medium to high plasticity, red brown.	MC<PL			
					2.15			END OF BOREHOLE AT 2.15m				
					2.5							
					3							
					3.5							

Borehole No.
117

1/1

ENVIRONMENTAL LOG

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Client: WOOLACOTTS CONSULTING ENGINEERS												
Project: PROPOSED ORAN PARK HIGH SCHOOL												
Location: SOUTH CIRCUIT, ORAN PARK, NSW												
Job No. E29593K Method: EZIPROBE R.L. Surface: N/A												
Date: 17/1/17 Datum:												
Logged/Checked by: K.T./G.F.												
Groundwater Record	SAMPLES			Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	SAL									
DRY ON COMPLETION					0			FILL: Sandy silty clay, medium to high plasticity, with fine to medium grained ironstone and igneous gravel, and root fibres.	MC<PL			
					0.5		FILL: Silty clay, medium to high plasticity, brown, with trace of fine to medium grained ironstone gravel, and ash.					
					1							
					1.5							
					2		CL-CH	SILTY CLAY: medium to high plasticity, red brown, trace of root fibres.	MC<PL			
					2.05			END OF BOREHOLE AT 2.05m				
					2.5							
					3							
					3.5							

EXPLANATORY NOTES – ENVIRONMENTAL LOGS

INTRODUCTION

These notes have been provided to supplement the environmental report with regards to drilling and field logging. Not all notes are necessarily relevant to all reports. Where geotechnical borehole logs are utilised for environmental purpose, reference should also be made to the explanatory notes included in the geotechnical report. Environmental logs are not suitable for geotechnical purposes.

The ground is a product of continuing natural and manmade processes and therefore exhibits a variety of characteristics and properties which vary from place to place and can change with time. Environmental studies involve gathering and assimilating limited facts about these characteristics and properties in order to understand the ground on a particular site under certain conditions. These conditions are directly relevant only to the ground at the place where, and time when, the investigation was carried out.

DESCRIPTION AND CLASSIFICATION METHODS

The methods of description and classification of soils and rocks used in this report are based on Australian Standard 1726, the SAA Site Investigation Code. In general, descriptions cover the following properties – soil or rock type, colour, structure, strength or density, and inclusions. Identification and classification of soil and rock involves judgement and the Company infers accuracy only to the extent that is common in current geotechnical practice.

Soil types are described according to the predominating particle size and behaviour as set out in the attached Unified Soil Classification Table qualified by the grading of other particles present (e.g. sandy clay) as set out below (note that unless stated in the report, the soil classification is based on a qualitative field assessment, not laboratory testing):

Soil Classification	Particle Size
Clay	less than 0.002mm
Silt	0.002 to 0.075mm
Sand	0.075 to 2mm
Gravel	2 to 60mm

Non-cohesive soils are classified on the basis of relative density, generally from the results of Standard Penetration Test (SPT) as below:

Relative Density	SPT 'N' Value (blows/300mm)
Very loose	less than 4
Loose	4 – 10
Medium dense	10 – 30
Dense	30 – 50
Very Dense	greater than 50

Cohesive soils are classified on the basis of strength (consistency) either by use of hand penetrometer, laboratory testing or engineering examination. The strength terms are defined as shown in the following table:

Classification	Unconfined Compressive Strength kPa
Very Soft	less than 25
Soft	25 – 50
Firm	50 – 100
Stiff	100 – 200
Very Stiff	200 – 400
Hard	Greater than 400
Friable	Strength not attainable – soil crumbles

Rock types are classified by their geological names, together with descriptive terms regarding weathering, strength, defects, etc. Where relevant, further information regarding rock classification is given in the text of the report. In the Sydney Basin, 'Shale' is used to describe thinly bedded to laminated siltstone.

DRILLING OR EXCAVATION METHODS

The following is a brief summary of drilling and excavation methods currently adopted by the Company, and some comments on their use and application. All except test pits and hand auger drilling require the use of a mechanical drilling rig.

Test Pits: These are normally excavated with a backhoe or a tracked excavator, allowing close examination of the in-situ soils if it is safe to descend into the pit. The depth of penetration is limited to approximately 3m for a backhoe and up to 6m for an excavator. Limitations of test pits include problems associated with disturbance and difficulty of reinstatement; and the consequent effects on nearby structures. Care must be taken if construction is to be carried out near test pit locations to either properly re-compact the backfill during construction, or to design and construct the structure so as not to be adversely affected by poorly compacted backfill at the test pit location.

Hand Auger Drilling: A borehole of 50mm to 100mm diameter is advanced by manually operated equipment. Premature refusal of the hand augers can occur on a variety of materials such as fill, hard clay, gravel or ironstone, and does not necessarily indicate rock level.

Continuous Spiral Flight Augers: The borehole is advanced using 75mm to 115mm diameter continuous spiral flight augers, which are withdrawn at intervals to allow sampling and in-situ testing. This is a relatively economical means of drilling in clays and in sands above the water table. Samples are returned to the surface by the flights or may be collected after withdrawal of the auger flights, but they can be very disturbed and layers may become mixed. Information from the auger sampling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively lower reliability due to mixing or softening of samples by groundwater, or uncertainties as to the original depth of the samples. Augering below the groundwater table is of even lesser reliability than augering above the water table.

Rock Augering: Use can be made of a Tungsten Carbide (TC) bit for auger drilling into rock to indicate rock quality and continuity by variation in drilling resistance and from examination of recovered rock fragments. This method of investigation is quick and relatively inexpensive but provides only an indication of the likely rock strength and predicted values may be in error by a strength order. Where rock strengths may have a significant impact on construction feasibility or costs, then further investigation by means of cored boreholes may be warranted.

Wash Boring: The borehole is usually advanced by a rotary bit, with water being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from "feel" and rate of penetration.

Mud Stabilised Drilling: Either Wash Boring or Continuous Core Drilling can use drilling mud as a circulating fluid to stabilise the borehole. The term 'mud' encompasses a range of products ranging from bentonite to polymers such as Revert or Biogel. The mud tends to mask the cuttings and reliable identification is only possible from intermittent intact sampling (e.g. from SPT and U50 samples) or from rock coring, etc.

Continuous Core Drilling: A continuous core sample is obtained using a diamond tipped core barrel. Provided full core recovery is achieved (which is not always possible in very low strength rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation. In rocks, an NMLC triple tube core barrel, which gives a core of about 50mm diameter, is usually used with water flush. The length of core recovered is compared to the length drilled and any length not recovered is shown as CORE LOSS. The locations of losses are determined on site by the supervising engineer; where the location is uncertain, the loss is placed at the top end of the drill run.

Standard Penetration Tests: Standard Penetration Tests (SPT) are used mainly in non-cohesive soils, but can also be used in cohesive soils as a means of indicating density or strength and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, "Methods of Testing Soils for Engineering Purposes" – Test F3.1.

The test is carried out in a borehole by driving a 50mm diameter split sample tube with a tapered shoe, under the impact of a 63kg hammer with a free fall of 760mm. It is normal for the tube to be driven in three successive 150mm increments and the 'N' value is taken as the number of blows for the last 300mm. In dense sands, very hard clays or weak rock, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

- In the case where full penetration is obtained with successive blow counts for each 150mm of, say, 4, 6 and 7 blows, as: $N = 13 (4, 6, 7)$
- In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm, as: $N > 30 (15, 30/40\text{mm})$

The results of the test can be related empirically to the engineering properties of the soil. Occasionally, the drop hammer is used to drive 50mm diameter thin walled sample tubes (U50) in clays. In such circumstances, the test results are shown on the borehole logs in brackets.

A modification to the SPT test is where the same driving system is used with a solid 60 tipped steel cone of the same diameter as the SPT hollow sampler. The solid cone can be continuously driven for some distance in soft clays or loose sands, or may be used where damage would otherwise occur to the SPT. The results of this Solid Cone Penetration Test (SCPT) are shown as "Nc" on the borehole logs, together with the number of blows per 150mm penetration.

LOGS

The borehole or test pit logs presented herein are an interpretation of the subsurface conditions, and their reliability will depend to some extent on the frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will enable the most reliable assessment, but is not always practicable or possible to justify on economic grounds. In any case, the boreholes or test pits represent only a very small sample of the total subsurface conditions.

The attached explanatory notes define the terms and symbols used in preparation of the logs.

Interpretation of the information shown on the logs, and its application to design and construction, should therefore take into account the spacing of boreholes or test pits, the method of drilling or excavation, the frequency of sampling and testing and the possibility of other than "straight line"

variations between the boreholes or test pits. Subsurface conditions between boreholes or test pits may vary significantly from conditions encountered at the borehole or test pit locations.

GROUNDWATER

Where groundwater levels are measured in boreholes, there are several potential problems:

- Although groundwater may be present, in low permeability soils it may enter the hole slowly or perhaps not at all during the time it is left open;
- A localised perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes and may not be the same at the time of construction; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must be washed out of the hole or 'reverted' chemically if water observations are to be made.

More reliable measurements can be made by installing standpipes which are read after stabilising at intervals ranging from several days to perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from perched water tables or surface water.

FILL

The presence of fill materials can often be determined only by the inclusion of foreign objects (e.g. bricks, concrete, plastic, slag/ash, steel etc) or by distinctly unusual colour, texture or fabric. Identification of the extent of fill materials will also depend on investigation methods and frequency. Where natural soils similar to those at the site are used for fill, it may be difficult with limited testing and sampling to reliably determine the extent of the fill.

The presence of fill materials is usually regarded with caution as the possible variation in density, strength and material type is much greater than with natural soil deposits. If the volume and quality of fill is of importance to a project, then frequent test pit excavations are preferable to boreholes

LABORATORY TESTING

Laboratory testing has not been undertaken to confirm the soil classifications and rocks strengths indicated on the environmental logs unless noted in the report.

SITE ANOMALIES

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, EIS should be notified immediately.

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	
 SILTY CLAY (CL, CH)	 GRANITE, GABBRO	
 CLAYEY SAND (SC)	 DOLERITE, DIORITE	
 SILTY SAND (SM)	 BASALT, ANDESITE	
 GRAVELLY CLAY (CL, CH)	 QUARTZITE	
 CLAYEY GRAVEL (GC)		
 SANDY SILT (ML)		
 PEAT AND ORGANIC SOILS		
		OTHER MATERIALS
		 CONCRETE
		 BITUMINOUS CONCRETE, COAL
		 COLLUVIUM

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 smaller than 380 μm Sieve Size)	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		
		Medium to high	None to very slow	Slight to medium	OH	Organic clays of medium to high plasticity		
	Silt and clays liquid limit greater than 50	Readily identified by colour, odour, spongy feel and frequently by fibrous texture			Pt	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

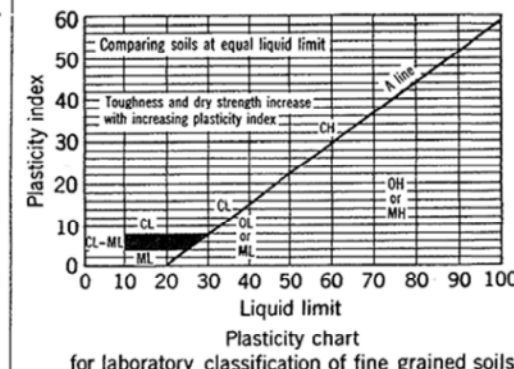
OH or MH

Liquid limit

Plasticity chart for laboratory classification of fine grained soils

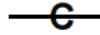
Determine percentages of gravel and sand from grain size curve
Depending on percentage of fines (fraction smaller than 75 µm sieve size) coarse grained soils are classified as follows:
Less than 5% GW, GP, SW, SP
More than 5% GM, GC, SM, SC
Borderline cases requiring use of dual symbols

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 ()	Density Index (ID) Range (%) Very Loose < 15 Loose 15-35 Medium Dense 35-65 Dense 65-85 Very Dense > 85 Bracketed symbol indicates estimated density based on ease of drilling or other tests.	
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 & COC Documents



12 Ashley Street, Chatswood, NSW 2067
tel: +61 2 9910 6200

email: sydney@envirolab.com.au
envirolab.com.au

Envirolab Services Pty Ltd - Sydney | ABN 37 112 535 645

CERTIFICATE OF ANALYSIS

151783

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: K Taylor

Sample log in details:

Your Reference:

E29593K, Oran Park

No. of samples:

42 soils

Date samples received / completed instructions received

12/08/16

/ 12/08/16

This report supersedes the previous report R00 due to an amendment to client sample ID's (ELS 38-40)

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:

19/08/16

/ 25/08/16

Date of Preliminary Report:

Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing

Tests not covered by NATA are denoted with *.

