

14 November 2003

Mr. George Rolfe
Site 3 Development Company Pty Ltd
Level 37, 2 Chifley Square
Sydney NSW 2000

RE: ACID SULFATE SOIL ASSESSMENT, SOPA SITE 3, HOMEBUSH

1 INTRODUCTION

HLA Envirosiences Pty Limited (HLA) were engaged by Site 3 Development Company Pty Ltd to conduct an assessment for the presence of acid sulfate soils (ASS) at the property defined as Site 3, Australia Avenue, Sydney Olympic Park, Homebush Bay, NSW (the Site). The Site location is depicted on Figure 1.

HLA understands that the Site, currently vacant, will be developed for future Residential Retail land use. The ASS assessment was therefore conducted to evaluate whether subsurface soil conditions would require specific management measures during the development process.

2 BACKGROUND INFORMATION

2.1 Acid Sulfate Soils

Acid sulfate soils are the common name given to sediments and soils containing iron sulfide which, when exposed to oxygen (and water) generate sulfuric acid. Formation conditions require the presence of iron-rich sediments, sulfate (usually from seawater), removal of reaction products such as bicarbonate, the presence of sulfate reducing bacteria and a plentiful supply of organic matter. The relatively specific conditions under which the acid sulfate soils are formed usually limit their occurrence to low lying parts of coastal floodplains, rivers and creek (Stone, Y. et. al, 1998).

2.2 Expected Site Geology

Reference to the *Sydney 1:100 000 Geological Series Sheet 9130* (DMR, 1983) indicates that the Site is expected to be underlain by man made fill overlying Triassic Aged Ashfield Shales of the Wianamatta Group. Ashfield Shales typically comprise black to dark grey shale and laminite.

The *Sydney 1:100 000 Soil Landscape Series Sheet 9130* (Soil Conservation Service NSW) maps the Site as being located on soils of the Blacktown Soil Landscape Group. These soils are associated with the in-situ weathering of shale bedrock and are typified as low permeability clays.

S4013901_RPT_14NOV03

The *Prospect/Parramatta River Acid Sulfate Soil Risk Map* (DIPNR, December 1997, Edition 2) maps the Site as being located in an area of disturbed terrain, with unknown occurrence of Acid Sulfate Soils, although soil investigations are required to assess these areas for acid sulfate potential.

2.3 Previous Environmental Investigation

HLA completed a Site Contamination Assessment (SCA) of the subject Site in July 2002 (refer HLA 2002). The SCA involved the completion of 23 soil boreholes across the Site (refer Figure 2). With respect to the context of this ASS assessment, pertinent information is summarised below.

Generally the soil strata comprised fill material overlying stiff silty clay grading to weathered shale and shale (bedrock). The fill predominantly comprised reworked clay, sand, silt and gravel. The natural soil profile consisted predominantly stiff red/brown or red/grey, low to medium plasticity clay grading to shale bedrock.

3 SCOPE OF WORK

Works completed by HLA were in accordance with our proposal dated 21 October 2003 and ASSMAC 1998 Guidelines and included:

- Completion of 4 hand auger soil borings and logging of encountered soil conditions (refer Figure 2);
- Collection of soil samples from each borehole;
- Submission of soil samples to a National Association of Testing Authorities (NATA) registered laboratory for analysis. Soil samples were tested for:
 - Peroxide Oxidation Combined Acidity & Sulfate (POCAS – ASSMAC Method 21);
 - Total Oxidisable Sulfur (TOS – ASSMAC Method 20); and
 - Soil pH.
- Provision of this report.

4 RESULTS OF INVESTIGATION

4.1 Soil Conditions

Soil conditions encountered during the completion of the hand augering program consisted of fill material overlying stiff clay. Fill material predominantly comprised reworked clay, silty sand and gravel. The natural soil profile consisted of predominantly stiff red/brown and red/grey/white clays and silty clays (refer borelogs, Attachment A). These conditions are consistent with the results of HLA's previous investigation.

