

NOTE: Reference should be made to the text for a full understanding of this plan.

0 10 20 30 40 50

APPENDIX A

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

1

1/1

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY HARBOUR FORESHORE AUTHORITY
Project: PROPOSED COMMERCIAL DEVELOPMENT
Location: DARLING WALK, DARLING HARBOUR, SYDNEY, NSW

Job No. E21073F

Method: SPIRAL AUGER
JK250

R.L. Surface:

Date: 23-3-07

Datum:

Logged/Checked by: T.H./*BM*

Groundwater Record	ES	ASB	ASS	DS	SAMPLES	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
						N = 18 8,9,9	0		-	PAVERS: 100mm.t FILL: Silty clayey sand, fine to coarse grained, orange brown and grey, with a trace of sandstone gravel and timber fragments.	D	-	-	APPEARS MODERATELY COMPACTED
							1		-	as above, but with shale gravel.				APPEARS WELL COMPACTED
						N = 24 6,11,13	2			FILL: Silty sand, fine grained, dark brown, with a trace of organic material.	M			APPEARS MODERATELY COMPACTED
							3			FILL: Clayey sand, medium to coarse grained, orange brown, with XW sandstone bands.				
						N = 12 4,5,7	4		SM	SILTY SAND: fine to medium grained, dark grey.	W	-	-	
							5		-	SANDSTONE: medium to coarse grained, orange brown.	XW	VL	-	LOW 'TC' BIT RESISTANCE
						N > 17 11,5/ 20mm REFUSAL	6			as above, but light grey.	DW	L		
							7			END OF BOREHOLE AT 6.0m				

ON COMPLETION

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

2

1/1

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY HARBOUR FORESHORE AUTHORITY
Project: PROPOSED COMMERCIAL DEVELOPMENT
Location: DARLING WALK, DARLING HARBOUR, SYDNEY, NSW

Job No. E21073F

Method: SPIRAL AUGER
JK250

R.L. Surface:

Date: 23-3-07

Datum:

Logged/Checked by: T.H./ *TH*

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASB	ASS	DS									
DRY ON COMPLETION						0		-	PAVERS: 100mm.t FILL: Silty sand, fine to coarse grained, brown, with sandstone gravel.	D	-	-	APPEARS MODERATELY COMPACTED
					N = 11 4,6,5	1			FILL: Silty clay, low plasticity, light brown, with sand and a trace of sandstone and igneous gravel.	MC < PL			
					N > 10 20,10/ 50mm	2			FILL: Silty sand, fine to coarse grained, light brown, with sandstone gravel and a trace of igneous gravel.	D			APPEARS WELL COMPACTED
					N = 20 7,12,8	3			FILL: Silty sand, fine to medium grained, brown, with sandstone and igneous gravel, a trace of brick, ash and timber fragments.				
						4		-	SANDSTONE: fine to medium grained, orange brown.	SW	M	-	VERY HIGH 'TC' BIT RESISTANCE POSSIBLY FILL
						5			END OF BOREHOLE AT 4.7m				'TC' BIT REFUSAL
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

3

1/1

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY HARBOUR FORESHORE AUTHORITY
Project: PROPOSED COMMERCIAL DEVELOPMENT
Location: DARLING WALK, DARLING HARBOUR, SYDNEY, NSW

Job No. E21073F

Method: SPIRAL AUGER
JK250

R.L. Surface:

Date: 23-3-07

Datum:

Logged/Checked by: T.H./~~PL~~

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB	DS									
DRY ON COMPLETION					N > 30 30/140mm	0		-	PAVERS: 100mm.t FILL: Silty sand, fine to coarse grained, light grey.	D	-	-	
						1			FILL: Silty sand, fine to medium grained, brown, with igneous and sandstone gravel and a trace of metal fragments. END OF BOREHOLE AT 1.4m				
						2							'TC' BIT REFUSAL ON OBSTRUCTION IN FILL
						3							
						4							
						5							
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

4

1/1

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY HARBOUR FORESHORE AUTHORITY
Project: PROPOSED COMMERCIAL DEVELOPMENT
Location: DARLING WALK, DARLING HARBOUR, SYDNEY, NSW

Job No. E21073F

Method: SPIRAL AUGER

R.L. Surface:

Date: 23-3-07

JK250

Datum:

Logged/Checked by: T.H./

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	U50	DB	DS									
DRY ON COMPLETION						0			ASPHALTIC CONCRETE: 50mm.t FILL: Silty sand, fine to medium grained, light brown, with sandstone and igneous gravel.	D	-	-	
					N > 29 29/150mm REFUSAL								
						1			END OF BOREOLE AT 1.0m				'TC' BIT RESUSAL ON INFERRED CONCRETE
						2							
						3							
						4							
						5							
						6							
						7							

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

5

1/2

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY HARBOUR FORESHORE AUTHORITY
Project: PROPOSED COMMERCIAL DEVELOPMENT
Location: DARLING WALK, DARLING HARBOUR, SYDNEY, NSW

Job No. E21073F

Method: SPIRAL AUGER
JK250

R.L. Surface:

Date: 23-3-07

Datum:

Logged/Checked by: T.H.