Results Approved By:

David Springer
General Manager



Envirolab Reference: 151783

Revision No: R 01

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference	UNITS ----- -	151783-1 BH1	151783-2 BH2	151783-3 BH1	151783-4 BH3	151783-8 BH4
Depth	-----	0.1-0.3	0.2-0.5	3-3.45	0-0.4	2.5-3.0
Date Sampled		8/08/2016	8/08/2016	8/08/2016	11/08/2016	10/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	107	105	110	105	109

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference	UNITS ----- -	151783-12 BH6	151783-15 BH7	151783-18 BH8	151783-19 BH8	151783-20 BH9
Depth	-----	0-0.05	0.1-0.3	0.5-1.0	1.7-2.0	0.2-0.5
Date Sampled		11/08/2016	9/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	101	102	106	104	92

vTRH(C6-C10)/BTEXN in Soil	UNITS	151783-21	151783-22	151783-23	151783-24	151783-28
Our Reference:	-----	BH10	BH10	BH11	BH11	BH13
Your Reference	-					
Depth	-----	0-0.2	1.4-1.6	0.5-1.0	1.5-1.7	0.2-0.4
Date Sampled		10/08/2016	10/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	104	108	103	105	107

vTRH(C6-C10)/BTEXN in Soil	UNITS	151783-29	151783-30	151783-31	151783-34	151783-35
Our Reference:	-----	BH13	BH14	BH15	BH16	BH17
Your Reference	-					
Depth	-----	3.0-3.45	0.2-0.5	0.1-0.3	0.6-0.7	0-0.1
Date Sampled		11/08/2016	11/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	104	106	100	108	104

vTRH(C6-C10)/BTEXN in Soil	UNITS	151783-36	151783-37	151783-38	151783-39	151783-40
Our Reference:	-----	BH18	BH18	TP19	TP20	TP21
Your Reference	-					
Depth	-----	0.5-0.95	2.0-2.2	0.1-0.4	0.2-0.5	0.1-0.4
Date Sampled		5/08/2016	5/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	105	107	105	100	101

vTRH(C6-C10)/BTEXN in Soil	UNITS	151783-41	151783-42
Our Reference:	-----	TB	DUPTC1
Your Reference	-		
Depth	-----	-	-
Date Sampled		5/08/2016	5/08/2016
Type of sample		SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016
TRHC ₆ - C ₉	mg/kg	[NA]	<25
TRHC ₆ - C ₁₀	mg/kg	[NA]	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	[NA]	<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	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	109	103

svTRH (C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151783-1 BH1	151783-2 BH2	151783-3 BH1	151783-4 BH3	151783-8 BH4
Depth	-----	0.1-0.3	0.2-0.5	3-3.45	0-0.4	2.5-3.0
Date Sampled		8/08/2016	8/08/2016	8/08/2016	11/08/2016	10/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
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	%	85	95	87	94	84

svTRH (C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151783-12 BH6	151783-15 BH7	151783-18 BH8	151783-19 BH8	151783-20 BH9
Depth	-----	0-0.05	0.1-0.3	0.5-1.0	1.7-2.0	0.2-0.5
Date Sampled		11/08/2016	9/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
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	%	83	82	82	84	84

svTRH (C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151783-21 BH10	151783-22 BH10	151783-23 BH11	151783-24 BH11	151783-28 BH13
Depth	-----	0-0.2	1.4-1.6	0.5-1.0	1.5-1.7	0.2-0.4
Date Sampled		10/08/2016	10/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
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	%	81	82	80	80	81

svTRH (C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151783-29 BH13	151783-30 BH14	151783-31 BH15	151783-34 BH16	151783-35 BH17
Depth	-----	3.0-3.45	0.2-0.5	0.1-0.3	0.6-0.7	0-0.1
Date Sampled		11/08/2016	11/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
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	%	81	78	94	96	96

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- - -----	151783-36 BH18 0.5-0.95 5/08/2016 SOIL	151783-37 BH18 2.0-2.2 5/08/2016 SOIL	151783-38 TP19 0.1-0.4 5/08/2016 SOIL	151783-39 TP20 0.2-0.5 5/08/2016 SOIL	151783-40 TP21 0.1-0.4 5/08/2016 SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	100	95	95	90	91

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- - -----	151783-42 DUPTC1 - 5/08/2016 SOIL
Date extracted	-	15/08/2016
Date analysed	-	16/08/2016
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	%	93

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151783-1 BH1	151783-2 BH2	151783-3 BH1	151783-4 BH3	151783-8 BH4
Depth	-----	0.1-0.3	0.2-0.5	3-3.45	0-0.4	2.5-3.0
Date Sampled		8/08/2016	8/08/2016	8/08/2016	11/08/2016	10/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
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	%	105	94	96	96	91

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151783-12 BH6	151783-15 BH7	151783-18 BH8	151783-19 BH8	151783-20 BH9
Depth	-----	0-0.05	0.1-0.3	0.5-1.0	1.7-2.0	0.2-0.5
Date Sampled		11/08/2016	9/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
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	%	98	97	98	96	95

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151783-21 BH10	151783-22 BH10	151783-23 BH11	151783-24 BH11	151783-28 BH13
Depth	-----	0-0.2	1.4-1.6	0.5-1.0	1.5-1.7	0.2-0.4
Date Sampled		10/08/2016	10/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
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	%	89	95	95	91	96

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151783-29 BH13	151783-30 BH14	151783-31 BH15	151783-34 BH16	151783-35 BH17
Depth	-----	3.0-3.45	0.2-0.5	0.1-0.3	0.6-0.7	0-0.1
Date Sampled		11/08/2016	11/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
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	%	93	92	100	99	93

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151783-36 BH18	151783-37 BH18	151783-38 TP19	151783-39 TP20	151783-40 TP21
Depth	-----	0.5-0.95	2.0-2.2	0.1-0.4	0.2-0.5	0.1-0.4
Date Sampled		5/08/2016	5/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
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	0.3	<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	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.4	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.3	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.3	<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	1.9	NIL(+)VE	NIL(+)VE	NIL(+)VE	NIL(+)VE
Surrogate p-Terphenyl-d14	%	100	98	93	93	91

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151783-42 DUPTC1
Depth Date Sampled Type of sample	----- - SOIL	- 5/08/2016 SOIL
Date extracted	-	15/08/2016
Date analysed	-	15/08/2016
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 calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	94

Organochlorine Pesticides in soil	UNITS	151783-1	151783-2	151783-3	151783-4	151783-8
Our Reference:	-----	BH1	BH2	BH1	BH3	BH4
Your Reference	-					
Depth	-----	0.1-0.3	0.2-0.5	3-3.45	0-0.4	2.5-3.0
Date Sampled		8/08/2016	8/08/2016	8/08/2016	11/08/2016	10/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	99	99	98	102	98

Organochlorine Pesticides in soil	UNITS	151783-12	151783-15	151783-18	151783-19	151783-20
Our Reference:	-----	BH6	BH7	BH8	BH8	BH9
Your Reference	-					
Depth	-----	0-0.05	0.1-0.3	0.5-1.0	1.7-2.0	0.2-0.5
Date Sampled		11/08/2016	9/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	98	98	98	100	101

Organochlorine Pesticides in soil						
Our Reference:	UNITS	151783-21	151783-22	151783-23	151783-24	151783-28
Your Reference	-----	BH10	BH10	BH11	BH11	BH13
Depth	-					
Date Sampled	-----	0-0.2	1.4-1.6	0.5-1.0	1.5-1.7	0.2-0.4
Type of sample		10/08/2016	10/08/2016	5/08/2016	5/08/2016	11/08/2016
		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	98	102	97	97	98

Organochlorine Pesticides in soil	UNITS	151783-29	151783-30	151783-31	151783-34	151783-35
Our Reference:	-----	BH13	BH14	BH15	BH16	BH17
Your Reference	-					
Depth	-----	3.0-3.45	0.2-0.5	0.1-0.3	0.6-0.7	0-0.1
Date Sampled		11/08/2016	11/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	98	95	94	98	95

Organochlorine Pesticides in soil						
Our Reference:	UNITS	151783-36	151783-37	151783-38	151783-39	151783-40
Your Reference	-----	BH18	BH18	TP19	TP20	TP21
	-					
Depth	-----	0.5-0.95	2.0-2.2	0.1-0.4	0.2-0.5	0.1-0.4
Date Sampled		5/08/2016	5/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	97	96	97	95	94

Organochlorine Pesticides in soil		
Our Reference:	UNITS	151783-42
Your Reference	-----	DUPTC1
	-	
Depth	-----	-
Date Sampled		5/08/2016
Type of sample		SOIL
Date extracted	-	15/08/2016
Date analysed	-	16/08/2016
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	%	95

Organophosphorus Pesticides	UNITS	151783-1	151783-2	151783-3	151783-4	151783-8
Our Reference:	-----	BH1	BH2	BH1	BH3	BH4
Your Reference	-					
Depth	-----	0.1-0.3	0.2-0.5	3-3.45	0-0.4	2.5-3.0
Date Sampled		8/08/2016	8/08/2016	8/08/2016	11/08/2016	10/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	99	99	98	102	98

Organophosphorus Pesticides	UNITS	151783-12	151783-15	151783-18	151783-19	151783-20
Our Reference:	-----	BH6	BH7	BH8	BH8	BH9
Your Reference	-					
Depth	-----	0-0.05	0.1-0.3	0.5-1.0	1.7-2.0	0.2-0.5
Date Sampled		11/08/2016	9/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	98	98	98	100	101

Organophosphorus Pesticides	UNITS	151783-21	151783-22	151783-23	151783-24	151783-28
Our Reference:	-----	BH10	BH10	BH11	BH11	BH13
Your Reference	-					
Depth	-----	0-0.2	1.4-1.6	0.5-1.0	1.5-1.7	0.2-0.4
Date Sampled		10/08/2016	10/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	98	102	97	97	98

Organophosphorus Pesticides	UNITS	151783-29	151783-30	151783-31	151783-34	151783-35
Our Reference:	-----	BH13	BH14	BH15	BH16	BH17
Your Reference	-					
Depth	-----	3.0-3.45	0.2-0.5	0.1-0.3	0.6-0.7	0-0.1
Date Sampled		11/08/2016	11/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	98	95	94	98	95

Organophosphorus Pesticides						
Our Reference:	UNITS	151783-36	151783-37	151783-38	151783-39	151783-40
Your Reference	-----	BH18	BH18	TP19	TP20	TP21
	-					
Depth	-----	0.5-0.95	2.0-2.2	0.1-0.4	0.2-0.5	0.1-0.4
Date Sampled		5/08/2016	5/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
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	%	97	96	97	95	94

Organophosphorus Pesticides		
Our Reference:	UNITS	151783-42
Your Reference	-----	DUPTC1
	-	
Depth	-----	-
Date Sampled		5/08/2016
Type of sample		SOIL
Date extracted	-	15/08/2016
Date analysed	-	16/08/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Chlorpyriphos	mg/kg	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1
Diazinon	mg/kg	<0.1
Dichlorvos	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Ethion	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion	mg/kg	<0.1
Parathion	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Surrogate TCMX	%	95

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151783-1 BH1	151783-2 BH2	151783-3 BH1	151783-4 BH3	151783-8 BH4
Depth	-----	0.1-0.3	0.2-0.5	3-3.45	0-0.4	2.5-3.0
Date Sampled		8/08/2016	8/08/2016	8/08/2016	11/08/2016	10/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	99	99	98	102	98

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151783-12 BH6	151783-15 BH7	151783-18 BH8	151783-19 BH8	151783-20 BH9
Depth	-----	0-0.05	0.1-0.3	0.5-1.0	1.7-2.0	0.2-0.5
Date Sampled		11/08/2016	9/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	98	98	98	100	101

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151783-21 BH10	151783-22 BH10	151783-23 BH11	151783-24 BH11	151783-28 BH13
Depth	-----	0-0.2	1.4-1.6	0.5-1.0	1.5-1.7	0.2-0.4
Date Sampled		10/08/2016	10/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	98	102	97	97	98

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151783-29 BH13	151783-30 BH14	151783-31 BH15	151783-34 BH16	151783-35 BH17
Depth	-----	3.0-3.45	0.2-0.5	0.1-0.3	0.6-0.7	0-0.1
Date Sampled		11/08/2016	11/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	98	95	94	98	95

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151783-36 BH18	151783-37 BH18	151783-38 TP19	151783-39 TP20	151783-40 TP21
Depth Date Sampled Type of sample	----- ----- -----	0.5-0.95 5/08/2016 SOIL	2.0-2.2 5/08/2016 SOIL	0.1-0.4 5/08/2016 SOIL	0.2-0.5 5/08/2016 SOIL	0.1-0.4 5/08/2016 SOIL
Date extracted	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
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	%	97	96	97	95	94

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151783-42 DUPTC1
Depth Date Sampled Type of sample	----- ----- -----	- 5/08/2016 SOIL
Date extracted	-	15/08/2016
Date analysed	-	16/08/2016
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Surrogate TCLMX	%	95

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151783-1 BH1	151783-2 BH2	151783-3 BH1	151783-4 BH3	151783-8 BH4
Depth	-----	0.1-0.3	0.2-0.5	3-3.45	0-0.4	2.5-3.0
Date Sampled		8/08/2016	8/08/2016	8/08/2016	11/08/2016	10/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Arsenic	mg/kg	4	<4	16	8	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	15	24	20	16
Copper	mg/kg	39	38	32	18	31
Lead	mg/kg	15	9	17	16	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	7	8	8	12
Zinc	mg/kg	62	35	41	32	48