4.2 Soil Results

Results of analytical testing (refer Table 1 and Attachment B) indicate that acid sulfate soil conditions were not identified. All significant results were not detected above laboratory practical quantitation limits and are therefore below *NSW Acid Sulfate Soil Management Advisory*



Committee (1998) Guidelines. Soil pH levels were in the normal range and were not significantly lowered by the oxidation process.

5 CONCLUSION

Based on the results of the ASS assessment undertaken, HLA concludes that specific ASS management measures would not be required for the proposed redevelopment.

Yours faithfully,

HLA-Envirosciences Pty Limited

Iain Macfarlane
Environmental Scientist

Alex Latham
Senior Environmental Scientist

Attachments: Site Location Map
 Site Map
 Table 1 – Soil Analytical Results (POCAS, pH & TOS)
 Borelogs
 ALS Laboratory Report

This document was prepared for the sole use of Site 3 Development Company Pty Ltd and the regulatory agencies that are directly involved in this project, the only intended beneficiaries of our work. No other party should rely on the information contained herein without the prior written consent of HLA-Envirosciences Pty Limited and Site 3 Development Company Pty Ltd.



6 REFERENCES

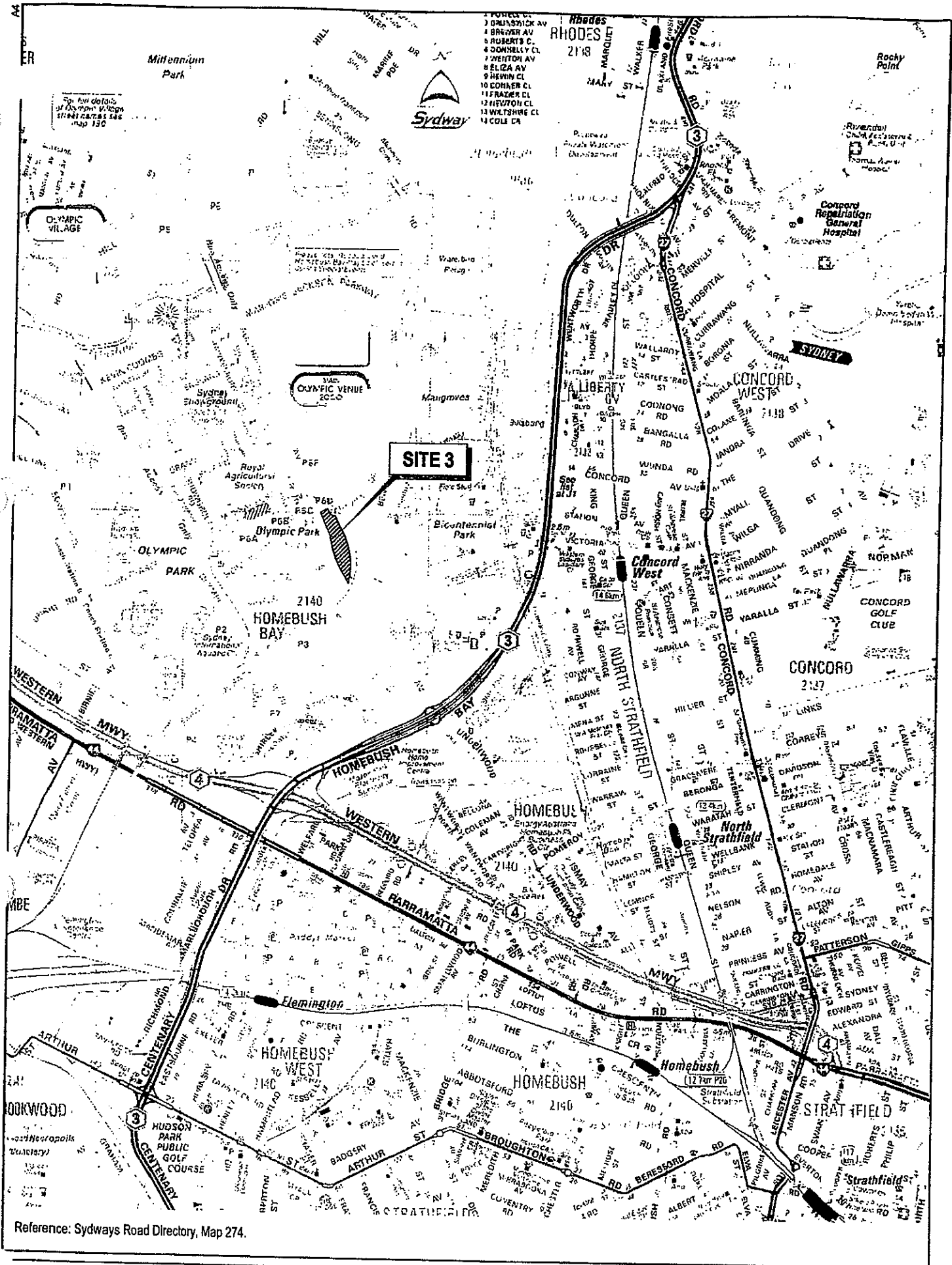
Department of Land and Water Conservation (1997) *Parramatta River Acid Sulfate Soil Risk Map – Edition Two*