Groundwater Record	ES SAMPLER ASS DS	SAMPLES	Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
			N = 17 20,11,6	0		-	PAVERS: 100mm.t FILL: Silty sand, fine to medium grained, light brown, with a trace of igneous and sandstone gravel and plastic fragments.	D	-	-	APPEARS MODERATELY COMPACTED
			N > 32 18,25, 7/50mm	1			FILL: Silty clayey sand, fine to medium grained, dark brown, with igneous gravel and a trace of brick fragments and ash.	M			APPEARS WELL COMPACTED
			N = 14 16,10,4	2			FILL: Silty sand, fine to coarse grained, dark brown, with igneous gravel.	D			APPEARS MODERATELY COMPACTED
				3			FILL: Sand, medium to coarse grained, orange brown, with sandstone gravel.				
				4		SM	SILTY SAND: fine to coarse grained, grey.	W	VL		
			N = 3 2,1,2	5		SC	as above, but with organic material and shell fragments. CLAYEY SAND: fine to medium grained, orange brown.	W			
				6							
				7							

ON COMPLETION

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

5

2/2

Environmental logs are not to be used for geotechnical purposes

Client: SYDNEY HARBOUR FORESHORE AUTHORITY
Project: PROPOSED COMMERCIAL DEVELOPMENT
Location: DARLING WALK, DARLING HARBOUR, SYDNEY, NSW

Job No. E21073F

Method: SPIRAL AUGER
JK250

R.L. Surface:

Date: 23-3-07

Datum:

Logged/Checked by: T.H./

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASB	ASS	DS									
								SC	CLAYEY SAND: fine to medium grained, orange brown. as above, but light grey.	W	VL		
									END OF BOREHOLE AT 7.5m				
						8							
						9							
						10							
						11							
						12							
						13							
						14							

NO BH6

ENVIRONMENTAL INVESTIGATION SERVICES

CONSULTING ENVIRONMENTAL ENGINEERS



ENVIRONMENTAL LOG

Borehole No.

7

1/1

Environmental logs are not to be used for geotechnical purposes

No BH6

Client: SYDNEY HARBOUR FORESHORE AUTHORITY
Project: PROPOSED COMMERCIAL DEVELOPMENT
Location: DARLING WALK, DARLING HARBOUR, SYDNEY, NSW

Job No. E21073F

Method: SPIRAL AUGER
JK250

R.L. Surface:

Date: 26-3-07

Datum:

Logged/Checked by: T.H.

Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/Weathering	Strength/Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASB	ASS	DS									
DRY ON COMPLETION						0		-	PAVERS: 100mm.t	D	-	-	APPEARS WELL COMPACTED
					N = 23 24,11,12				FILL: Silty sand, fine to medium grained, grey brown, with igneous gravel and a trace of sandstone gravel and clay fines.				
						1			FILL: Sand, medium to coarse grained, light grey, with sandstone gravel.				
					N = 31 9,11,20				FILL: Silty sand, fine to coarse grained, light brown, with a trace of sandstone gravel.				
						2			FILL: Silty sand, fine to coarse grained, dark brown, with a trace of sandstone and igneous gravel, metal and concrete fragments.				'TC' BIT REFUSAL ON OBSTRUCTION IN FILL
									END OF BOREHOLE AT 2.4m				
						3							
						4							
						5							
						6							
						7							



REPORT EXPLANATION NOTES

INTRODUCTION

These notes have been provided to amplify the geotechnical report in regard to classification methods, field procedures and certain matters relating to the Comments and Recommendations section. Not all notes are necessarily relevant to all reports.

The ground is a product of continuing natural and man-made processes and therefore exhibits a variety of characteristics and properties which vary from place to place and can change with time. Geotechnical engineering involves gathering and assimilating limited facts about these characteristics and properties in order to understand or predict the behaviour of the ground on a particular site under certain conditions. This report may contain such facts obtained by inspection, excavation, probing, sampling, testing or other means of investigation. If so, they 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 (eg sandy clay) as set out below:

Soil Classification	Particle Size
Clay	less than 0.002mm
Silt	0.002 to 0.06mm
Sand	0.06 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 follows.