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151783-12 BH6	151783-15 BH7	151783-18 BH8	151783-19 BH8	151783-20 BH9
Depth	-----	0-0.05	0.1-0.3	0.5-1.0	1.7-2.0	0.2-0.5
Date Sampled		11/08/2016	9/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Arsenic	mg/kg	7	6	6	7	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	24	14	16	13	8
Copper	mg/kg	16	45	22	28	20
Lead	mg/kg	20	11	13	14	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	12	8	17	6
Zinc	mg/kg	24	42	32	70	22

Acid Extractable metals in soil						
Our Reference:	UNITS	151783-21	151783-22	151783-23	151783-24	151783-28
Your Reference	-----	BH10	BH10	BH11	BH11	BH13
	-					
Depth	-----	0-0.2	1.4-1.6	0.5-1.0	1.5-1.7	0.2-0.4
Date Sampled		10/08/2016	10/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Arsenic	mg/kg	5	<4	6	6	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	14	9	15	16	11
Copper	mg/kg	26	14	29	20	34
Lead	mg/kg	14	8	16	12	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	11	8	13	8	18
Zinc	mg/kg	48	20	51	28	60

Acid Extractable metals in soil						
Our Reference:	UNITS	151783-29	151783-30	151783-31	151783-34	151783-35
Your Reference	-----	BH13	BH14	BH15	BH16	BH17
	-					
Depth	-----	3.0-3.45	0.2-0.5	0.1-0.3	0.6-0.7	0-0.1
Date Sampled		11/08/2016	11/08/2016	5/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Arsenic	mg/kg	8	<4	10	5	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	9	18	10	18
Copper	mg/kg	30	23	19	15	18
Lead	mg/kg	14	12	15	7	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	11	9	8	4	9
Zinc	mg/kg	51	37	32	21	31

Acid Extractable metals in soil						
Our Reference:	UNITS	151783-36	151783-37	151783-38	151783-39	151783-40
Your Reference	-----	BH18	BH18	TP19	TP20	TP21
	-					
Depth	-----	0.5-0.95	2.0-2.2	0.1-0.4	0.2-0.5	0.1-0.4
Date Sampled		5/08/2016	5/08/2016	5/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Arsenic	mg/kg	6	5	7	8	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	13	13	20	15
Copper	mg/kg	28	17	23	20	29
Lead	mg/kg	14	10	11	20	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	4	7	9	9
Zinc	mg/kg	43	14	28	37	35

Acid Extractable metals in soil		
Our Reference:	UNITS	151783-42
Your Reference	-----	DUPTC1
	-	
Depth	-----	-
Date Sampled		5/08/2016
Type of sample		SOIL
Date prepared	-	15/08/2016
Date analysed	-	15/08/2016
Arsenic	mg/kg	6
Cadmium	mg/kg	<0.4
Chromium	mg/kg	15
Copper	mg/kg	31
Lead	mg/kg	14
Mercury	mg/kg	<0.1
Nickel	mg/kg	11
Zinc	mg/kg	47

Moisture Our Reference: Your Reference	UNITS ----- -	151783-1 BH1	151783-2 BH2	151783-3 BH1	151783-4 BH3	151783-8 BH4
Depth Date Sampled Type of sample	----- ----- -----	0.1-0.3 8/08/2016 SOIL	0.2-0.5 8/08/2016 SOIL	3-3.45 8/08/2016 SOIL	0-0.4 11/08/2016 SOIL	2.5-3.0 10/08/2016 SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
Moisture	%	11	16	12	16	11

Moisture Our Reference: Your Reference	UNITS ----- -	151783-12 BH6	151783-15 BH7	151783-18 BH8	151783-19 BH8	151783-20 BH9
Depth Date Sampled Type of sample	----- ----- -----	0-0.05 11/08/2016 SOIL	0.1-0.3 9/08/2016 SOIL	0.5-1.0 5/08/2016 SOIL	1.7-2.0 5/08/2016 SOIL	0.2-0.5 5/08/2016 SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
Moisture	%	21	21	17	12	32

Moisture Our Reference: Your Reference	UNITS ----- -	151783-21 BH10	151783-22 BH10	151783-23 BH11	151783-24 BH11	151783-28 BH13
Depth Date Sampled Type of sample	----- ----- -----	0-0.2 10/08/2016 SOIL	1.4-1.6 10/08/2016 SOIL	0.5-1.0 5/08/2016 SOIL	1.5-1.7 5/08/2016 SOIL	0.2-0.4 11/08/2016 SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
Moisture	%	14	12	16	17	11

Moisture Our Reference: Your Reference	UNITS ----- -	151783-29 BH13	151783-30 BH14	151783-31 BH15	151783-34 BH16	151783-35 BH17
Depth Date Sampled Type of sample	----- ----- -----	3.0-3.45 11/08/2016 SOIL	0.2-0.5 11/08/2016 SOIL	0.1-0.3 5/08/2016 SOIL	0.6-0.7 5/08/2016 SOIL	0-0.1 11/08/2016 SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
Moisture	%	16	13	24	12	16

Moisture Our Reference: Your Reference	UNITS ----- -	151783-36 BH18	151783-37 BH18	151783-38 TP19	151783-39 TP20	151783-40 TP21
Depth Date Sampled Type of sample	----- ----- -----	0.5-0.95 5/08/2016 SOIL	2.0-2.2 5/08/2016 SOIL	0.1-0.4 5/08/2016 SOIL	0.2-0.5 5/08/2016 SOIL	0.1-0.4 5/08/2016 SOIL
Date prepared	-	15/08/2016	15/08/2016	15/08/2016	15/08/2016	15/08/2016
Date analysed	-	16/08/2016	16/08/2016	16/08/2016	16/08/2016	16/08/2016
Moisture	%	15	15	20	19	19

Moisture Our Reference: Your Reference	UNITS ----- -	151783-42 DUPTC1
Depth Date Sampled Type of sample	----- ----- -----	- 5/08/2016 SOIL
Date prepared	-	15/08/2016
Date analysed	-	16/08/2016
Moisture	%	14

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	151783-1 BH1	151783-2 BH2	151783-4 BH3	151783-12 BH6	151783-15 BH7
Depth	-----	0.1-0.3	0.2-0.5	0-0.4	0-0.05	0.1-0.3
Date Sampled		8/08/2016	8/08/2016	11/08/2016	11/08/2016	9/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Sample mass tested	g	Approx. 15g	Approx. 20g	Approx. 10g	Approx. 30g	Approx. 10g
Sample Description	-	Brown clayey soil	Brown clayey soil	Brown clayey soil	Brown clayey soil	Brown clayey soil
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: Your Reference	UNITS ----- -	151783-18 BH8	151783-20 BH9	151783-21 BH10	151783-23 BH11	151783-28 BH13
Depth	-----	0.5-1.0	0.2-0.5	0-0.2	0.5-1.0	0.2-0.4
Date Sampled		5/08/2016	5/08/2016	10/08/2016	5/08/2016	11/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Sample mass tested	g	Approx. 35g	Approx. 25g	Approx. 25g	Approx. 20g	Approx. 25g
Sample Description	-	Brown clayey soil	Brown clayey soil	Brown clayey soil	Brown clayey soil	Brown clayey soil
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: Your Reference	UNITS ----- -	151783-30 BH14	151783-31 BH15	151783-35 BH17	151783-36 BH18	151783-38 TP19
Depth	-----	0.2-0.5	0.1-0.3	0-0.1	0.5-0.95	0.1-0.4
Date Sampled		11/08/2016	5/08/2016	11/08/2016	5/08/2016	5/08/2016
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Sample mass tested	g	Approx. 15g	Approx. 20g	Approx. 10g	Approx. 40g	Approx. 20g
Sample Description	-	Brown clayey soil	Brown clayey soil	Brown clayey soil	Brown clayey soil	Brown clayey soil
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: Your Reference	UNITS ----- -	151783-39 TP20	151783-40 TP21
Depth	-----	0.2-0.5	0.1-0.4
Date Sampled		5/08/2016	5/08/2016
Type of sample		SOIL	SOIL
Date analysed	-	18/08/2016	18/08/2016
Sample mass tested	g	Approx. 40g	Approx. 25g
Sample Description	-	Brown clayey soil	Brown clayey soil
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
Trace Analysis	-	No asbestos detected	No 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	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	Determination of various metals by ICP-AES.
Metals-021	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	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
Date analysed	-			16/08/2016	151783-1	16/08/2016 16/08/2016	LCS-5	16/08/2016
TRHC ₆ - C ₉	mg/kg	25	Org-016	<25	151783-1	<25 <25	LCS-5	110%
TRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	151783-1	<25 <25	LCS-5	110%
Benzene	mg/kg	0.2	Org-016	<0.2	151783-1	<0.2 <0.2	LCS-5	105%
Toluene	mg/kg	0.5	Org-016	<0.5	151783-1	<0.5 <0.5	LCS-5	108%
Ethylbenzene	mg/kg	1	Org-016	<1	151783-1	<1 <1	LCS-5	111%
m+p-xylene	mg/kg	2	Org-016	<2	151783-1	<2 <2	LCS-5	112%
o-Xylene	mg/kg	1	Org-016	<1	151783-1	<1 <1	LCS-5	113%
naphthalene	mg/kg	1	Org-014	<1	151783-1	<1 <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	109	151783-1	107 104 RPD: 3	LCS-5	106%
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	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
Date analysed	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	151783-1	<50 <50	LCS-5	95%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	151783-1	<100 <100	LCS-5	94%
TRHC ₂₈ - C ₃₆	mg/kg	100	Org-003	<100	151783-1	<100 <100	LCS-5	85%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	151783-1	<50 <50	LCS-5	95%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	151783-1	<100 <100	LCS-5	94%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	151783-1	<100 <100	LCS-5	85%
Surrogate o-Terphenyl	%		Org-003	99	151783-1	85 87 RPD: 2	LCS-5	88%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
Date analysed	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
Naphthalene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	LCS-5	114%
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	LCS-5	130%
Phenanthrene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	LCS-5	113%
Anthracene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	LCS-5	104%
Pyrene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	LCS-5	110%
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	LCS-5	108%
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	151783-1	<0.2 <0.2	[NR]	[NR]

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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		
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	151783-1	<0.05 <0.05	LCS-5	129%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	95	151783-1	105 100 RPD: 5	LCS-5	115%
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	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
Date analysed	-			16/08/2016	151783-1	16/08/2016 16/08/2016	LCS-5	16/08/2016
HCB	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	75%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	81%
Heptachlor	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	81%
delta-BHC	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	80%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	81%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	84%
Dieldrin	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	83%
Endrin	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	84%
pp-DDD	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	86%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	LCS-5	81%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-005	96	151783-1	99 97 RPD: 2	LCS-5	113%

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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	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
Date analysed	-			16/08/2016	151783-1	16/08/2016 16/08/2016	LCS-5	16/08/2016
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	LCS-5	95%
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	LCS-5	97%
Dimethoate	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	LCS-5	105%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	LCS-5	117%
Malathion	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	LCS-5	100%
Parathion	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	LCS-5	109%
Ronnel	mg/kg	0.1	Org-008	<0.1	151783-1	<0.1 <0.1	LCS-5	102%
Surrogate TCMX	%		Org-008	96	151783-1	99 97 RPD: 2	LCS-5	97%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
Date analysed	-			16/08/2016	151783-1	16/08/2016 16/08/2016	LCS-5	16/08/2016
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	151783-1	<0.1 <0.1	LCS-5	127%
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	151783-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	96	151783-1	99 97 RPD: 2	LCS-5	98%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base Duplicate %RPD		
Date prepared	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
Date analysed	-			15/08/2016	151783-1	15/08/2016 15/08/2016	LCS-5	15/08/2016
Arsenic	mg/kg	4	Metals-020	<4	151783-1	4 <4	LCS-5	104%
Cadmium	mg/kg	0.4	Metals-020	<0.4	151783-1	<0.4 <0.4	LCS-5	102%
Chromium	mg/kg	1	Metals-020	<1	151783-1	12 13 RPD: 8	LCS-5	105%
Copper	mg/kg	1	Metals-020	<1	151783-1	39 39 RPD: 0	LCS-5	103%
Lead	mg/kg	1	Metals-020	<1	151783-1	15 14 RPD: 7	LCS-5	99%
Mercury	mg/kg	0.1	Metals-021	<0.1	151783-1	<0.1 <0.1	LCS-5	89%
Nickel	mg/kg	1	Metals-020	<1	151783-1	18 17 RPD: 6	LCS-5	97%
Zinc	mg/kg	1	Metals-020	<1	151783-1	62 63 RPD: 2	LCS-5	100%
QUALITYCONTROL vTRH(C6-C10)/BTExNin Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	151783-21		15/08/2016 15/08/2016		LCS-6	15/08/2016	
Date analysed	-	151783-21		16/08/2016 16/08/2016		LCS-6	16/08/2016	
TRHC ₆ - C ₉	mg/kg	151783-21		<25 <25		LCS-6	113%	
TRHC ₆ - C ₁₀	mg/kg	151783-21		<25 <25		LCS-6	113%	
Benzene	mg/kg	151783-21		<0.2 <0.2		LCS-6	108%	
Toluene	mg/kg	151783-21		<0.5 <0.5		LCS-6	111%	
Ethylbenzene	mg/kg	151783-21		<1 <1		LCS-6	112%	
m+p-xylene	mg/kg	151783-21		<2 <2		LCS-6	118%	
o-Xylene	mg/kg	151783-21		<1 <1		LCS-6	116%	
naphthalene	mg/kg	151783-21		<1 <1		[NR]	[NR]	
Surrogate aaa-Trifluorotoluene	%	151783-21		104 105 RPD: 1		LCS-6	108%	
QUALITYCONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	151783-21		15/08/2016 15/08/2016		LCS-6	15/08/2016	
Date analysed	-	151783-21		15/08/2016 15/08/2016		LCS-6	15/08/2016	
TRHC ₁₀ - C ₁₄	mg/kg	151783-21		<50 <50		LCS-6	97%	
TRHC ₁₅ - C ₂₈	mg/kg	151783-21		<100 <100		LCS-6	94%	
TRHC ₂₉ - C ₃₆	mg/kg	151783-21		<100 <100		LCS-6	86%	
TRH>C ₁₀ -C ₁₆	mg/kg	151783-21		<50 <50		LCS-6	97%	
TRH>C ₁₆ -C ₃₄	mg/kg	151783-21		<100 <100		LCS-6	94%	
TRH>C ₃₄ -C ₄₀	mg/kg	151783-21		<100 <100		LCS-6	86%	
Surrogate o-Terphenyl	%	151783-21		81 82 RPD: 1		LCS-6	89%	