HLA Envirosiences Pty Limited (2002). *Site Contamination Investigation, Site 3, Sydney Olympic Park Town Centre, Homebush, NSW*. Report Site 3\J1938.rpt.doc, 9 July 2002.

NSW Department of Mineral resources (1983) *Geological Series Sheet 9130 (Edition 1)*

Soil Conservation Service of NSW (1983) *Soil Landscape Series Sheet 9130*

Stone Y, Ahern C R and Blunden B (1998). *Acid Sulfate Soil Manual*. NSW Acid Sulfate Soil Management Advisory Committee (ASSMAC), Wollongbar, NSW, Australia (1998).



HLA

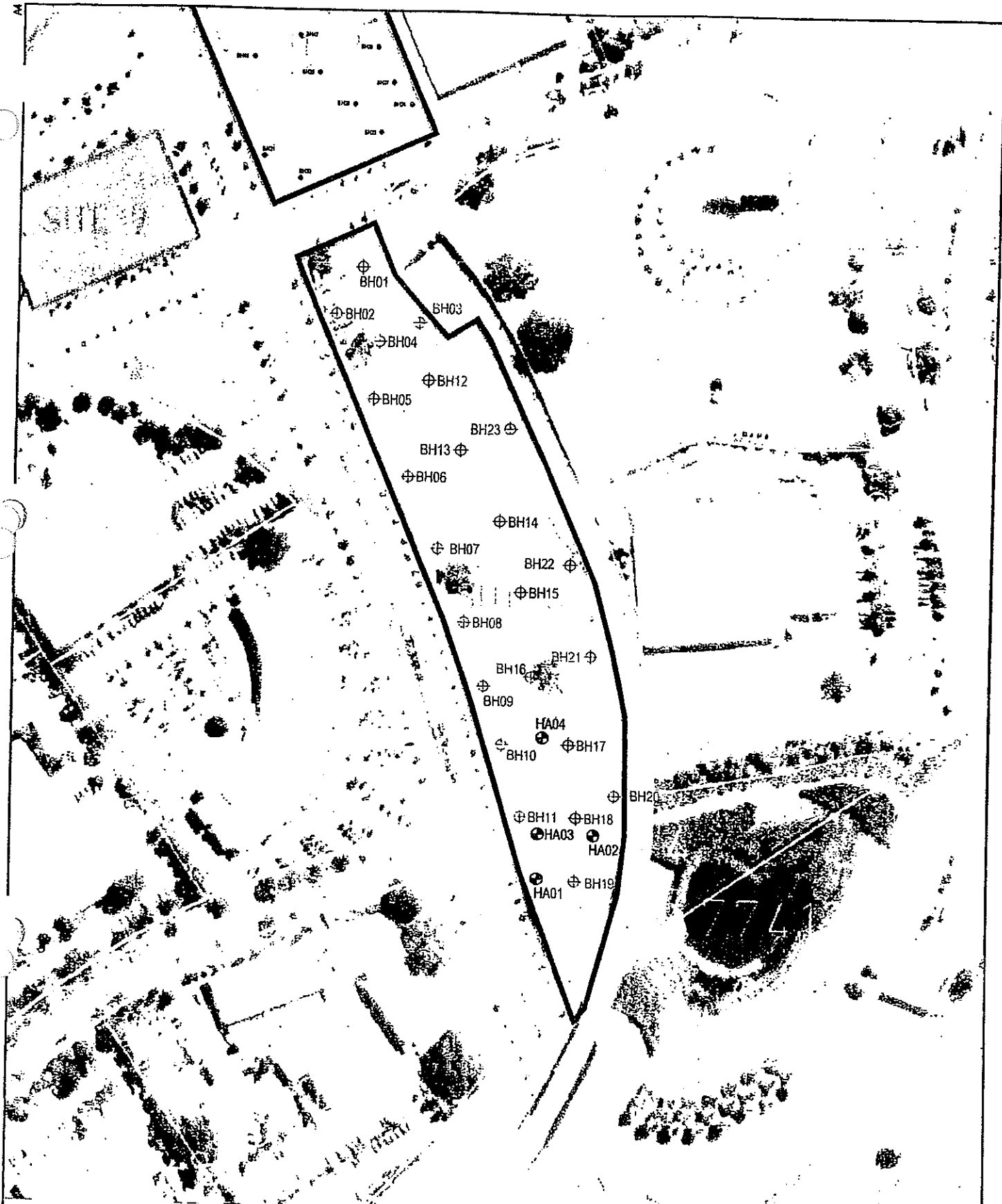
SITE LOCATION MAP

Site 3 Development Company Pty Ltd
Acid Sulfate Soil Assessment - SOPA Site 3
Homebush Bay, New South Wales

FIGURE

1





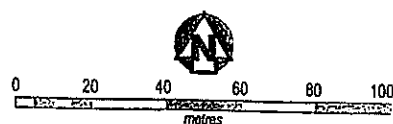
LEGEND

- ⊕ BH01 BOREHOLE SAMPLE LOCATION (HLA 2002)
- ⊙ HA01 HAND AUGER SAMPLE LOCATION (HLA 2003)

Source: Plan supplied by Sydney Olympic Park Authority.



SITE LAYOUT AND SAMPLING LOCATION PLAN
Site 3 Development Company Pty Ltd
 Acid Sulfate Soil Assessment - SOPA Site 3
 Homebush Bay, New South Wales



FIGURE

2

○

○

○

○