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.

SAMPLING

Sampling is carried out during drilling or from other excavations to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on plasticity, grain size, colour, moisture content, minor constituents and, depending upon the degree of disturbance, some information on strength and structure. Bulk samples are similar but of greater volume required for some test procedures.

Undisturbed samples are taken by pushing a thin-walled sample tube, usually 50mm diameter (known as a U50), into the soil and withdrawing it with a sample of the soil contained in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Details of the type and method of sampling used are given on the attached logs.

INVESTIGATION METHODS

The following is a brief summary of investigation methods currently adopted by the Company and some comments on their use and application. All except test pits, hand auger drilling and portable dynamic cone penetrometers require the use of a mechanical drilling rig which is commonly mounted on a truck chassis.



Test Pits: These are normally excavated with a backhoe or a tracked excavator, allowing close examination of the insitu soils if it is safe to descend into the pit. The depth of penetration is limited to about 3m for a backhoe and up to 6m for an excavator. Limitations of test pits are the problems associated with disturbance and difficulty of reinstatement and the consequent effects on close-by structures. Care must be taken if construction is to be carried out near test pit locations to either properly recompact 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 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 insitu 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. 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.

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 (eg 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 location 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 "N_c" on the borehole logs,



together with the number of blows per 150mm penetration.

Static Cone Penetrometer Testing and Interpretation: Cone penetrometer testing (sometimes referred to as a Dutch Cone) described in this report has been carried out using an Electronic Friction Cone Penetrometer (EFCP). The test is described in Australian Standard 1289, Test F5.1.

In the tests, a 35mm diameter rod with a conical tip is pushed continuously into the soil, the reaction being provided by a specially designed truck or rig which is fitted with an hydraulic ram system. Measurements are made of the end bearing resistance on the cone and the frictional resistance on a separate 134mm long sleeve, immediately behind the cone. Transducers in the tip of the assembly are electrically connected by wires passing through the centre of the push rods to an amplifier and recorder unit mounted on the control truck.

As penetration occurs (at a rate of approximately 20mm per second) the information is output as incremental digital records every 10mm. The results given in this report have been plotted from the digital data.

The information provided on the charts comprise:

- Cone resistance – the actual end bearing force divided by the cross sectional area of the cone – expressed in MPa.
- Sleeve friction – the frictional force on the sleeve divided by the surface area – expressed in kPa.
- Friction ratio – the ratio of sleeve friction to cone resistance, expressed as a percentage.

The ratios of the sleeve resistance to cone resistance will vary with the type of soil encountered, with higher relative friction in clays than in sands. Friction ratios of 1% to 2% are commonly encountered in sands and occasionally very soft clays, rising to 4% to 10% in stiff clays and peats. Soil descriptions based on cone resistance and friction ratios are only inferred and must not be considered as exact.

Correlations between EFCP and SPT values can be developed for both sands and clays but may be site specific.

Interpretation of EFCP values can be made to empirically derive modulus or compressibility values to allow calculation of foundation settlements.

Stratification can be inferred from the cone and friction traces and from experience and information from nearby boreholes etc. Where shown, this information is presented for general guidance, but must be regarded as interpretive. The test method provides a continuous profile of engineering properties but, where precise information on soil classification is required, direct drilling and sampling may be preferable.

Portable Dynamic Cone Penetrometers: Portable Dynamic Cone Penetrometer (DCP) tests are carried out by driving a rod into the ground with a sliding

hammer and counting the blows for successive 100mm increments of penetration.

Two relatively similar tests are used:

- Cone penetrometer (commonly known as the Scala Penetrometer) – a 16mm rod with a 20mm diameter cone end is driven with a 9kg hammer dropping 510mm (AS1289, Test F3.2). The test was developed initially for pavement subgrade investigations, and correlations of the test results with California Bearing Ratio have been published by various Road Authorities.
- Perth sand penetrometer – a 16mm diameter flat ended rod is driven with a 9kg hammer, dropping 600mm (AS1289, Test F3.3). This test was developed for testing the density of sands (originating in Perth) and is mainly used in granular soils and filling.

LOGS

The borehole or test pit logs presented herein are an engineering and/or geological interpretation of the sub-surface 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.
- 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 (eg bricks, 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. Consequently, there is an increased risk of adverse engineering characteristics or behaviour. 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 is normally carried out in accordance with Australian Standard 1289 "Methods of Testing Soil for Engineering Purposes". Details of the test procedure used are given on the individual report forms.