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-21	15/08/2016 15/08/2016	LCS-6	15/08/2016
Date analysed	-	151783-21	15/08/2016 15/08/2016	LCS-6	15/08/2016
Naphthalene	mg/kg	151783-21	<0.1 <0.1	LCS-6	95%
Acenaphthylene	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	151783-21	<0.1 <0.1	LCS-6	120%
Phenanthrene	mg/kg	151783-21	<0.1 <0.1	LCS-6	90%
Anthracene	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	151783-21	<0.1 <0.1	LCS-6	82%
Pyrene	mg/kg	151783-21	<0.1 <0.1	LCS-6	86%
Benzo(a)anthracene	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	151783-21	<0.1 <0.1	LCS-6	94%
Benzo(b,j+k)fluoranthene	mg/kg	151783-21	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	151783-21	<0.05 <0.05	LCS-6	118%
Indeno(1,2,3-c,d)pyrene	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	151783-21	89 98 RPD: 10	LCS-6	103%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-21	15/08/2016 15/08/2016	LCS-6	15/08/2016
Date analysed	-	151783-21	16/08/2016 16/08/2016	LCS-6	16/08/2016
HCB	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	151783-21	<0.1 <0.1	LCS-6	73%
gamma-BHC	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	151783-21	<0.1 <0.1	LCS-6	82%
Heptachlor	mg/kg	151783-21	<0.1 <0.1	LCS-6	81%
delta-BHC	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	151783-21	<0.1 <0.1	LCS-6	80%
Heptachlor Epoxide	mg/kg	151783-21	<0.1 <0.1	LCS-6	82%
gamma-Chlordane	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	151783-21	<0.1 <0.1	LCS-6	84%
Dieldrin	mg/kg	151783-21	<0.1 <0.1	LCS-6	83%
Endrin	mg/kg	151783-21	<0.1 <0.1	LCS-6	85%
pp-DDD	mg/kg	151783-21	<0.1 <0.1	LCS-6	85%
Endosulfan II	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	151783-21	<0.1 <0.1	LCS-6	77%

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QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Methoxychlor	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	151783-21	98 98 RPD: 0	LCS-6	115%
QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-21	15/08/2016 15/08/2016	LCS-6	15/08/2016
Date analysed	-	151783-21	16/08/2016 16/08/2016	LCS-6	16/08/2016
Azinphos-methyl (Guthion)	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Bromophos-ethyl	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	151783-21	<0.1 <0.1	LCS-6	99%
Chlorpyrifos-methyl	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	151783-21	<0.1 <0.1	LCS-6	101%
Dimethoate	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	151783-21	<0.1 <0.1	LCS-6	105%
Fenitrothion	mg/kg	151783-21	<0.1 <0.1	LCS-6	121%
Malathion	mg/kg	151783-21	<0.1 <0.1	LCS-6	100%
Parathion	mg/kg	151783-21	<0.1 <0.1	LCS-6	110%
Ronnel	mg/kg	151783-21	<0.1 <0.1	LCS-6	107%
Surrogate TCMX	%	151783-21	98 98 RPD: 0	LCS-6	103%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-21	15/08/2016 15/08/2016	LCS-6	15/08/2016
Date analysed	-	151783-21	16/08/2016 16/08/2016	LCS-6	16/08/2016
Aroclor 1016	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	151783-21	<0.1 <0.1	LCS-6	128%
Aroclor 1260	mg/kg	151783-21	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	151783-21	98 98 RPD: 0	LCS-6	98%

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QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	151783-21	15/08/2016 15/08/2016	LCS-6	15/08/2016
Date analysed	-	151783-21	15/08/2016 15/08/2016	LCS-6	15/08/2016
Arsenic	mg/kg	151783-21	5 6 RPD: 18	LCS-6	97%
Cadmium	mg/kg	151783-21	<0.4 <0.4	LCS-6	93%
Chromium	mg/kg	151783-21	14 15 RPD: 7	LCS-6	98%
Copper	mg/kg	151783-21	26 29 RPD: 11	LCS-6	95%
Lead	mg/kg	151783-21	14 16 RPD: 13	LCS-6	93%
Mercury	mg/kg	151783-21	<0.1 <0.1	LCS-6	88%
Nickel	mg/kg	151783-21	11 12 RPD: 9	LCS-6	91%
Zinc	mg/kg	151783-21	48 54 RPD: 12	LCS-6	93%
QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-37	15/08/2016 15/08/2016	151783-2	15/08/2016
Date analysed	-	151783-37	16/08/2016 16/08/2016	151783-2	16/08/2016
TRHC ₆ - C ₉	mg/kg	151783-37	<25 <25	151783-2	118%
TRHC ₆ - C ₁₀	mg/kg	151783-37	<25 <25	151783-2	118%
Benzene	mg/kg	151783-37	<0.2 <0.2	151783-2	112%
Toluene	mg/kg	151783-37	<0.5 <0.5	151783-2	114%
Ethylbenzene	mg/kg	151783-37	<1 <1	151783-2	120%
m+p-xylene	mg/kg	151783-37	<2 <2	151783-2	122%
o-Xylene	mg/kg	151783-37	<1 <1	151783-2	122%
naphthalene	mg/kg	151783-37	<1 <1	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	151783-37	107 110 RPD: 3	151783-2	108%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-37	15/08/2016 15/08/2016	151783-2	15/08/2016
Date analysed	-	151783-37	16/08/2016 16/08/2016	151783-2	15/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	151783-37	<50 <50	151783-2	109%
TRHC ₁₅ - C ₂₈	mg/kg	151783-37	<100 <100	151783-2	108%
TRHC ₂₉ - C ₃₆	mg/kg	151783-37	<100 <100	151783-2	92%
TRH>C ₁₀ -C ₁₆	mg/kg	151783-37	<50 <50	151783-2	109%
TRH>C ₁₆ -C ₃₄	mg/kg	151783-37	<100 <100	151783-2	108%
TRH>C ₃₄ -C ₄₀	mg/kg	151783-37	<100 <100	151783-2	92%
Surrogate o-Terphenyl	%	151783-37	95 94 RPD: 1	151783-2	95%

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-37	15/08/2016 15/08/2016	151783-2	15/08/2016
Date analysed	-	151783-37	15/08/2016 15/08/2016	151783-2	15/08/2016
Naphthalene	mg/kg	151783-37	<0.1 <0.1	151783-2	122%
Acenaphthylene	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	151783-37	<0.1 <0.1	151783-2	111%
Phenanthrene	mg/kg	151783-37	<0.1 <0.1	151783-2	127%
Anthracene	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	151783-37	<0.1 <0.1	151783-2	117%
Pyrene	mg/kg	151783-37	<0.1 <0.1	151783-2	124%
Benzo(a)anthracene	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	151783-37	<0.1 <0.1	151783-2	113%
Benzo(b,j+k)fluoranthene	mg/kg	151783-37	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	151783-37	<0.05 <0.05	151783-2	133%
Indeno(1,2,3-c,d)pyrene	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	151783-37	98 92 RPD: 6	151783-2	128%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-37	15/08/2016 15/08/2016	151783-2	15/08/2016
Date analysed	-	151783-37	16/08/2016 16/08/2016	151783-2	16/08/2016
HCB	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	151783-37	<0.1 <0.1	151783-2	84%
gamma-BHC	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	151783-37	<0.1 <0.1	151783-2	88%
Heptachlor	mg/kg	151783-37	<0.1 <0.1	151783-2	88%
delta-BHC	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	151783-37	<0.1 <0.1	151783-2	87%
Heptachlor Epoxide	mg/kg	151783-37	<0.1 <0.1	151783-2	88%
gamma-Chlordane	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	151783-37	<0.1 <0.1	151783-2	92%
Dieldrin	mg/kg	151783-37	<0.1 <0.1	151783-2	90%
Endrin	mg/kg	151783-37	<0.1 <0.1	151783-2	91%
pp-DDD	mg/kg	151783-37	<0.1 <0.1	151783-2	93%
Endosulfan II	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	151783-37	<0.1 <0.1	151783-2	88%

Client Reference: E29593K, Oran Park

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Methoxychlor	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	151783-37	96 95 RPD: 1	151783-2	119%
QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-37	15/08/2016 15/08/2016	151783-2	15/08/2016
Date analysed	-	151783-37	16/08/2016 16/08/2016	151783-2	16/08/2016
Azinphos-methyl (Guthion)	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Bromophos-ethyl	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	151783-37	<0.1 <0.1	151783-2	93%
Chlorpyrifos-methyl	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	151783-37	<0.1 <0.1	151783-2	96%
Dimethoate	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	151783-37	<0.1 <0.1	151783-2	99%
Fenitrothion	mg/kg	151783-37	<0.1 <0.1	151783-2	101%
Malathion	mg/kg	151783-37	<0.1 <0.1	151783-2	91%
Parathion	mg/kg	151783-37	<0.1 <0.1	151783-2	108%
Ronnel	mg/kg	151783-37	<0.1 <0.1	151783-2	101%
Surrogate TCMX	%	151783-37	96 95 RPD: 1	151783-2	96%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151783-37	15/08/2016 15/08/2016	151783-2	15/08/2016
Date analysed	-	151783-37	16/08/2016 16/08/2016	151783-2	16/08/2016
Aroclor 1016	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	151783-37	<0.1 <0.1	151783-2	125%
Aroclor 1260	mg/kg	151783-37	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	151783-37	96 95 RPD: 1	151783-2	96%

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QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	151783-37	15/08/2016 15/08/2016	151783-2	15/08/2016
Date analysed	-	151783-37	15/08/2016 15/08/2016	151783-2	15/08/2016
Arsenic	mg/kg	151783-37	5 5 RPD: 0	151783-2	78%
Cadmium	mg/kg	151783-37	<0.4 <0.4	151783-2	80%
Chromium	mg/kg	151783-37	13 15 RPD: 14	151783-2	84%
Copper	mg/kg	151783-37	17 19 RPD: 11	151783-2	79%
Lead	mg/kg	151783-37	10 12 RPD: 18	151783-2	74%
Mercury	mg/kg	151783-37	<0.1 <0.1	151783-2	106%
Nickel	mg/kg	151783-37	4 4 RPD: 0	151783-2	75%
Zinc	mg/kg	151783-37	14 17 RPD: 19	151783-2	70%
QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151783-38	15/08/2016
Date analysed	-	[NT]	[NT]	151783-38	16/08/2016
TRHC ₆ - C ₉	mg/kg	[NT]	[NT]	151783-38	110%
TRHC ₆ - C ₁₀	mg/kg	[NT]	[NT]	151783-38	110%
Benzene	mg/kg	[NT]	[NT]	151783-38	104%
Toluene	mg/kg	[NT]	[NT]	151783-38	106%
Ethylbenzene	mg/kg	[NT]	[NT]	151783-38	112%
m+p-xylene	mg/kg	[NT]	[NT]	151783-38	113%
o-Xylene	mg/kg	[NT]	[NT]	151783-38	113%
naphthalene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	[NT]	[NT]	151783-38	103%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151783-38	15/08/2016
Date analysed	-	[NT]	[NT]	151783-38	16/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	[NT]	[NT]	151783-38	115%
TRHC ₁₅ - C ₂₈	mg/kg	[NT]	[NT]	151783-38	109%
TRHC ₂₉ - C ₃₆	mg/kg	[NT]	[NT]	151783-38	90%
TRH>C ₁₀ -C ₁₆	mg/kg	[NT]	[NT]	151783-38	115%
TRH>C ₁₆ -C ₃₄	mg/kg	[NT]	[NT]	151783-38	109%
TRH>C ₃₄ -C ₄₀	mg/kg	[NT]	[NT]	151783-38	90%
Surrogate o-Terphenyl	%	[NT]	[NT]	151783-38	95%