Table 1 - Soil Sample Analytical Results (Ass)

Sample ID Depth (mbgs) Material Type Date Sampled	ASSMAC (1998) Guidelines						HA01 1.0-1.1 Clay 24/10/03	HA02 0.4-0.5 Clay 24/10/03	HA03 1.0-1.1 Clay 24/10/03	HA04 1.3-1.4 Clay 24/10/03
	Action Criteria 1-1000 tonnes disturbed		Action Criteria if more than 1000 tonnes disturbed							
	Sulfur Trail	Acid Trail	Sulfur Trail	Acid Trail						
	% S oxidisable	mol H ⁺ /tonne	% S oxidisable	mol H ⁺ /tonne						
S (Pos)	0.10	-	0.03	-	-	-	<0.02	<0.02	<0.02	<0.02
TPA	-	62	-	18	18	18	<2	<2	<2	<2
TSA	-	62	-	18	18	18	<2	<2	<2	<2
pH before Oxidation	-	-	-	-	-	-	7.2	6.4	6	6.6
pH after Oxidation	-	-	-	-	-	-	6.8	6.2	4.5	7.3

Notes:

(mbgs) = metres below ground surface

- = no guideline value

< = not detected above laboratory

practical quantitation limit (PQL)

Criteria based on Fine Texture, approximate clay content $\geq 40\%$, where, % < 0.002mm

Data Entry: IM

Data Review: AL

HLA

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HLA - Envirosciences
55-65 Grandview Street
Pymble, NSW 2073
Telephone: 02 9988 4422
Fax: 02 9988 4441