ENGINEERING REPORTS

Engineering reports are prepared by qualified personnel and are based on the information obtained and on current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal (eg a three storey building) the information and interpretation may not be relevant if the design proposal is changed (eg to a twenty storey building). If this happens, the company will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical aspects and recommendations or suggestions for design and construction. However, the Company cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions – the potential for this will be partially dependent on borehole spacing and sampling frequency as well as investigation technique.
- Changes in policy or interpretation of policy by statutory authorities.
- The actions of persons or contractors responding to commercial pressures.

If these occur, the company will be pleased to assist with investigation or advice to resolve any problems occurring.

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, the company requests that it immediately be notified. Most problems are much more readily resolved when conditions are exposed that at some later stage, well after the event.

REPRODUCTION OF INFORMATION FOR CONTRACTUAL PURPOSES

Attention is drawn to the document "Guidelines for the Provision of Geotechnical Information in Tender Documents", published by the Institution of Engineers, Australia. Where information obtained from this investigation is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. The company would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Copyright in all documents (such as drawings, borehole or test pit logs, reports and specifications) provided by the Company shall remain the property of Jeffery and Katauskas Pty Ltd. Subject to the payment of all fees due, the Client alone shall have a licence to use the documents provided for the sole purpose of completing the project to which they relate. License to use the documents may be revoked without notice if the Client is in breach of any objection to make a payment to us.

REVIEW OF DESIGN

Where major civil or structural developments are proposed or where only a limited investigation has been completed or where the geotechnical conditions/constraints are quite complex, it is prudent to have a joint design review which involves a senior geotechnical engineer.


































SITE INSPECTION

The company will always be pleased to provide engineering inspection services for geotechnical aspects of work to which this report is related.

Requirements could range from:

- i) a site visit to confirm that conditions exposed are no worse than those interpreted, to
- ii) a visit to assist the contractor or other site personnel in identifying various soil/rock types such as appropriate footing or pier founding depths, or
- iii) full time engineering presence on site.

GRAPHIC LOG SYMBOLS FOR SOILS AND ROCKS

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



UNIFIED SOIL CLASSIFICATION TABLE

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
Gravels More than half of coarse fraction is larger than 4 mm sieve size	Clean gravels (little or no fines)	Predominantly one size or a range of sizes with some intermediate sizes missing	Wide range in grain size and substantial amounts of all intermediate particle sizes				
Coarse-grained soils More than half of material is larger than 75 µm sieve size	Gravels with fines (appreciable amount of fines)	Nonplastic fines (for identification procedures see <i>ML</i> below)	Predominantly one size or a range of sizes with some intermediate sizes missing	<i>GP</i>	Poorly 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	$C_u = \frac{D_{60}}{D_{10}}$ Greater than 4 $C_c = \frac{D_{30}^2}{D_{10} \times D_{60}}$ Between 1 and 3
	Gravels with fines (appreciable amount of fines)	Plastic fines (for identification procedures, see <i>CL</i> below)	Plastic fines (for identification procedures, see <i>CL</i> below)	<i>GC</i>	Clayey gravels, poorly graded gravel-sand-clay mixtures	For undisturbed soils add information on stratification, degree of compactness, cementation, and moisture characteristics	Not meeting all gradation requirements for <i>GP</i>
	Sands More than half of coarse fraction is smaller than 4 mm sieve size	Clean sands (little or no fines)	Predominantly one size or a range of sizes with some intermediate sizes missing	Wide range in grain sizes and substantial amounts of all intermediate particle sizes	<i>SW</i>	Well graded sands, gravelly sands, little or no fines	Atterberg limits below "A" line, or <i>PI</i> less than 4
	Sands with fines (appreciable amount of fines)	Nonplastic fines (for identification procedures, see <i>ML</i> below)	Plastic fines (for identification procedures, see <i>CL</i> below)	Predominantly one size or a range of sizes with some intermediate sizes missing	<i>SP</i>	Poorly graded sands, gravelly sands, little or no fines	Atterberg limits above "A" line, with <i>PI</i> greater than 7
Fine-grained soils More than half of material is smaller than 75 µm sieve size	Silt and clays Liquid limit less than 50	None to slight	None	<i>ML</i>	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands with slight plasticity	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	Atterberg limits below "A" line or <i>PI</i> less than 5
	Silt and clays Liquid limit less than 50	Medium to high	Medium	<i>CL</i>	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	For undisturbed soils add information on structure, stratification, consistency in undisturbed and remoulded states, moisture and drainage conditions	Atterberg limits below "A" line with <i>PI</i> greater than 7
	Silt and clays Liquid limit greater than 50	Slight to medium	Slight	<i>OL</i>	Organic silts and organic silty clays of low plasticity	Example: Clayey silt, brown; slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess; (<i>ML</i>)	
	Silt and clays Liquid limit greater than 50	Slight to medium	Slight to medium	<i>MH</i>	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts		
Highly Organic Soils	Readily identified by colour, odour, spongy feel and frequently by fibrous texture	None	High	<i>CH</i>	Inorganic clays of high plasticity, fat clays		
		None to very slow	Slight to medium	<i>OH</i>	Organic clays of medium to high plasticity		
				<i>PI</i>	Peat and other highly organic soils		

Determine percentages of gravel and sand from grain size curve		Use grain size curve in identifying the fractions as given under field identification	
Depending on percentage of fines (fraction smaller than 75 µm sieve size)	Less than 5% More than 5% to 12% More than 12%	Give typical name; indicate degree 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
Gravel	5% to 12%	Example: Clayey silt, brown; slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess; (<i>ML</i>)	
Sand	More than 12%		
Fine	Less than 5%		
Coarse	More than 5% to 12%		
Gravel	5% to 12%		
Sand	More than 12%		
Fine	Less than 5%		
Coarse	More than 5% to 12%		

Plasticity Index		Liquid limit	
Plasticity Index	Liquid limit	Plasticity Index	Liquid limit
0	0	0	0
10	10	10	10
20	20	20	20
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50	50	50	50
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Plasticity Index		Liquid limit	
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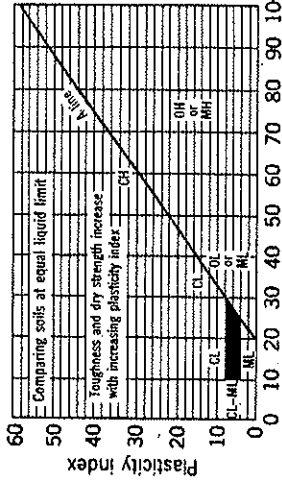
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Plasticity Index	Liquid limit	Plasticity Index	Liquid limit
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Plasticity Index		Liquid limit	
Plasticity Index	Liquid limit	Plasticity Index	Liquid limit
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90	90	9	



Plasticity chart
for laboratory classification of fine-grained soils

NOTE: 1) Soils possessing characteristics of two groups are designated by combinations of group symbols (e.g. 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.

Jeffery and Katauskas Pty Ltd

CONSULTING GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS
A.B.N. 17 003 550 801 A.C.N. 003 550 801



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.
Field Tests	N = 17 4, 7, 10	Standard Penetration Test (SPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration. 'R' as noted below.
	N _c = 5 7 3R	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.
	VNS = 25	Vane shear reading in kPa of Undrained Shear Strength.
	PID = 100	Photoionisation detector reading in ppm (Soil sample headspace test).
Moisture Condition (Cohesive Soils) (Cohesionless Soils)	MC > PL	Moisture content estimated to be greater than plastic limit.
	MC ≈ PL	Moisture content estimated to be approximately equal to plastic limit.
	MC < PL	Moisture content estimated to be less than plastic limit.
	D	DRY - runs freely through fingers.
	M	MOIST - does not run freely but no free water visible on soil surface.
	W	WET - free water visible on soil surface.
Strength (Consistency) Cohesive Soils	VS	VERY SOFT - Unconfined compressive strength less than 25kPa
	S	SOFT - Unconfined compressive strength 25-50kPa
	F	FIRM - Unconfined compressive strength 50-100kPa
	St	STIFF - Unconfined compressive strength 100-200kPa
	VSt	VERY STIFF - Unconfined compressive strength 200-400kPa
	H	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	Density Index (I _d) Range (%) SPT 'N' Value Range (Blows/300mm) Very Loose < 15 0-4
	L	Loose 15-35 4-10
	MD	Medium Dense 35-65 10-30
	D	Dense 65-85 30-50
	VD	Very Dense > 85 > 50
	()	Bracketed symbol indicates estimated density based on ease of drilling or other tests.
Hand Penetrometer Readings	300	Numbers indicate individual test results in kPa on representative undisturbed material unless noted otherwise.
	250	
Remarks	'V' bit	Hardened steel 'V' shaped bit.
	'TC' bit	Tungsten carbide wing bit.
	T ₆₀	Penetration of auger string in mm under static load of rig applied by drill head hydraulics without rotation of augers.

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LOG SYMBOLS

ROCK MATERIAL WEATHERING CLASSIFICATION

TERM	SYMBOL	DEFINITION
Residual Soil	RS	Soil developed on extremely weathered rock; the mass structure and substance fabric are no longer evident; there is a large change in volume but the soil has not been significantly transported.
Extremely weathered rock	XW	Rock is weathered to such an extent that it has "soil" properties, ie it either disintegrates or can be remoulded, in water.
Distinctly weathered rock	DW	Rock strength usually changed by weathering. The rock may be highly discoloured, usually by ironstaining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores.
Slightly weathered rock	SW	Rock is slightly discoloured but shows little or no change of strength from fresh rock.
Fresh rock	FR	Rock shows no sign of decomposition or staining.

ROCK STRENGTH

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

TERM	SYMBOL	I_s (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 150mm 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 150mm long x 50mm dia. can be broken by hand with difficulty. Readily scored with knife.
High:	H	3	A piece of core 150mm 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 150mm 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 150mm long x 50mm dia. is very difficult to break with hand-held hammer. Rings when struck with a hammer.

ABBREVIATIONS USED IN DEFECT DESCRIPTION

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

APPENDIX B



Envirolab Services Pty Ltd

ABN 37 112 535 645

54 Frenchs Rd Willoughby NSW 2068

ph 02 9958 5801 fax 02 9958 5803

email: tnotaras@envirolabservices.com.au

CERTIFICATE OF ANALYSIS 10350

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Todd Hore

Sample log in details:

Your Reference:

E21073F, Darling Harbour

No. of samples:

32 Soils

Date samples received:

27/03/07

Date completed instructions received:

27/03/07

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:

3/04/07

Date of Preliminary Report:

Not issued

Issue Date:

4/04/07

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

This document is issued in accordance with NATA's accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:

Tania Notaras
Manager

David Springer
Business Development & Quality Manager

Envirolab Reference: 10350

Revision No: R 00



Page 1 of 27

vTPH & BTEX in Soil	UNITS	10350-1	10350-4	10350-8	10350-10	10350-12
Our Reference:	-----	BH1	BH1	BH2	BH2	BH3
Your Reference	-----					
Depth		0.1-0.3	3-3.45	0.5-0.95	3-3.45	0.1-0.4
Date Sampled		23/03/07	23/03/07	23/03/07	23/03/07	23/03/07
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m + p-Xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	88	79	86	82	93

vTPH & BTEX in Soil	UNITS	10350-14	10350-15	10350-16	10350-17	10350-19
Our Reference:	-----	BH3	BH4	BH4	BH5	BH5
Your Reference	-----					
Depth		1.1-1.4	0.1-0.5	0.5-0.65	0.1-0.4	1.6-1.85
Date Sampled		23/03/07	23/03/07	23/03/07	24/03/07	24/03/07
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m + p-Xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	94	88	98	91	79

vTPH & BTEX in Soil	UNITS	10350-22	10350-24	10350-25	10350-26	10350-27
Our Reference:	-----	BH7	BH7	Dup3	Dup5	FB
Your Reference	-----					
Depth		0.1-0.4	1.5-1.95	-	-	-
Date Sampled		24/03/07	24/03/07	23/03/07	26/03/07	23/03/07
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	30/03/2007	30/03/2007	31/03/2007	31/03/2007	31/03/2007
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m + p-Xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	78	96	97	102	82

sTPH in Soil (C10-C36)	UNITS	10350-1	10350-4	10350-8	10350-10	10350-12
Our Reference:	-----	BH1	BH1	BH2	BH2	BH3
Your Reference	-----	0.1-0.3	3-3.45	0.5-0.95	3-3.45	0.1-0.4
Depth		23/03/07	23/03/07	23/03/07	23/03/07	23/03/07
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	--	29/03/2007	29/03/2007	29/03/2007	29/03/2007	29/03/2007
Date analysed	--	31/03/2007	31/03/2007	31/03/2007	31/03/2007	31/03/2007
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	84	76	75	76	75

sTPH in Soil (C10-C36)	UNITS	10350-14	10350-15	10350-16	10350-17	10350-19
Our Reference:	-----	BH3	BH4	BH4	BH5	BH5
Your Reference	-----	1.1-1.4	0.1-0.5	0.5-0.65	0.1-0.4	1.6-1.85
Depth		23/03/07	23/03/07	23/03/07	24/03/07	24/03/07
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	--	29/03/2007	29/03/2007	29/03/2007	29/03/2007	29/03/2007
Date analysed	--	31/03/2007	31/03/2007	31/03/2007	31/03/2007	31/03/2007
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	210	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	91	80	79	83	87

sTPH in Soil (C10-C36)	UNITS	10350-22	10350-24	10350-25	10350-26	10350-27
Our Reference:	-----	BH7	BH7	Dup3	Dup5	FB
Your Reference	-----	0.1-0.4	1.5-1.95	-	-	-
Depth		24/03/07	24/03/07	23/03/07	26/03/07	23/03/07
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	--	29/03/2007	29/03/2007	29/03/2007	29/03/2007	29/03/2007
Date analysed	--	31/03/2007	31/03/2007	31/03/2007	31/03/2007	31/03/2007
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	80	81	76	76	75

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	10350-1 BH1 0.1-0.3 23/03/07 Soil	10350-4 BH1 3-3.45 23/03/07 Soil	10350-8 BH2 0.5-0.95 23/03/07 Soil	10350-10 BH2 3-3.45 23/03/07 Soil	10350-12 BH3 0.1-0.4 23/03/07 Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
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	0.4	0.5	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.9	0.5	<0.1	<0.1	<0.1
Pyrene	mg/kg	1.0	0.3	<0.1	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.5	0.2	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.6	0.2	<0.1	<0.1	<0.1
Benzo(b,k)fluoranthene	mg/kg	0.7	0.3	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.5	0.1	<0.05	0.06	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	89	89	88	87	87

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	10350-14 BH3 1.1-1.4 23/03/07 Soil	10350-15 BH4 0.1-0.5 23/03/07 Soil	10350-16 BH4 0.5-0.65 23/03/07 Soil	10350-17 BH5 0.1-0.4 24/03/07 Soil	10350-19 BH5 1.6-1.85 24/03/07 Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Naphthalene	mg/kg	0.7	<0.1	<0.1	<0.1	0.1
Acenaphthylene	mg/kg	1.9	<0.1	<0.1	<0.1	0.2
Acenaphthene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	1.0	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	14	0.5	<0.1	0.2	1.2
Anthracene	mg/kg	2.8	<0.1	<0.1	<0.1	0.3
Fluoranthene	mg/kg	16	1.0	<0.1	0.6	2.4
Pyrene	mg/kg	14	0.9	<0.1	0.6	2.4
Benzo(a)anthracene	mg/kg	7.0	0.4	<0.1	0.3	1.2
Chrysene	mg/kg	6.2	0.4	<0.1	0.3	1.2
Benzo(b,k)fluoranthene	mg/kg	8.9	0.7	<0.2	0.5	1.9
Benzo(a)pyrene	mg/kg	5.6	0.4	<0.05	0.3	1.3
Indeno(1,2,3-c,d)pyrene	mg/kg	2.8	0.3	<0.1	0.1	0.7
Dibenzo(a,h)anthracene	mg/kg	0.7	<0.1	<0.1	<0.1	0.1
Benzo(g,h,i)perylene	mg/kg	2.4	0.2	<0.1	0.1	0.7
Surrogate p-Terphenyl-d ₁₄	%	89	89	89	88	86

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	10350-22 BH7 0.1-0.4 24/03/07 Soil	10350-24 BH7 1.5-1.95 24/03/07 Soil	10350-25 Dup3 - 23/03/07 Soil	10350-26 Dup5 - 26/03/07 Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.1	<0.1	0.2
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.2	<0.1	0.5
Pyrene	mg/kg	<0.1	0.2	<0.1	0.5
Benzo(a)anthracene	mg/kg	<0.1	0.1	<0.1	0.3
Chrysene	mg/kg	<0.1	0.1	<0.1	0.3
Benzo(b,k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	0.4
Benzo(a)pyrene	mg/kg	<0.05	0.1	<0.05	0.3
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	0.1
Surrogate p-Terphenyl-d ₁₄	%	88	89	89	89

Organochlorine Pesticides in soil						
Our Reference:	UNITS	10350-1	10350-4	10350-8	10350-10	10350-12
Your Reference	-----	BH1	BH1	BH2	BH2	BH3
Depth	-----	0.1-0.3	3-3.45	0.5-0.95	3-3.45	0.1-0.4
Date Sampled		23/03/07	23/03/07	23/03/07	23/03/07	23/03/07
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	31/03/2007	31/03/2007	31/03/2007	31/03/2007	31/03/2007
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	98	96	99	102	101

Organochlorine Pesticides in soil	UNITS	10350-14	10350-15	10350-16	10350-17	10350-19
Our Reference:	-----	BH3	BH4	BH4	BH5	BH5
Your Reference	-----	1.1-1.4	0.1-0.5	0.5-0.65	0.1-0.4	1.6-1.85
Depth		23/03/07	23/03/07	23/03/07	24/03/07	24/03/07
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	31/03/2007	31/03/2007	31/03/2007	31/03/2007	31/03/2007
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	0.7	<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	0.4	<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	0.2	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	102	100	101	99

Organochlorine Pesticides in soil					
Our Reference:	UNITS	10350-22	10350-24	10350-25	10350-26
Your Reference	-----	BH7	BH7	Dup3	Dup5
Depth	-----	0.1-0.4	1.5-1.95	-	-
Date Sampled		24/03/07	24/03/07	23/03/07	26/03/07
Type of sample		Soil	Soil	Soil	Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	31/03/2007	31/03/2007	31/03/2007	31/03/2007
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	100	99	100

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	10350-1 BH1 0.1-0.3 23/03/07 Soil	10350-4 BH1 3-3.45 23/03/07 Soil	10350-8 BH2 0.5-0.95 23/03/07 Soil	10350-10 BH2 3-3.45 23/03/07 Soil	10350-12 BH3 0.1-0.4 23/03/07 Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	31/03/2007	31/03/2007	31/03/2007	31/03/2007	31/03/2007
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	98	96	99	102	101

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	10350-14 BH3 1.1-1.4 23/03/07 Soil	10350-15 BH4 0.1-0.5 23/03/07 Soil	10350-16 BH4 0.5-0.65 23/03/07 Soil	10350-17 BH5 0.1-0.4 24/03/07 Soil	10350-19 BH5 1.6-1.85 24/03/07 Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	31/03/2007	31/03/2007	31/03/2007	31/03/2007	31/03/2007
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	102	100	101	99

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	10350-22 BH7 0.1-0.4 24/03/07 Soil	10350-24 BH7 1.5-1.95 24/03/07 Soil	10350-25 Dup3 - 23/03/07 Soil	10350-26 Dup5 - 26/03/07 Soil
Date extracted	--	30/03/2007	30/03/2007	30/03/2007	30/03/2007
Date analysed	--	31/03/2007	31/03/2007	31/03/2007	31/03/2007
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	100	99	100

Acid Extractable metals in soil						
Our Reference:	UNITS	10350-1	10350-4	10350-8	10350-10	10350-12
Your Reference	-----	BH1	BH1	BH2	BH2	BH3
Depth	-----	0.1-0.3	3-3.45	0.5-0.95	3-3.45	0.1-0.4
Date Sampled		23/03/07	23/03/07	23/03/07	23/03/07	23/03/07
Type of sample		Soil	Soil	Soil	Soil	Soil
Arsenic	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0
Cadmium	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	mg/kg	10	7.8	8.5	12	12
Copper	mg/kg	30	<1.0	6.1	27	1.3
Lead	mg/kg	14	4.5	17	78	12
Mercury	mg/kg	0.20	<0.10	0.23	0.55	<0.10
Nickel	mg/kg	33	<1.0	1.1	9.2	3.0
Zinc	mg/kg	39	7.8	9.2	120	22

Acid Extractable metals in soil						
Our Reference:	UNITS	10350-14	10350-15	10350-16	10350-17	10350-19
Your Reference	-----	BH3	BH4	BH4	BH5	BH5
Depth	-----	1.1-1.4	0.1-0.5	0.5-0.65	0.1-0.4	1.6-1.85
Date Sampled		23/03/07	23/03/07	23/03/07	24/03/07	24/03/07
Type of sample		Soil	Soil	Soil	Soil	Soil
Arsenic	mg/kg	4.2	4.5	4.7	<4.0	9.5
Cadmium	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	mg/kg	16	22	8.3	27	12
Copper	mg/kg	47	23	6.3	21	70
Lead	mg/kg	53	47	6.9	25	98
Mercury	mg/kg	0.11	<0.10	<0.10	<0.10	0.44
Nickel	mg/kg	14	9.4	4.8	28	15
Zinc	mg/kg	59	40	14	65	120

Acid Extractable metals in soil					
Our Reference:	UNITS	10350-22	10350-24	10350-25	10350-26
Your Reference	-----	BH7	BH7	Dup3	Dup5
Depth	-----	0.1-0.4	1.5-1.95	-	-
Date Sampled		24/03/07	24/03/07	23/03/07	26/03/07
Type of sample		Soil	Soil	Soil	Soil
Arsenic	mg/kg	<4.0	4.6	<4.0	4.6
Cadmium	mg/kg	<1.0	<1.0	<1.0	<1.0
Chromium	mg/kg	15	7.6	11	34
Copper	mg/kg	48	22	1.2	24
Lead	mg/kg	10	47	13	31
Mercury	mg/kg	<0.10	<0.10	<0.10	<0.10
Nickel	mg/kg	86	11	2.6	32
Zinc	mg/kg	45	95	23	71