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151783-38	15/08/2016
Date analysed	-	[NT]	[NT]	151783-38	15/08/2016
Naphthalene	mg/kg	[NT]	[NT]	151783-38	114%
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	151783-38	138%
Phenanthrene	mg/kg	[NT]	[NT]	151783-38	122%
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	[NT]	[NT]	151783-38	111%
Pyrene	mg/kg	[NT]	[NT]	151783-38	117%
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	[NT]	[NT]	151783-38	107%
Benzo(b,j,k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	[NT]	[NT]	151783-38	134%
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	[NT]	[NT]	151783-38	124%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151783-38	15/08/2016
Date analysed	-	[NT]	[NT]	151783-38	16/08/2016
HCB	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	[NT]	[NT]	151783-38	79%
gamma-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	[NT]	[NT]	151783-38	86%
Heptachlor	mg/kg	[NT]	[NT]	151783-38	85%
delta-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	151783-38	84%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	151783-38	86%
gamma-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	[NT]	[NT]	151783-38	88%
Dieldrin	mg/kg	[NT]	[NT]	151783-38	87%
Endrin	mg/kg	[NT]	[NT]	151783-38	89%
pp-DDD	mg/kg	[NT]	[NT]	151783-38	90%
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	[NT]	[NT]	151783-38	83%

Client Reference: E29593K, Oran Park

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%	[NT]	[NT]	151783-38	110%
QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151783-38	15/08/2016
Date analysed	-	[NT]	[NT]	151783-38	16/08/2016
Azinphos-methyl (Guthion)	mg/kg	[NT]	[NT]	[NR]	[NR]
Bromophos-ethyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	[NT]	[NT]	151783-38	90%
Chlorpyrifos-methyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Diazinon	mg/kg	[NT]	[NT]	[NR]	[NR]
Dichlorvos	mg/kg	[NT]	[NT]	151783-38	110%
Dimethoate	mg/kg	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	[NT]	[NT]	151783-38	96%
Fenitrothion	mg/kg	[NT]	[NT]	151783-38	110%
Malathion	mg/kg	[NT]	[NT]	151783-38	90%
Parathion	mg/kg	[NT]	[NT]	151783-38	89%
Ronnel	mg/kg	[NT]	[NT]	151783-38	97%
Surrogate TCMX	%	[NT]	[NT]	151783-38	93%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151783-38	15/08/2016
Date analysed	-	[NT]	[NT]	151783-38	16/08/2016
Aroclor 1016	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1221	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1232	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1242	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1248	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1254	mg/kg	[NT]	[NT]	151783-38	118%
Aroclor 1260	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	151783-38	94%

Client Reference: E29593K, Oran Park

QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	151783-38	15/08/2016
Date analysed	-	[NT]	[NT]	151783-38	15/08/2016
Arsenic	mg/kg	[NT]	[NT]	151783-38	84%
Cadmium	mg/kg	[NT]	[NT]	151783-38	85%
Chromium	mg/kg	[NT]	[NT]	151783-38	90%
Copper	mg/kg	[NT]	[NT]	151783-38	92%
Lead	mg/kg	[NT]	[NT]	151783-38	76%
Mercury	mg/kg	[NT]	[NT]	151783-38	72%
Nickel	mg/kg	[NT]	[NT]	151783-38	78%
Zinc	mg/kg	[NT]	[NT]	151783-38	71%

Report Comments:

Asbestos: A portion of the supplied sample was sub-sampled for asbestos analysis according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g of sample in its own container.

Note: Samples 151783-18, 36, 38 were sub-sampled from jars provided by the client.

Asbestos ID was analysed by Approved Identifier: Paul Ching

Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test

NR: 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.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

SAMPLE RECEIPT ADVICE

Client Details	
Client	Environmental Investigation Services
Attention	K Taylor

Sample Login Details	
Your Reference	E29593K, Oran Park
Envirolab Reference	151783
Date Sample Received	12/08/2016
Date Instructions Received	12/08/2016
Date Results Expected to be Reported	19/08/2016

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	42 soils
Turnaround Time Requested	Standard
Temperature on receipt (°C)	6.8
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	VTRH(C6- C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides	PCBs in Soil	Acid Extractable metals in soil	Asbestos ID - soils	On Hold
BH1-0.1-0.3	✓	✓	✓	✓	✓	✓	✓	✓	
BH2-0.2-0.5	✓	✓	✓	✓	✓	✓	✓	✓	
BH2-3-3.45	✓	✓	✓	✓	✓	✓	✓		
BH3-0-0.4	✓	✓	✓	✓	✓	✓	✓	✓	
BH3-1.5-1.95									✓
BH4-0-0.1									✓
BH4-0.2-0.3									✓
BH4-2.5-3.0	✓	✓	✓	✓	✓	✓	✓		
BH4-3.2-3.5									✓
BH5-0.2-0.4									✓
BH5-2.0-2.4									✓
BH6-0-0.05	✓	✓	✓	✓	✓	✓	✓	✓	
BH6-1.0-1.2									✓
BH6-2.5-3.0									✓
BH7-0.1-0.3	✓	✓	✓	✓	✓	✓	✓	✓	
BH7-1.0-1.2									✓
BH7-4.5-4.95									✓
BH8-0.5-1.0	✓	✓	✓	✓	✓	✓	✓	✓	
BH8-1.7-2.0	✓	✓	✓	✓	✓	✓	✓		
BH9-0.2-0.5	✓	✓	✓	✓	✓	✓	✓	✓	
BH10-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
BH10-1.4-1.6	✓	✓	✓	✓	✓	✓	✓		
BH11-0.5-1.0	✓	✓	✓	✓	✓	✓	✓	✓	
BH11-1.5-1.7	✓	✓	✓	✓	✓	✓	✓		
BH12-0.1-0.2									✓
BH12-1.0-1.2									✓
BH12-3.0-3.45									✓
BH13-0.2-0.4	✓	✓	✓	✓	✓	✓	✓	✓	
BH13-3.0-3.45	✓	✓	✓	✓	✓	✓	✓		
BH14-0.2-0.5	✓	✓	✓	✓	✓	✓	✓	✓	
BH15-0.1-0.3	✓	✓	✓	✓	✓	✓	✓	✓	
BH15-1.0-1.2									✓
BH16-0.2-0.4									✓
BH16-0.6-0.7	✓	✓	✓	✓	✓	✓	✓		
BH17-0-0.1	✓	✓	✓	✓	✓	✓	✓	✓	
BH18-0.5-0.95	✓	✓	✓	✓	✓	✓	✓	✓	
BH18-2.0-2.2	✓	✓	✓	✓	✓	✓	✓		
TP1-0.1-0.4	✓	✓	✓	✓	✓	✓	✓	✓	
TP2-0.2-0.5	✓	✓	✓	✓	✓	✓	✓	✓	
TP3-0.1-0.4	✓	✓	✓	✓	✓	✓	✓	✓	
TB	✓								

[illegible]

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 Number: E29593K Date Results Required: STANDARD Page:	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: ktaylor@jkggroup.net.au	
---	--	---	---

Location: Oran Park							Sample Preserved in Esky on Ice									
Sampler: T.Cient							Tests Required									
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 6a	Combo 6	BTEX	Asbestos						
8/8	1	BH1	0.1-0.3	A	0	Fill	X									
↓	2	BH2	0.2-0.5			Fill	X									
↓	3	labeled BH1	3-3.45			Nat		X								
11/8	4	BH3	0-0.4			Fill	X									
↓	5		1.5-1.95	NB		Nat										
10/8	6	BH4	0-0.1			Fill										
↓	7		0.2-0.3			Fill										
↓	8		2.5-3.0			Fill		X								
↓	9		3.2-3.5			Nat										
5/8	10	BH5	0.2-0.4			Fill										
↓	11		2.0-2.4			Nat										
11/8	12	BH6	0-0.05			Fill	X									
↓	13		1.0-1.2			Fill										
↓	14		2.5-3.0			Nat										
9/8	15	BH7	0.1-0.3			Fill	X									
↓	16		1.0-1.2			Fill										
↓	17		4.5-4.95			Nat										
5/8	18	BH8	0.5-1.0	NB		Fill	X									
↓	19		1.7-2.0			Nat		X								
↓	20	BH9	0.2-0.5			Fill	X									
10/8	21	BH10	0-0.2			Fill	X									
↓	22		1.4-1.6			Nat		X								
5/8	23	BH11	0.5-1.0			Fill	X									
↓	24		1.5-1.7			Nat		X								

Remarks (comments/detection limits required):		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By:	Date:	Time:	Received By:
		17:00	P Ray
			Date: 12/8/16

Envirolab Services
 12 Ashley St
 Chatswood NSW 2067
 Ph: (02) 9910 6200
 Job No: 151783
 Date Received: 12/8/2016
 Time Received: 17:00
 Received by: [Signature]
 Temp: Cool/Ambient
 Cooling: Ice/Depack
 Security: Intact/Broken/None

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 Number: E29593K Date Results Required: STANDARD Page:	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: ktaylor@jkggroup.net.au	
---	--	---	---

Location: Oran Park							Sample Preserved in Esky on Ice									
Sampler: T.Cient							Tests Required									
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 6a	Combo 6	BTEX	Asbestos						
11/8	25	BH12	0.1-0.2	A	0	Fill										
	226		1.0-1.2			Fill										
	227		3.0-3.45			Nat										
	28	BH13	0.2-0.4			Fill	X									
	29		3.0-3.45			Nat		X								
	30	BH14	0.2-0.5			Fill	X									
5/8	31	BH15	0.1-0.3			Fill	X									
	32		1.0-1.2			Nat										
	33	BH16	0.2-0.4			Fill										
	34		0.6-0.7			Nat		X								
11/8	35	BH17	0-0.1			Fill	X									
	NR		1.5-1.95			Nat										
5/8	36	BH18	0.5-0.95	NB		Fill	X									
	37		2.0-2.2			Nat		X								
	38	TP1	0.1-0.4			Fill	X									
	39	TP2	0.2-0.5			Fill	X									
	40	TP3	0.1-0.4			Fill	X									
	41	TB				Sand			X							
	42	DWPTC1						X								

Remarks (comments/detection limits required):		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By:	Date:	Time: 17:00	Received By: Play Date: 12/8/10



12 Ashley Street, Chatswood, NSW 2067
tel: +61 2 9910 6200

email: sydney@envirolab.com.au
envirolab.com.au

Envirolab Services Pty Ltd - Sydney | ABN 37 112 535 645

CERTIFICATE OF ANALYSIS

160502

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Kati Taylor

Sample log in details:

Your Reference:

E29593K, Oran Park

No. of samples:

54 Soils

Date samples received / completed instructions received

19/01/17

/ 19/01/17

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

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

Report Details:

Date results requested by: / Issue Date:

27/01/17

/ 24/01/17

Date of Preliminary Report:

Not Issued

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Accredited for compliance with ISO/IEC 17025 - Testing

Tests not covered by NATA are denoted with *.

Results Approved By:

David Springer
General Manager



Envirolab Reference: 160502

Revision No: R 00

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vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference	UNITS ----- -	160502-2 BH101	160502-3 BH101	160502-4 BH102	160502-6 BH102	160502-8 BH103
Depth	-----	0.8-1.0	3-3.2	0-0.2	2.5-2.7	0.8-1.0
Date Sampled		16/01/2017	16/01/2017	16/01/2017	16/01/2017	18/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	94	103	102	98	102

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference	UNITS ----- -	160502-9 BH103	160502-10 BH104	160502-12 BH104	160502-13 BH105	160502-15 BH105
Depth	-----	2.7-3.0	0-0.2	3.8-3.0	0-0.1	1.2-1.4
Date Sampled		18/01/2017	18/01/2017	18/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	96	99	100	99	96

vTRH(C6-C10)/BTEXN in Soil	UNITS	160502-16	160502-18	160502-19	160502-21	160502-22
Our Reference:	-----	BH106	BH106	BH107	BH107	BH108
Your Reference	-					
Depth	-----	0.05-0.2	1.95-2.05	0-0.2	1.3-1.5	0.05-0.2
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	94	92	91	92	95

vTRH(C6-C10)/BTEXN in Soil	UNITS	160502-24	160502-25	160502-26	160502-28	160502-30
Our Reference:	-----	BH108	BH108	BH109	BH109	BH110
Your Reference	-					
Depth	-----	1.6-1.8	2.5-2.6	0-0.15	2-2.15	0.4-0.5
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	93	94	100	98	99

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference	UNITS ----- -	160502-31 BH110	160502-32 BH111	160502-34 BH111	160502-35 BH112	160502-37 BH112
Depth	-----	1.9-2.0	0-0.2	2.0-2.2	0-0.15	1.8-2.0
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	97	101	98	97	97

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference	UNITS ----- -	160502-38 BH113	160502-40 BH113	160502-41 BH114	160502-43 BH114	160502-45 BH115
Depth	-----	0-0.2	1.9-2.0	0-0.2	2.6-2.8	0.8-0.9
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	98	96	94	92	99