HAND AUGER LOG**HA01**

PROJECT NUMBER S4013901
PROJECT NAME Site 3 - Multiplex
LOCATION SOPA site 3, Sydney Olympic Park
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab
LOGGED BY J. Macfarlane
STABILISED WATER LEVEL _____
GROUND WATER ELEVATION _____
COMMENTS Grass/Gravel surface

DATE 24/10/2003

SURFACE ELEVATION _____

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
			HA01_ 0.0-0.1				Silty SAND, Topsoil (FILL) medium dense to dense, dry, brown, minor organics and gravel	0.05
					0.2			
					0.4			
			HA01_ 0.4-0.5		0.6		Silty sandy CLAY (FILL), firm to stiff, slightly moist, medium plasticity, brown/grey with some reds and oranges, minor gravel and rubble	
					0.8			
					1.0			1.00
			HA01_ 1.0-1.1	*	1.2		Sandy CLAY (CLS), firm to stiff, slightly moist, medium plasticity, dark brown/brown, very minor ash	
							Hand Auger refusal on rock Total Depth: 1.20 m	1.20

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HAND AUGER LOG

HA02

PROJECT NUMBER S4013901DATE 24/10/2003PROJECT NAME Site 3 - Multiplex

SURFACE ELEVATION _____

LOCATION SOPA site 3, Sydney Olympic ParkDRILLING METHOD Hand AugerSAMPLING METHOD GrabLOGGED BY I. Macfarlane

STABILISED WATER LEVEL _____

GROUND WATER ELEVATION _____

COMMENTS Grass/Gravel surface

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
			HA02_0.0-0.1				Silty sandy CLAY (FILL), firm to very stiff, dry, low plasticity, dark brown/brown, minor gravel, rocks, shale and sandstone	
			HA02_0.4-0.5	*	0.2 0.4 0.6 0.8			
							Hand Auger refusal on hard clay Total Depth: 0.90 m	0.90

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HAND AUGER LOG**HA03**PROJECT NUMBER S4013901DATE 24/10/2003PROJECT NAME Site 3 - Multiplex

SURFACE ELEVATION _____

LOCATION SOPA site 3, Sydney Olympic ParkDRILLING METHOD Hand AugerSAMPLING METHOD GrabLOGGED BY I. Macfarlane

STABILISED WATER LEVEL _____

GROUND WATER ELEVATION _____

COMMENTS Grass/Gravel surface

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
			HA03_0.0-0.1		0.0		Silty sandy CLAY (FILL), dry to slightly moist, low to medium plasticity, brown with some oranges and reds, minor gravel and rocks	
					0.2			
			HA03_0.4-0.5		0.4		Silty CLAY (FILL), firm, slightly moist, medium plasticity, brown/orange/grey/white	0.40
					0.6			
					0.8			0.80
			HA03_1.0-1.1	*	1.0		CLAY (CL), firm, slightly moist, medium plasticity, grey/white with orange and red streaks, very minor shale	
					1.2			
							Total Depth: 1.30 m	1.30

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Pymble, NSW 2073
Telephone: 02 9988 4422
Fax: 02 9988 4441

HAND AUGER LOG**HA04**PROJECT NUMBER S4013901DATE 24/10/2003PROJECT NAME Site 3 - Multiplex

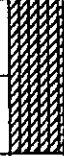
SURFACE ELEVATION _____

LOCATION SOPA site 3, Sydney Olympic ParkDRILLING METHOD Hand AugerSAMPLING METHOD GrabLOGGED BY I. Macfarlane

STABILISED WATER LEVEL _____

GROUND WATER ELEVATION _____

COMMENTS Grass/Gravel surface

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE NUMBER	ANALYSED	DEPTH (m BGL)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
			HA04_ 0.0-0.1				Silty sandy CLAY (FILL), firm, dry, low plasticity, brown, minor shale, rocks and gravel	
					0.2			
								0.35
			HA04_ 0.4-0.5		0.4		Silty sandy CLAY (FILL), firm, slightly moist, low to medium plasticity, light brown/orange/red, minor rocks and shale	
					0.6			
					0.8			
					1.0			1.00
			HA04_ 1.0-1.1				CLAY (CL) stiff, slightly moist, medium plasticity, white/grey/red/orange	
					1.2			1.20
							Silty CLAY (CL-ML), firm, slightly moist to moist, low to medium plasticity, dark brown with some light brown streaks	1.30
			HA04_ 1.3-1.4		1.4		Hand Auger refusal on crumbly clay	
								1.50
							Hand Auger refusal on very hard surface Total Depth: 1.50 m	