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- - -----	160502-46 BH115 2.0-2.1 17/01/2017 Soil	160502-47 BH116 0-0.15 17/01/2017 Soil	160502-50 BH117 0-0.15 17/01/2017 Soil	160502-52 BH117 1.9-2.05 17/01/2017 Soil	160502-53 DUPKT1 - 17/01/2017 Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	93	95	93	97	99

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- - -----	160502-54 TB - 17/01/2017 Soil
Date extracted	-	20/01/2017
Date analysed	-	23/01/2017
TRHC ₆ - C ₉	mg/kg	<25
TRHC ₆ - C ₁₀	mg/kg	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	95

svTRH (C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	160502-2 BH101	160502-3 BH101	160502-4 BH102	160502-6 BH102	160502-8 BH103
Depth	-----	0.8-1.0	3-3.2	0-0.2	2.5-2.7	0.8-1.0
Date Sampled		16/01/2017	16/01/2017	16/01/2017	16/01/2017	18/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	21/01/2017	21/01/2017	21/01/2017	21/01/2017
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	94	95	94	95

svTRH (C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	160502-9 BH103	160502-10 BH104	160502-12 BH104	160502-13 BH105	160502-15 BH105
Depth	-----	2.7-3.0	0-0.2	3.8-3.0	0-0.1	1.2-1.4
Date Sampled		18/01/2017	18/01/2017	18/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	21/01/2017	21/01/2017	21/01/2017	21/01/2017
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	150	<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	150	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	94	95	97	99	92

svTRH (C10-C40) in Soil						
Our Reference:	UNITS	160502-16	160502-18	160502-19	160502-21	160502-22
Your Reference	-----	BH106	BH106	BH107	BH107	BH108
	-					
Depth	-----	0.05-0.2	1.95-2.05	0-0.2	1.3-1.5	0.05-0.2
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	21/01/2017	21/01/2017	21/01/2017	21/01/2017
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	%	94	92	94	91	97

svTRH (C10-C40) in Soil						
Our Reference:	UNITS	160502-24	160502-25	160502-26	160502-28	160502-30
Your Reference	-----	BH108	BH108	BH109	BH109	BH110
	-					
Depth	-----	1.6-1.8	2.5-2.6	0-0.15	2-2.15	0.4-0.5
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	21/01/2017	21/01/2017	21/01/2017	21/01/2017
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	%	92	91	92	92	92

svTRH (C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	160502-31 BH110	160502-32 BH111	160502-34 BH111	160502-35 BH112	160502-37 BH112
Depth	-----	1.9-2.0	0-0.2	2.0-2.2	0-0.15	1.8-2.0
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	21/01/2017	21/01/2017	21/01/2017	21/01/2017
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	%	92	92	90	93	90

svTRH (C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	160502-38 BH113	160502-40 BH113	160502-41 BH114	160502-43 BH114	160502-45 BH115
Depth	-----	0-0.2	1.9-2.0	0-0.2	2.6-2.8	0.8-0.9
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	21/01/2017	21/01/2017	21/01/2017	21/01/2017
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	%	94	92	92	90	91

svTRH (C10-C40) in Soil						
Our Reference:	UNITS	160502-46	160502-47	160502-50	160502-52	160502-53
Your Reference	-----	BH115	BH116	BH117	BH117	DUPKT1
	-					
Depth	-----	2.0-2.1	0-0.15	0-0.15	1.9-2.05	-
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	21/01/2017	21/01/2017	21/01/2017	21/01/2017
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	%	89	92	92	90	95

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	160502-2 BH101	160502-3 BH101	160502-4 BH102	160502-6 BH102	160502-8 BH103
Depth	-----	0.8-1.0	3-3.2	0-0.2	2.5-2.7	0.8-1.0
Date Sampled		16/01/2017	16/01/2017	16/01/2017	16/01/2017	18/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
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 +ve PAH's	mg/kg	0.05	NIL(+)VE	NIL(+)VE	NIL(+)VE	NIL(+)VE
Surrogate p-Terphenyl-d14	%	92	88	89	90	101

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	160502-9 BH103	160502-10 BH104	160502-12 BH104	160502-13 BH105	160502-15 BH105
Depth	-----	2.7-3.0	0-0.2	3.8-3.0	0-0.1	1.2-1.4
Date Sampled		18/01/2017	18/01/2017	18/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
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	0.6	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.2	<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	0.2	<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 +ve PAH's	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	1.2	NIL (+)VE
Surrogate p-Terphenyl-d14	%	88	88	95	98	87

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	160502-16 BH106	160502-18 BH106	160502-19 BH107	160502-21 BH107	160502-22 BH108
Depth	-----	0.05-0.2	1.95-2.05	0-0.2	1.3-1.5	0.05-0.2
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
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	0.3	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.3	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.2	<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 +ve PAH's	mg/kg	2.1	NIL(+)VE	NIL(+)VE	NIL(+)VE	NIL(+)VE
Surrogate p-Terphenyl-d14	%	90	85	83	90	88

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	160502-24 BH108	160502-25 BH108	160502-26 BH109	160502-28 BH109	160502-30 BH110
Depth	-----	1.6-1.8	2.5-2.6	0-0.15	2-2.15	0.4-0.5
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
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 +ve PAH's	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	85	90	86	87	95

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	160502-31 BH110	160502-32 BH111	160502-34 BH111	160502-35 BH112	160502-37 BH112
Depth	-----	1.9-2.0	0-0.2	2.0-2.2	0-0.15	1.8-2.0
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
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 +ve PAH's	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	85	92	91	90	114

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	160502-38 BH113	160502-40 BH113	160502-41 BH114	160502-43 BH114	160502-45 BH115
Depth	-----	0-0.2	1.9-2.0	0-0.2	2.6-2.8	0.8-0.9
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
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 +ve PAH's	mg/kg	NIL(+)VE	NIL(+)VE	NIL(+)VE	NIL(+)VE	NIL(+)VE
Surrogate p-Terphenyl-d14	%	91	87	82	92	95

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	160502-46 BH115	160502-47 BH116	160502-50 BH117	160502-52 BH117	160502-53 DUPKT1
Depth	-----	2.0-2.1	0-0.15	0-0.15	1.9-2.05	-
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
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	0.4
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
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	0.2
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 +ve PAH's	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	1.1
Surrogate p-Terphenyl-d14	%	84	91	92	87	93

Organochlorine Pesticides in soil	UNITS	160502-2	160502-3	160502-4	160502-6	160502-8
Our Reference:	-----	BH101	BH101	BH102	BH102	BH103
Your Reference	-					
Depth	-----	0.8-1.0	3-3.2	0-0.2	2.5-2.7	0.8-1.0
Date Sampled		16/01/2017	16/01/2017	16/01/2017	16/01/2017	18/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	99	100	106	100	99

Organochlorine Pesticides in soil	UNITS	160502-9	160502-10	160502-12	160502-13	160502-15
Our Reference:	-----	BH103	BH104	BH104	BH105	BH105
Your Reference	-					
Depth	-----	2.7-3.0	0-0.2	3.8-3.0	0-0.1	1.2-1.4
Date Sampled		18/01/2017	18/01/2017	18/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	98	102	100	105	98

Organochlorine Pesticides in soil	UNITS	160502-16	160502-18	160502-19	160502-21	160502-22
Our Reference:	-----	BH106	BH106	BH107	BH107	BH108
Your Reference	-					
Depth	-----	0.05-0.2	1.95-2.05	0-0.2	1.3-1.5	0.05-0.2
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	99	96	99	104	98

Organochlorine Pesticides in soil	UNITS	160502-24	160502-25	160502-26	160502-28	160502-30
Our Reference:	-----	BH108	BH108	BH109	BH109	BH110
Your Reference	-					
Depth	-----	1.6-1.8	2.5-2.6	0-0.15	2-2.15	0.4-0.5
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	99	96	98	96	95

Organochlorine Pesticides in soil	UNITS	160502-31	160502-32	160502-34	160502-35	160502-37
Our Reference:	-----	BH110	BH111	BH111	BH112	BH112
Your Reference	-					
Depth	-----	1.9-2.0	0-0.2	2.0-2.2	0-0.15	1.8-2.0
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	97	95	94	97	93

Organochlorine Pesticides in soil	UNITS	160502-38	160502-40	160502-41	160502-43	160502-45
Our Reference:	-----	BH113	BH113	BH114	BH114	BH115
Your Reference	-					
Depth	-----	0-0.2	1.9-2.0	0-0.2	2.6-2.8	0.8-0.9
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	21/01/2017	21/01/2017
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	%	92	94	95	95	99

Organochlorine Pesticides in soil	UNITS	160502-46	160502-47	160502-50	160502-52	160502-53
Our Reference:	-----	BH115	BH116	BH117	BH117	DUPKT1
Your Reference	-					
Depth	-----	2.0-2.1	0-0.15	0-0.15	1.9-2.05	-
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	21/01/2017	21/01/2017	21/01/2017	21/01/2017
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	%	91	93	97	100	96

Organophosphorus Pesticides	UNITS	160502-2	160502-3	160502-4	160502-6	160502-8
Our Reference:	-----	BH101	BH101	BH102	BH102	BH103
Your Reference	-					
Depth	-----	0.8-1.0	3-3.2	0-0.2	2.5-2.7	0.8-1.0
Date Sampled		16/01/2017	16/01/2017	16/01/2017	16/01/2017	18/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	99	100	106	100	99

Organophosphorus Pesticides	UNITS	160502-9	160502-10	160502-12	160502-13	160502-15
Our Reference:	-----	BH103	BH104	BH104	BH105	BH105
Your Reference	-					
Depth	-----	2.7-3.0	0-0.2	3.8-3.0	0-0.1	1.2-1.4
Date Sampled		18/01/2017	18/01/2017	18/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	98	102	100	105	98

Organophosphorus Pesticides	UNITS	160502-16	160502-18	160502-19	160502-21	160502-22
Our Reference:	-----	BH106	BH106	BH107	BH107	BH108
Your Reference	-					
Depth	-----	0.05-0.2	1.95-2.05	0-0.2	1.3-1.5	0.05-0.2
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	99	96	99	104	98

Organophosphorus Pesticides	UNITS	160502-24	160502-25	160502-26	160502-28	160502-30
Our Reference:	-----	BH108	BH108	BH109	BH109	BH110
Your Reference	-					
Depth	-----	1.6-1.8	2.5-2.6	0-0.15	2-2.15	0.4-0.5
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	99	96	98	96	95

Organophosphorus Pesticides	UNITS	160502-31	160502-32	160502-34	160502-35	160502-37
Our Reference:	-----	BH110	BH111	BH111	BH112	BH112
Your Reference	-					
Depth	-----	1.9-2.0	0-0.2	2.0-2.2	0-0.15	1.8-2.0
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	97	95	94	97	93

Organophosphorus Pesticides	UNITS	160502-38	160502-40	160502-41	160502-43	160502-45
Our Reference:	-----	BH113	BH113	BH114	BH114	BH115
Your Reference	-					
Depth	-----	0-0.2	1.9-2.0	0-0.2	2.6-2.8	0.8-0.9
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	22/01/2017	22/01/2017
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	%	92	94	95	95	99

Organophosphorus Pesticides						
Our Reference:	UNITS	160502-46	160502-47	160502-50	160502-52	160502-53
Your Reference	-----	BH115	BH116	BH117	BH117	DUPKT1
	-					
Depth	-----	2.0-2.1	0-0.15	0-0.15	1.9-2.05	-
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	91	93	97	100	96

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	160502-2 BH101	160502-3 BH101	160502-4 BH102	160502-6 BH102	160502-8 BH103
Depth Date Sampled Type of sample	----- ----- -----	0.8-1.0 16/01/2017 Soil	3-3.2 16/01/2017 Soil	0-0.2 16/01/2017 Soil	2.5-2.7 16/01/2017 Soil	0.8-1.0 18/01/2017 Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	21/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	99	100	106	100	99

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	160502-9 BH103	160502-10 BH104	160502-12 BH104	160502-13 BH105	160502-15 BH105
Depth Date Sampled Type of sample	----- ----- -----	2.7-3.0 18/01/2017 Soil	0-0.2 18/01/2017 Soil	3.8-3.0 18/01/2017 Soil	0-0.1 17/01/2017 Soil	1.2-1.4 17/01/2017 Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	98	102	100	105	98

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	160502-16 BH106	160502-18 BH106	160502-19 BH107	160502-21 BH107	160502-22 BH108
Depth Date Sampled Type of sample	----- ----- -----	0.05-0.2 17/01/2017 Soil	1.95-2.05 17/01/2017 Soil	0-0.2 17/01/2017 Soil	1.3-1.5 17/01/2017 Soil	0.05-0.2 17/01/2017 Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	99	96	99	104	98

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	160502-24 BH108	160502-25 BH108	160502-26 BH109	160502-28 BH109	160502-30 BH110
Depth Date Sampled Type of sample	----- ----- -----	1.6-1.8 17/01/2017 Soil	2.5-2.6 17/01/2017 Soil	0-0.15 17/01/2017 Soil	2-2.15 17/01/2017 Soil	0.4-0.5 17/01/2017 Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	99	96	98	96	95

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	160502-31 BH110	160502-32 BH111	160502-34 BH111	160502-35 BH112	160502-37 BH112
Depth	-----	1.9-2.0	0-0.2	2.0-2.2	0-0.15	1.8-2.0
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
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	%	97	95	94	97	93

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	160502-38 BH113	160502-40 BH113	160502-41 BH114	160502-43 BH114	160502-45 BH115
Depth	-----	0-0.2	1.9-2.0	0-0.2	2.6-2.8	0.8-0.9
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	22/01/2017	22/01/2017
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	%	92	94	95	95	99

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	160502-46 BH115	160502-47 BH116	160502-50 BH117	160502-52 BH117	160502-53 DUPKT1
Depth Date Sampled Type of sample	----- ----- -----	2.0-2.1 17/01/2017 Soil	0-0.15 17/01/2017 Soil	0-0.15 17/01/2017 Soil	1.9-2.05 17/01/2017 Soil	- 17/01/2017 Soil
Date extracted	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	22/01/2017	22/01/2017	22/01/2017	22/01/2017	22/01/2017
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	%	91	93	97	100	96

Acid Extractable metals in soil						
Our Reference:	UNITS	160502-2	160502-3	160502-4	160502-6	160502-8
Your Reference	-----	BH101	BH101	BH102	BH102	BH103
	-					
Depth	-----	0.8-1.0	3-3.2	0-0.2	2.5-2.7	0.8-1.0
Date Sampled		16/01/2017	16/01/2017	16/01/2017	16/01/2017	18/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Arsenic	mg/kg	7	22	7	<4	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	17	23	12	16
Copper	mg/kg	33	40	17	25	45
Lead	mg/kg	19	17	21	10	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	13	16	8	4	22
Zinc	mg/kg	54	64	25	20	75

Acid Extractable metals in soil						
Our Reference:	UNITS	160502-9	160502-10	160502-12	160502-13	160502-15
Your Reference	-----	BH103	BH104	BH104	BH105	BH105
	-					
Depth	-----	2.7-3.0	0-0.2	3.8-3.0	0-0.1	1.2-1.4
Date Sampled		18/01/2017	18/01/2017	18/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Arsenic	mg/kg	6	6	10	5	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	16	16	8	14
Copper	mg/kg	34	33	27	27	26
Lead	mg/kg	17	18	20	27	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	12	13	7	9	9
Zinc	mg/kg	56	50	33	89	33

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	160502-16 BH106	160502-18 BH106	160502-19 BH107	160502-21 BH107	160502-22 BH108
Depth Date Sampled Type of sample	----- ----- -----	0.05-0.2 17/01/2017 Soil	1.95-2.05 17/01/2017 Soil	0-0.2 17/01/2017 Soil	1.3-1.5 17/01/2017 Soil	0.05-0.2 17/01/2017 Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Arsenic	mg/kg	9	7	5	11	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	11	12	16	13	22
Copper	mg/kg	29	28	24	18	19
Lead	mg/kg	13	10	18	10	22
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	40	5	11	4	9
Zinc	mg/kg	120	23	46	19	41

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	160502-24 BH108	160502-25 BH108	160502-26 BH109	160502-28 BH109	160502-30 BH110
Depth Date Sampled Type of sample	----- ----- -----	1.6-1.8 17/01/2017 Soil	2.5-2.6 17/01/2017 Soil	0-0.15 17/01/2017 Soil	2-2.15 17/01/2017 Soil	0.4-0.5 17/01/2017 Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Arsenic	mg/kg	6	13	7	9	4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	28	14	28	15
Copper	mg/kg	24	26	33	19	24
Lead	mg/kg	21	23	18	16	18
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	16	8	13	8	15
Zinc	mg/kg	54	38	53	25	53

Acid Extractable metals in soil	UNITS	160502-31	160502-32	160502-34	160502-35	160502-37
Our Reference:	-----	BH110	BH111	BH111	BH112	BH112
Your Reference	-					
Depth	-----	1.9-2.0	0-0.2	2.0-2.2	0-0.15	1.8-2.0
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Arsenic	mg/kg	6	6	6	9	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	14	19	15	22	17
Copper	mg/kg	16	19	20	21	21
Lead	mg/kg	13	17	12	25	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	9	8	11	9
Zinc	mg/kg	16	27	25	40	28

Acid Extractable metals in soil	UNITS	160502-38	160502-40	160502-41	160502-43	160502-45
Our Reference:	-----	BH113	BH113	BH114	BH114	BH115
Your Reference	-					
Depth	-----	0-0.2	1.9-2.0	0-0.2	2.6-2.8	0.8-0.9
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Arsenic	mg/kg	9	<4	10	5	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	24	11	24	16	13
Copper	mg/kg	17	15	23	16	27
Lead	mg/kg	28	10	28	12	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	11	5	11	5	9
Zinc	mg/kg	33	16	39	19	45

Acid Extractable metals in soil						
Our Reference:	UNITS	160502-46	160502-47	160502-50	160502-52	160502-53
Your Reference	-----	BH115	BH116	BH117	BH117	DUPKT1
	-					
Depth	-----	2.0-2.1	0-0.15	0-0.15	1.9-2.05	-
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Arsenic	mg/kg	8	9	5	5	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	27	22	12	13
Copper	mg/kg	18	14	17	15	26
Lead	mg/kg	18	21	21	13	23
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	7	7	6	11
Zinc	mg/kg	37	19	20	23	68

Moisture Our Reference: Your Reference	UNITS ----- -	160502-2 BH101	160502-3 BH101	160502-4 BH102	160502-6 BH102	160502-8 BH103
Depth Date Sampled Type of sample	----- 	0.8-1.0 16/01/2017 Soil	3-3.2 16/01/2017 Soil	0-0.2 16/01/2017 Soil	2.5-2.7 16/01/2017 Soil	0.8-1.0 18/01/2017 Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Moisture	%	12	9.5	8.5	19	11

Moisture Our Reference: Your Reference	UNITS ----- -	160502-9 BH103	160502-10 BH104	160502-12 BH104	160502-13 BH105	160502-15 BH105
Depth Date Sampled Type of sample	----- 	2.7-3.0 18/01/2017 Soil	0-0.2 18/01/2017 Soil	3.8-3.0 18/01/2017 Soil	0-0.1 17/01/2017 Soil	1.2-1.4 17/01/2017 Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Moisture	%	14	7.5	12	7.5	19

Moisture Our Reference: Your Reference	UNITS ----- -	160502-16 BH106	160502-18 BH106	160502-19 BH107	160502-21 BH107	160502-22 BH108
Depth Date Sampled Type of sample	----- 	0.05-0.2 17/01/2017 Soil	1.95-2.05 17/01/2017 Soil	0-0.2 17/01/2017 Soil	1.3-1.5 17/01/2017 Soil	0.05-0.2 17/01/2017 Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Moisture	%	10	18	11	16	8.6

Moisture Our Reference: Your Reference	UNITS ----- -	160502-24 BH108	160502-25 BH108	160502-26 BH109	160502-28 BH109	160502-30 BH110
Depth Date Sampled Type of sample	----- 	1.6-1.8 17/01/2017 Soil	2.5-2.6 17/01/2017 Soil	0-0.15 17/01/2017 Soil	2-2.15 17/01/2017 Soil	0.4-0.5 17/01/2017 Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Moisture	%	13	12	11	13	13

Moisture Our Reference: Your Reference	UNITS ----- -	160502-31 BH110	160502-32 BH111	160502-34 BH111	160502-35 BH112	160502-37 BH112
Depth Date Sampled Type of sample	----- ----- -----	1.9-2.0 17/01/2017 Soil	0-0.2 17/01/2017 Soil	2.0-2.2 17/01/2017 Soil	0-0.15 17/01/2017 Soil	1.8-2.0 17/01/2017 Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Moisture	%	15	10	15	9.3	13

Moisture Our Reference: Your Reference	UNITS ----- -	160502-38 BH113	160502-40 BH113	160502-41 BH114	160502-43 BH114	160502-45 BH115
Depth Date Sampled Type of sample	----- ----- -----	0-0.2 17/01/2017 Soil	1.9-2.0 17/01/2017 Soil	0-0.2 17/01/2017 Soil	2.6-2.8 17/01/2017 Soil	0.8-0.9 17/01/2017 Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Moisture	%	10	13	9.4	15	15

Moisture Our Reference: Your Reference	UNITS ----- -	160502-46 BH115	160502-47 BH116	160502-50 BH117	160502-52 BH117	160502-53 DUPKT1
Depth Date Sampled Type of sample	----- ----- -----	2.0-2.1 17/01/2017 Soil	0-0.15 17/01/2017 Soil	0-0.15 17/01/2017 Soil	1.9-2.05 17/01/2017 Soil	- 17/01/2017 Soil
Date prepared	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Date analysed	-	23/01/2017	23/01/2017	23/01/2017	23/01/2017	23/01/2017
Moisture	%	16	7.8	10	18	9.2

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	160502-2 BH101	160502-4 BH102	160502-8 BH103	160502-10 BH104	160502-13 BH105
Depth	-----	0.8-1.0	0-0.2	0.8-1.0	0-0.2	0-0.1
Date Sampled		16/01/2017	16/01/2017	18/01/2017	18/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Sample mass tested	g	Approx. 45g	Approx. 45g	Approx. 50g	Approx. 35g	Approx. 20g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown sandy soil
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: Your Reference	UNITS ----- -	160502-16 BH106	160502-19 BH107	160502-22 BH108	160502-26 BH109	160502-30 BH110
Depth	-----	0.05-0.2	0-0.2	0.05-0.2	0-0.15	0.4-0.5
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Sample mass tested	g	Approx. 35g	Approx. 35g	Approx. 35g	Approx. 35g	Approx. 55g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained 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: Your Reference	UNITS ----- -	160502-32 BH111	160502-35 BH112	160502-38 BH113	160502-41 BH114	160502-45 BH115
Depth	-----	0-0.2	0-0.15	0-0.2	0-0.2	0.8-0.9
Date Sampled		17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	20/01/2017	20/01/2017	20/01/2017	20/01/2017	20/01/2017
Sample mass tested	g	Approx. 20g	Approx. 25g	Approx. 30g	Approx. 15g	Approx. 35g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained 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: Your Reference	UNITS ----- -	160502-47 BH116	160502-50 BH117
Depth	-----	0-0.15	0-0.15
Date Sampled		17/01/2017	17/01/2017
Type of sample		Soil	Soil
Date analysed	-	20/01/2017	20/01/2017
Sample mass tested	g	Approx. 20g	Approx. 30g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained 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
Trace Analysis	-	No asbestos detected	No 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	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	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 °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	-			20/01/2017	160502-2	20/01/2017 20/01/2017	LCS-6	20/01/2017
Date analysed	-			23/01/2017	160502-2	23/01/2017 23/01/2017	LCS-6	23/01/2017
TRHC ₆ - C ₉	mg/kg	25	Org-016	<25	160502-2	<25 <25	LCS-6	93%
TRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	160502-2	<25 <25	LCS-6	93%
Benzene	mg/kg	0.2	Org-016	<0.2	160502-2	<0.2 <0.2	LCS-6	90%
Toluene	mg/kg	0.5	Org-016	<0.5	160502-2	<0.5 <0.5	LCS-6	90%
Ethylbenzene	mg/kg	1	Org-016	<1	160502-2	<1 <1	LCS-6	93%
m+p-xylene	mg/kg	2	Org-016	<2	160502-2	<2 <2	LCS-6	96%
o-Xylene	mg/kg	1	Org-016	<1	160502-2	<1 <1	LCS-6	94%
naphthalene	mg/kg	1	Org-014	<1	160502-2	<1 <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	101	160502-2	94 99 RPD: 5	LCS-6	95%
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	-			23/01/2017	160502-2	20/01/2017 20/01/2017	LCS-6	23/01/2017
Date analysed	-			24/01/2017	160502-2	21/01/2017 21/01/2017	LCS-6	24/01/2017
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	160502-2	<50 <50	LCS-6	112%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	160502-2	<100 <100	LCS-6	116%
TRHC ₂₈ - C ₃₆	mg/kg	100	Org-003	<100	160502-2	<100 <100	LCS-6	106%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	160502-2	<50 <50	LCS-6	112%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	160502-2	<100 <100	LCS-6	116%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	160502-2	<100 <100	LCS-6	106%
Surrogate o-Terphenyl	%		Org-003	85	160502-2	90 85 RPD: 6	LCS-6	96%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			20/01/2017	160502-2	20/01/2017 20/01/2017	LCS-6	20/01/2017
Date analysed	-			20/01/2017	160502-2	20/01/2017 20/01/2017	LCS-6	20/01/2017
Naphthalene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	LCS-6	85%
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	LCS-6	87%
Phenanthrene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	LCS-6	92%
Anthracene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	LCS-6	90%
Pyrene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	LCS-6	92%
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	LCS-6	90%
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	160502-2	<0.2 <0.2	[NR]	[NR]