ALS Environmental

13 NOV 2003



CERTIFICATE OF ANALYSIS

CONTACT: MR IAIN MACFARLANE
CLIENT: HLA-ENVIROSCIENCES PTY LTD
ADDRESS:
P O BOX 726
PYMBLE NSW 2073
ORDER No.: 126323
PROJECT: S4013901

BATCH: ES43079
SUB BATCH: 0
LABORATORY: SYDNEY
DATE RECEIVED: 27/10/2003
DATE COMPLETED: 11/11/2003
SAMPLE TYPE: SOIL
No. of SAMPLES: 4

COMMENTS

pH determined and reported on 1:5 soil/water extract. This report
supersedes any previous preliminary reports of the same batch number.

NOTES

This is the Final Report and supersedes any preliminary reports with this batch number.
All pages of this report have been checked and approved for release.

ISSUING LABORATORY: SYDNEY

Address
277-289 Woodpark Road
SMITHFIELD NSW 2164

Phone: 61-2-8784 8555
Fax: 61-2-8784 8500
Email: cindy.suen@alsenviro.com

Signatory

LABORATORIES

AUSTRALASIA

Brisbane
Melbourne
Sydney
Newcastle
Auckland

Hong Kong
Singapore
Kuala Lumpur
Bogor
Mumbai

AMERICAS

Vancouver
Santiago
Antofagasta
Lima



NATA Accredited Laboratory Number 825

Site: SYDNEY

This Laboratory is accredited by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

Batch: ES43079
 Sub Batch: 0
 Date of Issue: 11/11/2003
 Client: HLA-ENVIROSCIENCES PTY LTD
 Client Reference: S4013901



CERTIFICATE OF ANALYSIS



Laboratory I.D.		SAMPLE IDENTIFICATION			
		1	2	3	4
METHOD	ANALYSIS DESCRIPTION	24/10/2003	24/10/2003	24/10/2003	24/10/2003
		HA01_	HA02_	HA03_	HA04_
EA-002	pH Value	1.0-1.1	0.4-0.5	1.0-1.1	1.3-1.4
EA-055	Moisture Content (dried @ 103°C)	7.2	6.4	6.0	6.6
		0.1	14.8	15.6	12.5
		0.1			



CERTIFICATE OF ANALYSIS

CONTACT: MR IAIN MACFARLANE
CLIENT: HLA-ENVIROSCIENCES PTY LTD
ADDRESS:
P O BOX 726
PYMBLE NSW 2073
ORDER No.: 126323
PROJECT: S4013901

BATCH: ES43079
SUB BATCH: 1
LABORATORY: SYDNEY
DATE RECEIVED: 27/10/2003
DATE COMPLETED: 11/11/2003
SAMPLE TYPE: SOIL
No. of SAMPLES: 4

COMMENTS

Results apply to sample(s) as submitted. POCAS as per method of Ahern et al (1998). Results expressed as mole H⁺/tonne. TOS as per Ahern et al (1998). Analysis conducted by ALS Brisbane, NATA Site No. 818. This report supersedes any previous preliminary reports of the same batch number.