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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		
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	160502-2	0.05 0.07 RPD: 33	LCS-6	90%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	93	160502-2	92 85 RPD: 8	LCS-6	106%
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	-			20/01/2017	160502-2	20/01/2017 20/01/2017	LCS-6	20/01/2017
Date analysed	-			23/01/2017	160502-2	21/01/2017 21/01/2017	LCS-6	21/01/2017
HCB	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	99%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	108%
Heptachlor	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	112%
delta-BHC	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	106%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	119%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	120%
Dieldrin	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	126%
Endrin	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	115%
pp-DDD	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	113%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	LCS-6	123%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-005	99	160502-2	99 100 RPD: 1	LCS-6	106%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			20/01/2017	160502-2	20/01/2017 20/01/2017	LCS-6	20/01/2017
Date analysed	-			23/01/2017	160502-2	21/01/2017 21/01/2017	LCS-6	21/01/2017
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	LCS-6	105%
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	LCS-6	86%
Dimethoate	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	LCS-6	88%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	LCS-6	113%
Malathion	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	LCS-6	70%
Parathion	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	LCS-6	106%
Ronnel	mg/kg	0.1	Org-008	<0.1	160502-2	<0.1 <0.1	LCS-6	112%
Surrogate TCMX	%		Org-008	99	160502-2	99 100 RPD: 1	LCS-6	101%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			20/01/2017	160502-2	20/01/2017 20/01/2017	LCS-6	20/01/2017
Date analysed	-			23/01/2017	160502-2	21/01/2017 21/01/2017	LCS-6	21/01/2017
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	160502-2	<0.1 <0.1	LCS-6	129%
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	160502-2	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	99	160502-2	99 100 RPD: 1	LCS-6	101%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base Duplicate %RPD		
Date prepared	-			20/01/2017	160502-2	20/01/2017 20/01/2017	LCS-1	20/01/2017
Date analysed	-			23/01/2017	160502-2	23/01/2017 23/01/2017	LCS-1	23/01/2017
Arsenic	mg/kg	4	Metals-020	<4	160502-2	7 8 RPD: 13	LCS-1	121%
Cadmium	mg/kg	0.4	Metals-020	<0.4	160502-2	<0.4 <0.4	LCS-1	109%
Chromium	mg/kg	1	Metals-020	<1	160502-2	17 15 RPD: 12	LCS-1	116%
Copper	mg/kg	1	Metals-020	<1	160502-2	33 33 RPD: 0	LCS-1	113%
Lead	mg/kg	1	Metals-020	<1	160502-2	19 20 RPD: 5	LCS-1	110%
Mercury	mg/kg	0.1	Metals-021	<0.1	160502-2	<0.1 <0.1	LCS-1	101%
Nickel	mg/kg	1	Metals-020	<1	160502-2	13 14 RPD: 7	LCS-1	107%
Zinc	mg/kg	1	Metals-020	<1	160502-2	54 54 RPD: 0	LCS-1	107%
QUALITYCONTROL vTRH(C6-C10)/BTExNin Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	160502-16		20/01/2017 20/01/2017		LCS-7	20/01/2017	
Date analysed	-	160502-16		23/01/2017 23/01/2017		LCS-7	23/01/2017	
TRHC ₆ - C ₉	mg/kg	160502-16		<25 <25		LCS-7	101%	
TRHC ₆ - C ₁₀	mg/kg	160502-16		<25 <25		LCS-7	101%	
Benzene	mg/kg	160502-16		<0.2 <0.2		LCS-7	98%	
Toluene	mg/kg	160502-16		<0.5 <0.5		LCS-7	97%	
Ethylbenzene	mg/kg	160502-16		<1 <1		LCS-7	100%	
m+p-xylene	mg/kg	160502-16		<2 <2		LCS-7	104%	
o-Xylene	mg/kg	160502-16		<1 <1		LCS-7	102%	
naphthalene	mg/kg	160502-16		<1 <1		[NR]	[NR]	
Surrogate aaa-Trifluorotoluene	%	160502-16		94 87 RPD: 8		LCS-7	101%	
QUALITYCONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	160502-16		20/01/2017 20/01/2017		LCS-7	20/01/2017	
Date analysed	-	160502-16		21/01/2017 21/01/2017		LCS-7	21/01/2017	
TRHC ₁₀ - C ₁₄	mg/kg	160502-16		<50 <50		LCS-7	122%	
TRHC ₁₅ - C ₂₈	mg/kg	160502-16		<100 <100		LCS-7	118%	
TRHC ₂₉ - C ₃₆	mg/kg	160502-16		<100 <100		LCS-7	106%	
TRH>C ₁₀ -C ₁₆	mg/kg	160502-16		<50 <50		LCS-7	122%	
TRH>C ₁₆ -C ₃₄	mg/kg	160502-16		<100 <100		LCS-7	118%	
TRH>C ₃₄ -C ₄₀	mg/kg	160502-16		<100 <100		LCS-7	106%	
Surrogate o-Terphenyl	%	160502-16		94 95 RPD: 1		LCS-7	103%	

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	160502-16	20/01/2017 20/01/2017	LCS-7	20/01/2017
Date analysed	-	160502-16	20/01/2017 20/01/2017	LCS-7	20/01/2017
Naphthalene	mg/kg	160502-16	<0.1 <0.1	LCS-7	82%
Acenaphthylene	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	160502-16	<0.1 <0.1	LCS-7	88%
Phenanthrene	mg/kg	160502-16	0.3 <0.1	LCS-7	94%
Anthracene	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	160502-16	0.4 <0.1	LCS-7	97%
Pyrene	mg/kg	160502-16	0.4 <0.1	LCS-7	98%
Benzo(a)anthracene	mg/kg	160502-16	0.2 <0.1	[NR]	[NR]
Chrysene	mg/kg	160502-16	0.2 <0.1	LCS-7	92%
Benzo(b,j+k)fluoranthene	mg/kg	160502-16	0.3 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	160502-16	0.2 <0.05	LCS-7	95%
Indeno(1,2,3-c,d)pyrene	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	160502-16	0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	160502-16	90 87 RPD: 3	LCS-7	112%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	160502-16	20/01/2017 20/01/2017	LCS-7	20/01/2017
Date analysed	-	160502-16	22/01/2017 22/01/2017	LCS-7	23/01/2017
HCB	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	160502-16	<0.1 <0.1	LCS-7	96%
gamma-BHC	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	160502-16	<0.1 <0.1	LCS-7	106%
Heptachlor	mg/kg	160502-16	<0.1 <0.1	LCS-7	109%
delta-BHC	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	160502-16	<0.1 <0.1	LCS-7	102%
Heptachlor Epoxide	mg/kg	160502-16	<0.1 <0.1	LCS-7	115%
gamma-Chlordane	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	160502-16	<0.1 <0.1	LCS-7	117%
Dieldrin	mg/kg	160502-16	<0.1 <0.1	LCS-7	122%
Endrin	mg/kg	160502-16	<0.1 <0.1	LCS-7	111%
pp-DDD	mg/kg	160502-16	<0.1 <0.1	LCS-7	120%
Endosulfan II	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	160502-16	<0.1 <0.1	LCS-7	101%

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QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Methoxychlor	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	160502-16	99 98 RPD: 1	LCS-7	104%
QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	160502-16	20/01/2017 20/01/2017	LCS-7	20/01/2017
Date analysed	-	160502-16	22/01/2017 22/01/2017	LCS-7	23/01/2017
Azinphos-methyl (Guthion)	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Bromophos-ethyl	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	160502-16	<0.1 <0.1	LCS-7	101%
Chlorpyrifos-methyl	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	160502-16	<0.1 <0.1	LCS-7	79%
Dimethoate	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	160502-16	<0.1 <0.1	LCS-7	79%
Fenitrothion	mg/kg	160502-16	<0.1 <0.1	LCS-7	107%
Malathion	mg/kg	160502-16	<0.1 <0.1	LCS-7	74%
Parathion	mg/kg	160502-16	<0.1 <0.1	LCS-7	92%
Ronnel	mg/kg	160502-16	<0.1 <0.1	LCS-7	106%
Surrogate TCMX	%	160502-16	99 98 RPD: 1	LCS-7	100%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	160502-16	20/01/2017 20/01/2017	LCS-7	20/01/2017
Date analysed	-	160502-16	22/01/2017 22/01/2017	LCS-7	23/01/2017
Aroclor 1016	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	160502-16	<0.1 <0.1	LCS-7	124%
Aroclor 1260	mg/kg	160502-16	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	160502-16	99 98 RPD: 1	LCS-7	100%

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QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	160502-16	20/01/2017 20/01/2017	LCS-2	20/01/2017
Date analysed	-	160502-16	23/01/2017 23/01/2017	LCS-2	23/01/2017
Arsenic	mg/kg	160502-16	9 10 RPD: 11	LCS-2	120%
Cadmium	mg/kg	160502-16	<0.4 <0.4	LCS-2	109%
Chromium	mg/kg	160502-16	11 14 RPD: 24	LCS-2	115%
Copper	mg/kg	160502-16	29 32 RPD: 10	LCS-2	112%
Lead	mg/kg	160502-16	13 21 RPD: 47	LCS-2	111%
Mercury	mg/kg	160502-16	<0.1 <0.1	LCS-2	91%
Nickel	mg/kg	160502-16	40 34 RPD: 16	LCS-2	106%
Zinc	mg/kg	160502-16	120 81 RPD: 39	LCS-2	106%
QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	160502-31	20/01/2017 20/01/2017	160502-3	20/01/2017
Date analysed	-	160502-31	23/01/2017 23/01/2017	160502-3	23/01/2017
TRHC ₆ - C ₉	mg/kg	160502-31	<25 <25	160502-3	90%
TRHC ₆ - C ₁₀	mg/kg	160502-31	<25 <25	160502-3	90%
Benzene	mg/kg	160502-31	<0.2 <0.2	160502-3	87%
Toluene	mg/kg	160502-31	<0.5 <0.5	160502-3	87%
Ethylbenzene	mg/kg	160502-31	<1 <1	160502-3	90%
m+p-xylene	mg/kg	160502-31	<2 <2	160502-3	93%
o-Xylene	mg/kg	160502-31	<1 <1	160502-3	92%
naphthalene	mg/kg	160502-31	<1 <1	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	160502-31	97 92 RPD: 5	160502-3	96%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	160502-31	20/01/2017 20/01/2017	160502-3	20/01/2017
Date analysed	-	160502-31	21/01/2017 21/01/2017	160502-3	21/01/2017
TRHC ₁₀ - C ₁₄	mg/kg	160502-31	<50 <50	160502-3	117%
TRHC ₁₅ - C ₂₈	mg/kg	160502-31	<100 <100	160502-3	113%
TRHC ₂₉ - C ₃₆	mg/kg	160502-31	<100 <100	160502-3	64%
TRH>C ₁₀ -C ₁₆	mg/kg	160502-31	<50 <50	160502-3	117%
TRH>C ₁₆ -C ₃₄	mg/kg	160502-31	<100 <100	160502-3	113%
TRH>C ₃₄ -C ₄₀	mg/kg	160502-31	<100 <100	160502-3	64%
Surrogate o-Terphenyl	%	160502-31	92 91 RPD: 1	160502-3	94%

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	160502-31	20/01/2017 20/01/2017	160502-3	20/01/2017
Date analysed	-	160502-31	20/01/2017 20/01/2017	160502-3	20/01/2017
Naphthalene	mg/kg	160502-31	<0.1 <0.1	160502-3	84%
Acenaphthylene	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	160502-31	<0.1 <0.1	160502-3	85%
Phenanthrene	mg/kg	160502-31	<0.1 <0.1	160502-3	82%
Anthracene	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	160502-31	<0.1 <0.1	160502-3	83%
Pyrene	mg/kg	160502-31	<0.1 <0.1	160502-3	88%
Benzo(a)anthracene	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	160502-31	<0.1 <0.1	160502-3	84%
Benzo(b,j+k)fluoranthene	mg/kg	160502-31	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	160502-31	<0.05 <0.05	160502-3	86%
Indeno(1,2,3-c,d)pyrene	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	160502-31	85 94 RPD: 10	160502-3	105%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	160502-31	20/01/2017 20/01/2017	160502-3	20/01/2017
Date analysed	-	160502-31	23/01/2017 23/01/2017	160502-3	22/01/2017
HCB	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	160502-31	<0.1 <0.1	160502-3	98%
gamma-BHC	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	160502-31	<0.1 <0.1	160502-3	103%
Heptachlor	mg/kg	160502-31	<0.1 <0.1	160502-3	108%
delta-BHC	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	160502-31	<0.1 <0.1	160502-3	102%
Heptachlor Epoxide	mg/kg	160502-31	<0.1 <0.1	160502-3	116%
gamma-Chlordane	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	160502-31	<0.1 <0.1	160502-3	116%
Dieldrin	mg/kg	160502-31	<0.1 <0.1	160502-3	121%
Endrin	mg/kg	160502-31	<0.1 <0.1	160502-3	111%
pp-DDD	mg/kg	160502-31	<0.1 <0.1	160502-3	121%
Endosulfan II	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	160502-31	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	160502-31	<0.1 <0.1	160502-3	110%