NOTES

This is the Final Report and supersedes any preliminary reports with this batch number. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: SYDNEY

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Signatory

LABORATORIES

AUSTRALASIA

Brisbane
Melbourne
Sydney
Newcastle
Auckland

Hong Kong
Singapore
Kuala Lumpur
Bogor
Mumbai

AMERICAS

Vancouver
Santiago
Antofagasta
Lima



NATA Accredited Laboratory Number 825

Site: SYDNEY

This Laboratory is accredited by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

Batch: ES43079
 Sub Batch: 1
 Date of Issue: 11/11/2003
 Client: HLA-ENVIROSCIENCES PTY LTD
 Client Reference: S4013901



CERTIFICATE OF ANALYSIS



			SAMPLE IDENTIFICATION								
			Laboratory I.D.		1	2	3	4			
			Date Sampled		24/10/2003	24/10/2003	24/10/2003	24/10/2003			
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	HA01_	HA02_	HA03_	HA04_				
EA-002	pH after Oxidation		0.1	6.8	6.2	4.5	7.3				
EA-022	Ca (Acid Reacted)	%	0.02	<0.02	<0.02	<0.02	<0.02				
EA-022	Ca (KCl)	%	0.02	0.18	0.22	0.06	0.23				
EA-022	Ca (Peroxide)	%	0.02	0.12	0.17	0.04	0.13				
EA-022	Mg (Acid Reacted)	%	0.02	<0.02	<0.02	<0.02	<0.02				
EA-022	Mg (KCl)	%	0.02	0.03	0.04	0.07	0.03				
EA-022	Mg (Peroxide)	%	0.02	0.03	0.03	0.05	0.02				
EA-022	Na (Acid Reacted)	%	0.02	<0.02	<0.02	<0.02	<0.02				
EA-022	Na (KCl)	%	0.02	0.05	0.07	0.11	0.07				
EA-022	Na (Peroxide)	%	0.02	0.03	0.04	0.06	0.03				
EA-022	S (KCl)	%	0.02	<0.02	0.05	0.03	0.02				
EA-022	S (Peroxide)	%	0.02	<0.02	0.04	0.02	<0.02				
EA-022	S (Pos)	%	0.02	<0.02	<0.02	<0.02	<0.02				
EA-022	TAA	mole/tonne	2	<2	<2	<2	<2				
EA-022	TPA	mole/tonne	2	<2	<2	<2	<2				
EA-022	TSA	mole/tonne	2	<2	<2	<2	<2				
EA-022	pH (KCl)		0.1	7.7	6.8	5.2	7.8				
EA-023	S(HCL Extractable)	%	0.02	0.02	0.06	0.04	0.03				
EA-023	S(Total Oxidisable Sulfur)	%	0.02	<0.02	<0.02	0.02	0.02				
EA-023	S(Total)	%	0.01	0.03	0.07	0.06	0.05				

Batch: ES43079
 Sub Batch: 1
 Date of Issue: 11/11/2003
 Client: HLA-ENVIROSCIENCES PTY LTD
 Client Reference: S4013901

QUALITY CONTROL REPORT



METHOD			ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION													
				Laboratory I.D.		200											
				Date Sampled	27/10/2003												
				UNIT	LOR	METHOD	BLANK										
CHECKS AND SPIKES																	
EA-002			pH after Oxidation		0.1	---											
EA-022			Ca (Acid Reacted)	%	0.02	<0.02											
EA-022			Ca (KCl)	%	0.02	<0.02											
EA-022			Ca (Peroxide)	%	0.02	<0.02											
EA-022			Mg (Acid Reacted)	%	0.02	<0.02											
EA-022			Mg (KCl)	%	0.02	<0.02											
EA-022			Mg (Peroxide)	%	0.02	<0.02											
EA-022			Na (Acid Reacted)	%	0.02	<0.02											
EA-022			Na (KCl)	%	0.02	<0.02											
EA-022			Na (Peroxide)	%	0.02	<0.02											
EA-022			S (KCl)	%	0.02	<0.02											
EA-022			S (Peroxide)	%	0.02	<0.02											
EA-022			S (Pos)	%	0.02	<0.02											
EA-022			TAA	mole/tonne	2	<2											
EA-022			TPA	mole/tonne	2	<2											
EA-022			TSA	mole/tonne	2	<2											
EA-022			pH (KCl)		0.1	---											
EA-023			S(HCL Extractable)	%	0.02	<0.02											
EA-023			S(Total Oxidisable Sulfur)	%	0.02	<0.02											
EA-023			S(Total)	%	0.01	<0.01											

**SAMPLE RECEIPT ADVICE**

COMPANY: HLA-ENVIROSCIENCES PTY LTD
ATTENTION: MR IAIN MACFARLANE
DATE: Oct. 30, 2003
FROM: Zoran Dokanol, ENV SYDNEY

ALS has received samples pertaining to your reference: 126323

For future reference the batch number on this order is: ES43079

All samples and paper work were received in good order.
Samples have been received within recommended holding times.
Samples chilled when received.
Samples received in appropriately pretreated and preserved containers.
Please direct any turnaround/technical queries to Cindy Suen.
Any queries relating to sample condition/numbering/breakages should
be directed to Zoran Dokanol.
ANALYTICAL WORK FOR THIS BATCH WILL BE CONDUCTED AT ALS BRISBANE
ANALYTICAL WORK FOR THIS BATCH WILL BE CONDUCTED AT ALS SYDNEY
All aqueous samples are stored for two weeks and solid samples for
three months from the date of completion of the batch, unless specific
arrangements are made otherwise.

Purchase Order Number: 126323
Project Name: S4013901-MULTIPLEX, SOPA SITE 3

You can expect results to be reported as detailed below:

All Environmental Results Oct. 31, 2003

Analytical work for this batch has been subcontracted to;

OTHER: ALS BRISBANE(POCAS, TOS)

A L S - SERVICING YOUR NEEDS BETTER

AUSTRALIAN LABORATORY SERVICES P/L

ABN: 84 009 936 029

BRISBANE	SYDNEY	MELBOURNE	NEWCASTLE	AUCKLAND
Tel: 61-7-3243 7222	Tel: 61-2-8784 8555	Tel: 61-3-9538 4444	Tel: 61-2-4968 9433	Tel: 64-9-379 9437
Fax: 61-7-3243 7218	Fax: 61-2-8784 8500	Fax: 61-3-9538 4400	Fax: 61-2-4968 0349	Fax: 64-9-379 1449

Genes Pty Limited - Sydney

Midview Street

Box 726

Mobile NSW 2073 Australia

Tel: 61 2 9988 4422

Fax: 61 2 9988 4441

E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab. Name: *ALS*

Lab. Address: *SMITHFIELD*

Contact Name:

Lab. Ref:

Tel: 5754 5555

Fax: 5754 5500

Preliminary Report by: *3/10/03*

Final Report by: *3/11/03*

Lab Quote No:

Sampled By: *T. Davis* HLA Project No: *54013901* PO No: *176323*

Specifications:

1. Urgent TAT required? (please circle: 24hr 48hr _____ days)
2. Fast TAT Guarantee Required?
3. Is any sediment layer present in waters to be excluded from extractions?
4. % extraneous material removed from samples to be reported as per NEPM 5.1.17
5. Special storage requirements? (details: _____)
6. Shell Quality Partnership:

7. Report Format: • Fax • (Hardcopy) • (Email: *mail@syd.hla-enviro.com.au*)

Analysis Request

Lab. ID	Sample ID	Sampling Date	Matrix			Preservation			Container (No. & type)	Yes (tick)	BTEX + TPH	Metals*	PAHs	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAHs	Phenols	VHC	Speciated TPH	PCB/PAHs	TQS	PH	Other
			soil	water	other	filtered	acid	ice																					
41	DUP01	24/10/03	X						X																				
	DUP02																												

Batch No.: *8543077* ☐ ORG

Analysis date: *28/10/03*

☐ Soil ☐ Ambient ☐ Chilled ☐ 4°C

☐ Water ☐ Other ☐ Substances Work

☐ Bottle Return ☐ Imm. Anal. Acronet

Comments:

As Cd Cr Cu Ni Pb Zn Hg

* Metals Required (Other elements not required)

Relinquished by: *T. Davis* Signed: *T. Davis* Date: *27/10/03*

Relinquished by:

Signed:

Date: *27/10/03*

Date:

Received by: *G. Sutherland* Signed: *G. Sutherland* Date: *27/10/03*

Received by:

Signed:

Date: *27/10/03*

Date:

