




Client: Meriton Apartments Pty Ltd  
Project: ESA  
Location: Bonar Street Precinct, Arncliffe

Job Number:  
Contractor: *Ability Plus*  
Logged by: *PF*

Borehole diam.:	50mm	Borehole Depth:	3.0m
Commenced:	28/08/04	Completed:	28/08/04

Method	Water	Monitor Well	Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other)
SV				0					
					BH2 0.2	0.1		Concrete Surface	
								FILL: Sand and gravel mix, grey, red brown and cream sandstone and brick gravel pieces up to 2cm, dry.	
								CLAY: brown with some red mottling, moderate plasticity, firm to soft, damp.	
				1	BH2 1.0	0.2		SAND: grey, well sorted, medium to fine grained, damp with <10% clays.	
				2	BH2 2.0	0.4		SAND: Black organic, soft, loose, loamy with 10-20% silts and clays.	
				3	BH2 3.0	0.2		SAND: grey, saturated, medium coarse grained with <10% clay content.	
								Borehole ceased at 3.0m	
Method SV Solid Flight Auger with V-bit									

Client: Meriton Apartments Pty Ltd  
Project: ESA  
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Borehole diam.:	50mm	Borehole Depth:	3.0m
Commenced:	28/08/04	Completed:	28/08/04

Method	Water	Monitor	Well	Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other	
SV					0					Hydrocarbon odour QC1 duplicate sample obtained	
						BH3 0.2	2.2		Bitumen Surface		
									FILL: Sandy gravelly mix of brown and grey.	Hydrocarbon odour QC1 duplicate sample obtained	
						BH3 0.5	4		SAND: Dark grey organic with 10% silt and clay, loamy, soft, well sorted, dry		
					1	BH3 1.0	2		SAND: yellow brown, fine to medium grained, soft with 10-20% silts and clay, dry.		
					2	BH3 2.0	7.7		SANDY CLAY: Red and grey mottled, tight, firm to soft, (30% sand, 10% silt, 60% clay), damp.		
					3	BH3 3.0	5.9		As above with more grey mottling	Hydrocarbon odour	
									Borehole ceased at 3.0m		
	Method SV Solid Flight Auger with V-bit										

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Borehole diam.:	50mm	Borehole Depth:	3.0m
Commenced:	28/08/04	Completed:	28/08/04

Method	Water	Monitor	Well	Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION  Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS  (Field Rank, Odour, Visual Blow Count, Other)
SV					0					
									Garden Surface	
									FILL: Sandy gravelly mix of brown, grey and white sandstone speckles. Gravels up to 3cm.	
						BH4 0.5	1.2			
	1					BH4 1.0	0.2		As above	
					2	BH4 2.0	0.4		CLAYEY SAND: grey, wet, medium grained, well sorted with 20% clay content.	
					3	BH4 3.0	0.2		As above but saturated	
									Borehole ceased at 3.0m	
Method SV Solid Flight Auger with V-bit										

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Borehole diam.:	50mm	Borehole Depth:	3.0m
Commenced:	28/08/04	Completed:	28/08/04

Method	Water	Monitor Well Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other)	
SV			0						
							Concrete Surface		
							FILL: sand and gravel beneath concrete		
				BH5 0.5	0.2		SAND: Black organic, loamy, damp, with some gravel pieces from overlying fill.		
			1	BH5 1.0	0.2		SAND: dark grey, fine grained with <10% clays and 20% silt, soft, loose, moist.		
			2	BH5 2.0	0.3		CLAYEY SAND: dark grey, soft, wet, medium grained, well sorted with 30% clay, 20% silt and 50% sand.		
			3	BH5 3.0	0.2		As above but saturated		
							Borehole ceased at 3.0m		
	Method								
	SV Solid Flight Auger with V-bit								

Client: Meriton Apartments Pty Ltd  
Project: ESA  
Location: Bonar Street Precinct, Arncliffe

Job Number:  
Contractor: *Ability Plus*  
Logged by: *PF*

Borehole diam.:	50mm	Borehole Depth:	4.5m
Commenced:	28/08/04	Completed:	28/08/04

Method	Water	Monitor Well Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other)
SV		Cap	0				Grass Surface	<b>Water Sample MW1 obtained</b>
							FILL: Yellow brown, medium grained, well sorted sand.	
				BH6 0.5	0.6			
SV		Bentonite Seal						
			1	BH6 1.0	0.4		SAND: grey, moist, loose, medium grained, well sorted, with <10% silt and clay	
SV		Blank 0m to 1.5m						
			2	BH6 2.0	0.2		As above, lighter grey and wet	
SV		Slotted Screen 1.5m to 4.5m 2.5mm sand pack						
			3	BH6 3.0	0.2		CLAYEY SAND: dark grey, soft, medium grained, well sorted with 30% clay, 20% silt and 50% sand, saturated.	
SV		End Cap	4					
				BH6 4.0	0.2		As above	
							Borehole ceased at 4.5m	
Method SV Solid Flight Auger with V-bit								

Client: Meriton Apartments Pty Ltd Job Number: SJ259  
Project: Phase II Environmental Site Assessment Contractor: Ability Plus  
Location: Loftus and Bonar Streets Arncliffe Logged by: PF

Borehole diam.:	50mm	Borehole Depth:	2.0m
Commenced:	09/08/05	Completed:	09/08/05

Method	Water	Monitor Well	Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other)
SV				0					Method SV Solid Flight Auger with V-bit
								15cm Concrete surface.	
								Fill - mix of sand and sandstone pieces, grey, pinky brown and cream mottled.	
					BH7-0.5	0			
								Sand - grey brown, damp, soft, loose, fine to medium grains, well sorted quartz grains.	
				1					
								Water table at 1.8m.	
				2		0		As above - medium to coarse grains, wet.	
								Drilling terminated at 2.0m.	
				3					

## BOREHOLE LOG

BOREHOLE No.: BH8

Sheet 1 of 1

Client: Meriton Apartments Pty Ltd Job Number: SJ259  
Project: Phase II Environmental Site Assessment Contractor: Ability Plus  
Location: Loftus and Bonar Streets Arncliffe Logged by: PF

Borehole diam.: 50mm Borehole Depth: 2.0m  
Commenced: 10/08/05 Completed: 10/08/05

Method	Water	Monitor Well	Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other)
SV				0				15cm Concrete surface.	Method SV Solid Flight Auger with V-bit
								Fill - yellow clayey sand mixed with black sands and brown clays. Dry and loose.	
					BH8-0.5	0			
				1				Sand - grey brown, damp, soft, loose, fine to medium grains, well sorted quartz grains.	
								Water table at 1.8m.	
				2	BH8-2.0	0		Clayey Sand - medium grey, medium dense, moist, soft, medium to coarse grain size with 20% clay content.	
								Drilling terminated at 2.0m.	
				3					

## BOREHOLE LOG

BOREHOLE No.: BH9/MW2



Sheet 1 of 1

Client: Meriton Apartments Pty Ltd  
 Project: Phase II Environmental Site Assessment  
 Location: Loftus and Bonar Streets Arncliffe

Job Number: SJ259  
 Contractor: Ability Plus  
 Logged by: PF

Borehole diam.: 50mm  
 Commenced: 10/08/05

Borehole Depth: 3.0m  
 Completed: 10/08/05

Method	Water	Monitor Well	Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other)
SV		Cap Bentonite Seal, 0.2 to 0.5m  2.5mm sand pack, 0.5m to 3.0m  Slotted Screen 0 to 3.0m  End Cap		0	BH9-0.5	0		15cm Concrete surface.	Water Sample MW2 obtained
								Fill - sand, dark grey black, fine with some small gravels, loose and dry.	
				1	BH9-2.0	0		Sand - dark grey black, damp, soft, loose, fine to medium grains, well sorted quartz grains.	Method SV Solid Flight Auger with V-bit
								Water table at 1.8m.	
				2				Clayey Sand - medium grey, medium dense, moist, soft, medium to coarse grain size with 20% clay content. Saturated.	
				3				Well installed to 3.0m	


# BOREHOLE LOG

BOREHOLE No.: BH10

Sheet 1 of 1

Client: *Meriton Apartments Pty Ltd* Job Number: *SJ259*  
 Project: *Phase II Environmental Site Assessment* Contractor: *Ability Plus*  
 Location: *Loftus and Bonar Streets Arncliffe* Logged by: *PF*

Borehole diam.: 50mm Borehole Depth: 2.0m  
 Commenced: 10/08/05 Completed: 10/08/05

Method	Water	Monitor Well	Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other)
SV				0	BH10-0.5	0		15cm Concrete surface.	Method SV Solid Flight Auger with V-bit
								Fill - sand and sandstone gravels, dark brown/black speckled with light sandstone and sand fragments.	
				1				Sand - dark grey/black, damp, fine grained, soft, loose, dry, well sorted quartz grains.	
				2				Clay - light grey brown, soft moist.	
				3				Drilling terminated at 2.0m.	

## BOREHOLE LOG

BOREHOLE No.: BH11

Sheet 1 of 1

Client: Meriton Apartments Pty Ltd      Job Number: SJ259  
Project: Phase II Environmental Site Assessment      Contractor: Ability Plus  
Location: Loftus and Bonar Streets Arncliffe      Logged by: PF

Borehole diam.: 50mm      Borehole Depth: 2.0m  
Commenced: 10/08/05      Completed: 10/08/05

Method	Water	Monitor Well	Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other)
SV				0				15cm Concrete surface.	QC4 = Dup Soil Sample
					BH11-0.3	0		Fill - sand and sandstone gravels, dark brown/black speckled with light coloured sandstone and gravel fragments.	
				1		0		Clay - mottled brown and red brown, soft, moist with few gravel pieces.	
				2		0		Sand - grey brown, damp, fine to med grain size, soft, loose, well sorted.  Drilling terminated at 2.0m.	Method SV Solid Flight Auger with V-bit
				3					

## BOREHOLE LOG

BOREHOLE No.: BH12/MW3



Sheet 1 of 1

Client: Meriton Apartments Pty Ltd  
 Project: Phase II Environmental Site Assessment  
 Location: Loftus and Bonar Streets Arncliffe

Job Number: SJ259  
 Contractor: Ability Plus  
 Logged by: PF

Borehole diam.: 50mm  
 Commenced: 10/08/05

Borehole Depth: 3.0m  
 Completed: 10/08/05

Method	Water	Monitor Well	Details	Depth	Sample Type / ID	PID (ppm)	Graphic Log	GEOLOGICAL DESCRIPTION Material Type: USCS Group, Colour, Particle Size, Moisture Content, Consistency (Geologic Origin)	COMMENTS (Field Rank, Odour, Visual Blow Count, Other)	
SV		Cap Bentonite Seal, 0.2 to 0.5m		0	BH12-0.5	0			Water Sample MW3 obtained	
								15cm Concrete surface.		
								Fill - Yellow clayey sand mixed with black sands and brown clays.		
				2.5mm sand pack, 0.5m to 3.5m	1	BH12-2.0	0		Clay - mottled brown and red brown, soft, moist with few gravel pieces.	Method SV Solid Flight Auger with V-bit
				Blank Screen 0 to 0.5m						
Slotted Screen 0.5m to 3.0m	2			Sand - grey brown, wet, fine to med grain size, soft, loose, well sorted. Water table at 2.0m.						
		End Cap	3				As above.			
								Well installed to 3.0m		

**APPENDIX B**  
**LABORATORY METHODS AND CERTIFICATES – SOIL**



CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

Quarantine Approval premises criteria 5.1 for quarantine containment level 1 (QC1) facilities. Class five criteria cover premises utilised for research, analysis and/or testing of biological material, soil, animal, plant and human products.

## FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

**Laboratory Report No:** E023266  
**Client Name:** Urban Environmental  
**Client Reference:** Meriton Arncliffe  
**Contact Name:** Franco Fuccenecco  
**Chain of Custody No:** na  
**Sample Matrix:** SOIL

Cover Page 1 of 3  
plus Sample Results

**Date Received:** 12/08/2005  
**Date Reported:** 30/08/2005

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occurred within the agreed settlement period.

### QUALITY ASSURANCE CRITERIA

**Accuracy:** matrix spike: 1 in first 5-20, then 1 every 20 samples  
lcs, crm, method: 1 per analytical batch  
surrogate spike: addition per target organic method

**Precision:** laboratory duplicate: 1 in first 5-10, then 1 every 10 samples  
laboratory triplicate: re-extracted & reported when duplicate RPD values exceed acceptance criteria

**Holding Times:** soils, waters: Refer to LabMark Preservation & THT table  
VOC's 14 days water / soil  
VAC's 7 days water or 14 days acidified  
VAC's 14 days soil  
SVOC's 7 days water, 14 days soil  
Pesticides 7 days water, 14 days soil  
Metals 6 months general elements  
Mercury 28 days

**Confirmation:** target organic analysis: GC/MS, or confirmatory column

**Sensitivity:** EQL: Typically 2-5 x Method Detection Limit (MDL)

### QUALITY CONTROL

#### GLOBAL ACCEPTANCE CRITERIA (GAC)

**Accuracy:** spike, lcs, crm general analytes 70% - 130% recovery  
surrogate: phenol analytes 50% - 130% recovery  
organophosphorous pesticide analytes 60% - 130% recovery  
phenoxy acid herbicides 50% - 130% recovery

anion/cation bal: +/- 10% (0-3 meq/l),  
+/- 5% (>3 meq/l)

**Precision:** method blank: not detected >95% of the reported EQL  
duplicate lab 0-30% (>10xEQL), 0-75% (5-10xEQL)  
RPD (metals): 0-100% (<5xEQL)  
duplicate lab 0-50% (>10xEQL), 0-75% (5-10xEQL)  
RPD: 0-100% (<5xEQL)

### QUALITY CONTROL

#### ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

**Accuracy:** spike, lcs, crm analyte specific recovery data  
surrogate: <3xstd of historical mean

**Uncertainty:** spike, lcs: measurement calculated from historical analyte specific control charts

### RESULT ANNOTATION

DQO:	Data Quality Objective	s:	matrix spike recovery	p:	pending
DQI:	Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample
EQL:	Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material
na:	not applicable	r:	RPD relative % difference	mb:	method blank

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

LabMark PTY LTD ABN 27 079 798 397

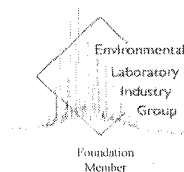
\* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077  
\* Telephone: (02) 9476 6533 \* Fax: (02) 9476 8219

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\* Telephone: (03) 9686 8344 \* Fax: (03) 9686 7344

Form QSO114, Rev. 0 Date Issued 10/03/05



CUSTOMER CENTRIC - ANALYTICAL CHEMISTS



Laboratory Report: E023266

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## NEPC GUIDELINE COMPLIANCE - DQO

### 1. GENERAL

- A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.
- B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.
- C. Laboratory QA/QC samples are specific to this project.
- D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at [www.nata.asn.au](http://www.nata.asn.au).
- E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.
- F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.
- G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomalous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.
- H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.
- I. LabMark shall maintain an official copy of this Certificate of Analysis for all traceable reference purposes.

### 2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

- A. SRN issued to client upon sample receipt & login verification.
- B. Preservation & sampling date details specified on COC and SRN, unless noted.
- C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

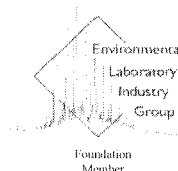
### 3. NATA ACCREDITED METHODS

- A. NATA accreditation held for each method and sample matrix type reported, unless noted below.
- B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.
- C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.  
Reported by Sydney Analytical Laboratories, NATA accreditation No.1884.

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



CUSTOMER CENTRIC - ANALYTICAL CHEMISTS



Laboratory Report: E023266

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#### 4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	4	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	4	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	4	0	0%	0	0	0%
3	Polyaromatic Hydrocarbons (PAH)	4	0	0%	0	0	0%
4	Acid extractable metals (M7)	7	1	14%	0	1	14%
6	Acid extractable mercury	7	1	14%	0	1	14%
7	Moisture	7	--	--	--	--	--
8	POCAS	2	1	50%	0	0	0%

#### GLOSSARY:

- #d number of discrete duplicate extractions/analyses performed.  
%d-ratio NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).  
#t number of triplicate extractions/analyses performed.  
#s number of spiked samples analysed.  
%s-ratio USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

#### 5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. SAL reference SAL16456, results for POCAS issued on 29/08/05.

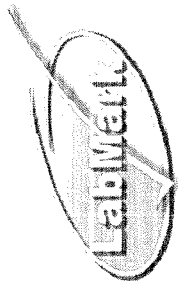
Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

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

LabMark PTY LTD ABN 27 079 798 397  
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Form QS-0144, Rev. 0 : Date Issued 10/03/05



Laboratory Report No: E023266

Client Name: Urban Environmental

Contact Name: Franco Fucceneco

Client Reference: Meriton Arncliffe

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plus cover page

Date: 30/08/05

This report supercedes reports issued on 23/08/05

Final

Certificate

of Analysis



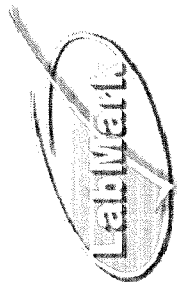
Laboratory Identification		33683	33685	33687	33689	les	mb		
Sample Identification				BH11	QC4	QC	QC		
Depth (m)		0.5	0.5	0.3	--	--	--		
Sampling Date recorded on COC		10/8/05	10/8/05	10/8/05	10/8/05	--	--		
Laboratory Extraction (Preparation) Date		16/8/05	16/8/05	16/8/05	16/8/05	16/8/05	16/8/05		
Laboratory Analysis Date		18/8/05	18/8/05	18/8/05	18/8/05	16/8/05	16/8/05		
Method E002.2	BTEX by P&T								
	EQL								
	Benzene		<0.2	<0.2	<0.2	116%	<0.2		
	Toluene		<0.5	<0.5	<0.5	114%	<0.5		
	Ethylbenzene		<0.5	<0.5	<0.5	111%	<0.5		
	meta- and para-Xylene		<1	<1	<1	119%	<1		
	ortho-Xylene		<0.5	<0.5	<0.5	110%	<0.5		
Total Xylene		--	--	--	--	--	--		
CDFB (Surr @ 10mg/kg)		97%	89%	86%	93%	99%	99%		
Method E003.2	Volatile TPH by P&T (vTPH)								
	C6 - C9 Fraction		<10	<10	<10	98%	<10		

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&amp;T/GC/PID/MSD.

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&amp;T/GC/FID.



Laboratory Report No: E023266

Client Name: Urban Environmental

Contact Name: Franco Fuccenecco

Client Reference: Meriton Arncliffe

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plus cover page

Date: 30/08/05

This report supersedes reports issued on: 23/08/05

Final

# Certificate

of Analysis

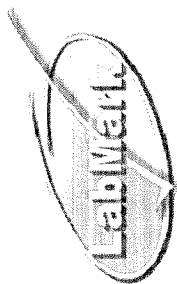


Laboratory Identification		33683	33685	33687	33689	les	mb		
Sample Identification		BH7	BH9	BH11	QC4	QC	QC		
Depth (m)		0.5	0.5	0.3	--	--	--		
Sampling Date recorded on COC		10/8/05	10/8/05	10/8/05	10/8/05	--	--		
Laboratory Extraction (Preparation) Date		16/8/05	16/8/05	16/8/05	16/8/05	16/8/05	16/8/05		
Laboratory Analysis Date		18/8/05	18/8/05	18/8/05	18/8/05	16/8/05	16/8/05		
Method E006.2	Petroleum Hydrocarbons (TPH)	EQL							
	C10 - C14 Fraction	50	<50	<50	<50	--	<50		
	C15 - C28 Fraction	100	<100	<100	<100	84%	<100		
	C29 - C36 Fraction	100	<100	<100	<100	--	<100		
	Sum of TPH C10 - C36	--	--	--	--	--	--		

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.



Laboratory Report No: E023266

Client Name: Urban Environmental

Contact Name: Franco Fuccenecco

Client Reference: Meriton Arncliffe

Page: 3 of 8

plus cover page

Date: 30/08/05

This report supersedes reports issued on 23/08/05

Final

Certificate

of Analysis

10/08/05

20/08/05

Laboratory Identification		33683	33685	33687	33689	lcs	mb		
Sample Identification		BH7	BH9	BH11	QC4	QC	QC		
Depth (m)		0.5	0.5	0.3	--	--	--		
Sampling Date recorded on COC		10/8/05	10/8/05	10/8/05	10/8/05	--	--		
Laboratory Extraction (Preparation) Date		16/8/05	16/8/05	16/8/05	16/8/05	16/8/05	16/8/05		
Laboratory Analysis Date		17/8/05	17/8/05	17/8/05	17/8/05	16/8/05	16/8/05		
Method	Polyaromatic Hydrocarbons (PAH)	EQL							
E007.2	Naphthalene	0.5	<0.5	<0.5	<0.5	106%	<0.5		
	Acenaphthylene	0.5	<0.5	<0.5	<0.5	110%	<0.5		
	Acenaphthene	0.5	<0.5	<0.5	<0.5	109%	<0.5		
	Fluorene	0.5	<0.5	<0.5	<0.5	112%	<0.5		
	Phenanthrene	0.5	<0.5	<0.5	<0.5	123%	<0.5		
	Anthracene	0.5	<0.5	<0.5	<0.5	116%	<0.5		
	Fluoranthene	0.5	<0.5	<0.5	<0.5	110%	<0.5		
	Pyrene	0.5	<0.5	<0.5	<0.5	111%	<0.5		
	Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	103%	<0.5		
	Chrysene	0.5	<0.5	<0.5	<0.5	122%	<0.5		
	Benzo(b)&(k)fluoranthene	1	<1	<1	<1	103%	<1		
	Benzo(a) pyrene	0.5	<0.5	<0.5	<0.5	103%	<0.5		
	Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	105%	<0.5		
	Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	100%	<0.5		
	Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	112%	<0.5		
	Sum of reported PAHs	--	3.3	--	--	--	--		
	2-FBP (Surr @ 5mg/kg)	--	91%	102%	95%	95%	106%		
	TP-d14 (Surr @ 5mg/kg)	--	126%	123%	129%	120%	122%		

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.



Laboratory Report No: E023266

Client Name: Urban Environmental

Contact Name: Franco Fuccenecco

Client Reference: Meriton Arncliffe

Page: 4 of 8

plus cover page

Date: 30/08/05

This report supersedes reports issued on: 23/08/05

Final

## Certificate

of Analysis

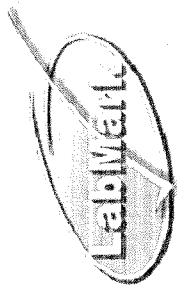


Laboratory Identification		33683	33684	33685	33686	33687	33688	33689	33684d	33684r	33686s
Sample Identification											
Depth (m)		0.5	0.5	0.5	0.5	0.3	0.5	--	--	--	--
Sampling Date recorded on COC		10/8/05	10/8/05	10/8/05	10/8/05	10/8/05	10/8/05	10/8/05	17/8/05	17/8/05	17/8/05
Laboratory Extraction (Preparation) Date		17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05
Laboratory Analysis Date		17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05
Method	Acid extractable metals (M7)										
E022.2	Arsenic	<1	<1	16	3	2	3	2	<1	--	104%
	Cadmium	<0.1	<0.1	0.5	0.3	<0.1	0.2	<0.1	<0.1	--	102%
	Chromium	1	4	14	9	9	11	10	2	67%	113%
	Copper	2	10	160	16	13	660	18	<2	--	95%
	Nickel	1	1	12	7	8	9	9	<1	--	98%
	Lead	2	23	260	61	21	91	26	<2	--	#
	Zinc	14	<5	550	96	19	59	23	<5	--	#

Results expressed in mg/kg dry weight unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.



Laboratory Report No: E023266

Client Name: Urban Environmental

Contact Name: Franco Fuccenecco

Client Reference: Meriton Arncliffe

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plus cover page

Date: 30/08/05

Final

Certificate

of Analysis

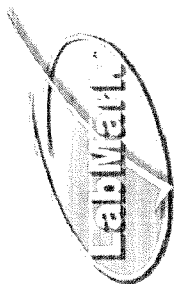
This report supercedes reports issued on: 23/08/05

Laboratory Identification		crm	les	mb					
Sample Identification		QC	QC	QC					
Depth (m)		--	--	--					
Sampling Date recorded on COC		--	--	--					
Laboratory Extraction (Preparation) Date		17/8/05	17/8/05	17/8/05					
Laboratory Analysis Date		17/8/05	17/8/05	17/8/05					
Method	Acid extractable metals (M7)	EQL							
E022.2	Arsenic	96%	91%	<1					
	Cadmium	101%	107%	<0.1					
	Chromium	102%	105%	<1					
	Copper	98%	102%	<2					
	Nickel	99%	97%	<1					
	Lead	113%	109%	<2					
	Zinc	96%	112%	<5					

Results expressed in mg/kg dry weight unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.



Laboratory Report No: E023266

Client Name: Urban Environmental

Contact Name: Franco Fuccenecco

Client Reference: Meriton Arncliffe

Page: 6 of 8

plus cover page

Date: 30/08/05

This report supersedes reports issued on: 23/08/05

Final

## Certificate

of Analysis



Laboratory Identification		33683	33684	33685	33686	33687	33688	33689	33684d	33684r	33686s
Sample Identification		BH7	BH8	BH9	BH10	BH11	BH12	QC4	QC	QC	QC
Depth (m)		0.5	0.5	0.5	0.5	0.3	0.5	--	--	--	--
Sampling Date recorded on COC		10/8/05	10/8/05	10/8/05	10/8/05	10/8/05	10/8/05	10/8/05	17/8/05	17/8/05	17/8/05
Laboratory Extraction (Preparation) Date		17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05
Laboratory Analysis Date		17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05
Method	Acid extractable mercury										
E026.2	Mercury	EQL 0.05	0.12	0.14	0.26	<0.05	0.08	<0.05	0.11	9%	88%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

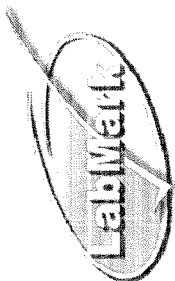
E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		crm	lcs	mb						
Sample Identification		QC	QC	QC						
Depth (m)		--	--	--						
Sampling Date recorded on COC		--	--	--						
Laboratory Extraction (Preparation) Date		17/8/05	17/8/05	17/8/05						
Laboratory Analysis Date		17/8/05	17/8/05	17/8/05						
Method	Acid extractable mercury									
E026.2	Mercury	EQL 0.05	93%	81%	<0.05					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.



Laboratory Report No: E023266

Client Name: Urban Environmental

Contact Name: Franco Fuccenecco

Client Reference: Meriton Arncliffe

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plus cover page

Date: 30/08/05

Final

# Certificate

of Analysis

This report supercedes reports issued on: 23/08/05

Laboratory Identification		33683	33684	33685	33686	33687	33688	33689	33684d	33684r	
Sample Identification											
Depth (m)		0.5	0.5	0.5	0.5	0.3	0.5	--	--	--	
Sampling Date recorded on COC		10/8/05	10/8/05	10/8/05	10/8/05	10/8/05	10/8/05	10/8/05	--	--	
Laboratory Extraction (Preparation) Date		16/8/05	16/8/05	16/8/05	16/8/05	16/8/05	16/8/05	16/8/05	16/8/05	16/8/05	
Laboratory Analysis Date		17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	17/8/05	
Method	Moisture										
E005.2	Moisture	6	4	11	11	9	16	10	3	29%	
EQL		--									

Results expressed in % w/w unless otherwise specified

Comments:

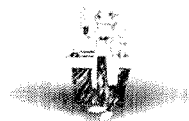
E005.2: Moisture by gravimetric analysis. Results are in % w/w.





Quality, Service, Support

# Sample Receipt Notice (SRN)



Client Details		Laboratory Reference Information	
<b>Client Name:</b> Urban Environmental <b>Client Phone:</b> 02 9555 7570 <b>Client Fax:</b> 02 9555 6313 <b>Contact Name:</b> Franco Fuccenecco <b>Contact Email:</b> urban.environmental@bigpond.com <b>Client Address:</b> PO Box 1070 ROZELLE NSW 2039  <b>Project Name:</b> Meriton Arncliffe <b>Project Number:</b> - Not provided - <b>CoC Number:</b> - Not provided - <b>Purchase Order:</b> - Not provided - <b>Surcharge:</b> No surcharge applied (results by 6:30pm on due date) <b>Sample Matrix:</b> SOIL		<b>Please have this information ready when contacting Labmark.</b>  <b>Laboratory Report:</b> E023266 <b>Quotation Number:</b> - Not provided, standard prices apply <b>Laboratory Address:</b> Unit 1, 8 Leighton Pl. Asquith NSW 2077  <b>Phone:</b> 61 2 9476 6533 <b>Fax:</b> 61 2 9476 8219  <b>Sample Receipt Contact:</b> Ros Schacht <b>Email:</b> ros.schacht@labmark.com.au <b>Reporting Contact:</b> Jyothi Lal <b>Email:</b> jyothi.lal@labmark.com.au	
<b>Date Sampled (earliest date):</b> 10/08/2005 <b>Date Samples Received:</b> 12/08/2005 <b>Date Sample Receipt Notice issued:</b> 16/08/2005 <b>Date Preliminary Report Due:</b> 23/08/2005		<b>NATA Accreditation:</b> 13542 <b>TGA GMP License:</b> 185-336; <b>Enterprise No.</b> 41681 <b>APVMA License:</b> 6105 <b>AQIS Approval:</b> NO356 <b>AQIS Entry Permit:</b> 200409998	

#### Sample Condition:

COC received with samples. Report number and lab ID's defined on COC.

Samples received in good order.

Samples received with cooling media: Crushed ice.

Samples received chilled.

Security seals not required. Direct Labmark's custody taken.

Sample container & sample integrity suitable.

#### Comments:

POCAS samples frozen on receipt, tested outside THT as per client request. POCAS sub-contracted to SAL.

#### Holding Times:

Date received allows for insufficient time to meet Technical Holding Times.

Note: Samples received 0 day(s) after Technical Holding Times expire. LabMark can not guarantee holding time compliance.

#### Preservation:

Chemical preservation of samples satisfactory for requested analytes.

#### Important Notes:

Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur \$5.00/ sample/ 3 months. Additional refrigerated storage shall incur \$20/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

#### Analysis comments:

#### Subcontracted Analyses:

Reported by Sydney Analytical Laboratories, NATA accreditation No.1884.

Thank you for choosing Labmark to analyse your project samples.

Additional information on [www.labmark.com.au](http://www.labmark.com.au)

# LABMARK

NATA 13542, AQIS N0356

## Client Details

**Safety Precaution:** laboratory sample bottles may contain preservation acid / chemicals, refer to SAFETEX label on bottle.

~~SECRET~~

Dispatch samples to:  
Unit 1/8 Leighton Place  
Asquith NSW 2077  
Australia

Telephone: 612-9476 5533  
Facsimile: 612-9475 8219  
After hours (DB): 0409 449694  
After hours (IP): 0419 689300  
E-mail: [ros.schacht@labmark.com.au](mailto:ros.schacht@labmark.com.au)  
Web: [www.labmark.com.au](http://www.labmark.com.au)

Company & Address: Urban Environmental  
Project Manager: France  
Project Name: Meriton Aircliffe  
Project Number:

Tel: 0412639272  
Fax: 95556313

Project Name: Merton Hinchliffe

Project Number: \_\_\_\_\_

Date Required: 18/8/05  
Lab. Quote No:

## Global Specifications I require

(default is Not required if Not ticked):

1. Urgent TAT required? ( please circle: 1 day 2 days 3 days ... days )

**Note1:** Additional water sample must be submitted for lab. duplicate & spike analysis.  
**Note2:** Contact lab if consolidating multiple analyses into a single sample container.

[illegible][illegible] Comments (Highly contaminated samples): |

Lab Report No.
----------------

Society Seal Applied

YES/NO

Relinquished by (print): Penelope Ford Signed: \_\_\_\_\_

Date: 12-8-05

18

Page: 178 Time:

Refrained by (print): \_\_\_\_\_ Signed: \_\_\_\_\_

Received By:

Date: \_\_\_\_\_ Time: \_\_\_\_\_

**APPENDIX C**  
**LABORATORY METHODS AND CERTIFICATES –**  
**GROUNDWATER**

**AQIS**AUSTRALIAN QUARANTINE  
AND INSPECTION SERVICE

SYDNEY License No. N0356

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

Quarantine Approved premises criteria 5.1 for quarantine containment level 1 (QCT) facilities. Class five criteria cover premises utilised for research, analysis and/or testing of biological material, soil, animal, plant and human products.

**CUSTOMER CENTRIC - ANALYTICAL CHEMISTS****FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION**

**Laboratory Report No:** E023279  
**Client Name:** Urban Environmental  
**Client Reference:** Meriton Arncliffe  
**Contact Name:** Franco Fuccenecco  
**Chain of Custody No:** ns  
**Sample Matrix:** WATER

Cover Page 1 of 3  
 plus Sample Results

**Date Received:** 15/08/2005  
**Date Reported:** 26/08/2005

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occurred within the agreed settlement period.

**QUALITY ASSURANCE CRITERIA**

**Accuracy:** matrix spike: 1 in first 5-20, then 1 every 20 samples  
 lcs, crm, method: 1 per analytical batch  
 surrogate spike: addition per target organic method

**Precision:** laboratory duplicate: 1 in first 5-10, then 1 every 10 samples  
 laboratory triplicate: re-extracted & reported when duplicate RPD values exceed acceptance criteria

**Holding Times:** soils, waters: Refer to LabMark Preservation & THT table  
 VOC's 14 days water / soil  
 VAC's 7 days water or 14 days acidified  
 VAC's 14 days soil  
 SVOC's 7 days water, 14 days soil  
 Pesticides 7 days water, 14 days soil  
 Metals 6 months general elements  
 Mercury 28 days

**Confirmation:** target organic analysis: GC/MS, or confirmatory column

**Sensitivity:** EQL: Typically 2-5 x Method Detection Limit (MDL)

**QUALITY CONTROL****GLOBAL ACCEPTANCE CRITERIA (GAC)**

**Accuracy:** spike, lcs, crm general analytes 70% - 130% recovery  
 surrogate: phenol analytes 50% - 130% recovery  
 organophosphorous pesticide analytes 60% - 130% recovery  
 phenoxy acid herbicides 50% - 130% recovery

anion/cation bal: +/- 10% (0-3 meq/l),  
 +/- 5% (>3 meq/l)

**Precision:** method blank: not detected >95% of the reported EQL  
 duplicate lab 0-30% (>10xEQL), 0-75% (5-10xEQL)  
 RPD (metals): 0-100% (<5xEQL)  
 duplicate lab 0-50% (>10xEQL), 0-75% (5-10xEQL)  
 RPD: 0-100% (<5xEQL)

**QUALITY CONTROL****ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)**

**Accuracy:** spike, lcs, crm analyte specific recovery data  
 surrogate: <3xsd of historical mean

**Uncertainty:** spike, lcs: measurement calculated from historical analyte specific control charts

**RESULT ANNOTATION**

DQO:	Data Quality Objective	s:	matrix spike recovery	p:	pending
DQI:	Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample
EQL:	Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material
---	not applicable	r:	RPD relative % difference	mb:	method blank

Ivan Povolny  
**Quality Control** (Report signatory)  
 ivan.povolny@labmark.com.au

Geoff Weir  
**Authorising Chemist** (NATA signatory)  
 geoff.weir@labmark.com.au

Simon Gobert  
**Authorising Chemist** (NATA signatory)  
 simon.gobert@labmark.com.au

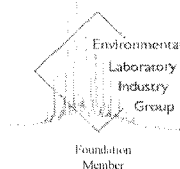
This document is issued in accordance with NATA's accreditation requirements.

LabMark PTY LTD ABN 27 079 798 397  
 \* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077 \* MELBOURNE: 116 Moray Street, South Melbourne VIC 3205  
 \* Telephone: (02) 9476 6533 \* Fax: (02) 9476 8219 \* Telephone: (03) 9686 8344 \* Fax: (03) 9686 7344

Form 090144, Rev 01 Date Issued 10/03/05



CUSTOMER CENTRIC - ANALYTICAL CHEMISTS



Laboratory Report: E023279

Cover Page 2 of 3

## NEPC GUIDELINE COMPLIANCE - DQO

### 1. GENERAL

- A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.
- B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.
- C. Laboratory QA/QC samples are specific to this project.
- D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at [www.nata.asn.au](http://www.nata.asn.au).
- E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.
- F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.
- G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomalous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.
- H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.
- I. LabMark shall maintain an official copy of this Certificate of Analysis for all traceable reference purposes.

### 2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

- A. SRN issued to client upon sample receipt & login verification.
- B. Preservation & sampling date details specified on COC and SRN, unless noted.
- C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

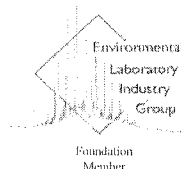
### 3. NATA ACCREDITED METHODS

- A. NATA accreditation held for each method and sample matrix type reported, unless noted below.
- B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.
- C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

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



CUSTOMER CENTRIC - ANALYTICAL CHEMISTS



Laboratory Report: E023279

Cover Page 3 of 3

#### 4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **WATER**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	4	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	4	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	3	0	0%	0	0	0%
3	Filtered metals (M7)	2	0	0%	0	0	0%
4	Filtered mercury	2	0	0%	0	0	0%

#### GLOSSARY:

- #d number of discrete duplicate extractions/analyses performed.
- %d-ratio NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
- #t number of triplicate extractions/analyses performed.
- #s number of spiked samples analysed.
- %s-ratio USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

#### 5. THERE ARE NO ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

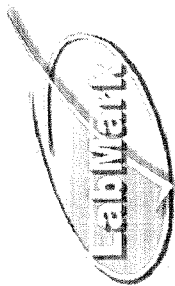
This document is issued in accordance with NATA's accreditation requirements.

LabMark PTY LTD ABN 27 079 798 397

\* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077  
\* Telephone: (02) 9476 6533 \* Fax: (02) 9476 8219

\* MELBOURNE: 116 Moray Street, South Melbourne VIC 3205  
\* Telephone: (03) 9686 8344 \* Fax: (03) 9686 7344

Form QSO144, Rev. 0 : Date Issued 10/03/05



Laboratory Report No: E023279

Page: 1 of 4

Final

Client Name: Urban Environmental

Certificate

Contact Name: Franco Fuccenecco

Date: 26/08/05

of Analysis

Client Reference: Meriton Arncliffe

This report supersedes reports issued on 24/08/05

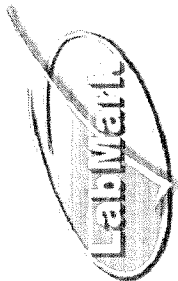
Laboratory Identification		33834	33835	33836	33837	ies	mb		
Sample Identification		MW1	MW2	MW3	QCMA	QC	QC		
Depth (m)		--	--	--	--	--	--		
Sampling Date recorded on COC		15/8/05	15/8/05	15/8/05	15/8/05				
Laboratory Extraction (Preparation) Date		22/8/05	22/8/05	22/8/05	22/8/05	22/8/05	22/8/05		
Laboratory Analysis Date		23/8/05	23/8/05	23/8/05	23/8/05	22/8/05	22/8/05		
Method E002.1	BTEX by P&T	EQL							
	Benzene	<1	<1	<1	<1	108%	<1		
	Toluene	<1	<1	<1	<1	110%	<1		
	Ethylbenzene	<1	<1	<1	<1	99%	<1		
	meta- & para-Xylene	<2	<2	<2	<2	106%	<2		
	ortho-Xylene	<1	<1	<1	<1	112%	<1		
	Total Xylene	--	--	--	--	--	--		
4-BFB (Surr @ 100ug/l)		73%	74%	73%	77%	101%	80%		
Method E003.1	Volatiles TPH by P&T (vTPH)	EQL							
	C6-C9	<50	<50	<50	<50	98%	<50		

Results expressed in ug/l unless otherwise specified

Comments:

E002.1: Direct injection into P&amp;T/GC/PID/MSD.

E003.1: Direct injection into P&amp;T/GC/FID.



Laboratory Report No: E023279

Page: 2 of 4

Final

Client Name: Urban Environmental

Certificate

Contact Name: Franco Fuccenecco

Date: 26/08/05

of Analysis

Client Reference: Meriton Arncliffe

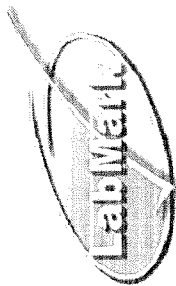
This report supercedes reports issued on 24/08/05

Laboratory Identification		33834	33835	33837	ics	mb			
Sample Identification		MW1	MW2	QCMA	QC	QC			
Depth (m)		--	--	--	--	--			
Sampling Date recorded on COC		15/8/05	15/8/05	15/8/05	18/8/05	18/8/05			
Laboratory Extraction (Preparation) Date		18/8/05	18/8/05	18/8/05	18/8/05	18/8/05			
Laboratory Analysis Date		19/8/05	19/8/05	19/8/05	19/8/05	19/8/05			
Method	Petroleum Hydrocarbons (TPH)	EQL							
E004.1	C10-C14 Fraction	50	<50	<50	--	<50			
	C15-C28 Fraction	200	<200	<200	80%	<200			
	C29-C36 Fraction	50	100	330	--	<50			
	Sum of TPH C10 - C36	--	100	330	--	--			

Results expressed in ug/l unless otherwise specified

Comments: -

E004.1: Triple extraction with DCM. Analysis by GC/FID.



Laboratory Report No: E023279

Page: 3 of 4

Final

Client Name: Urban Environmental

Certificate

Contact Name: Franco Fuccenecco

Date: 26/08/05

of Analysis

Client Reference: Meriton Arncliffe

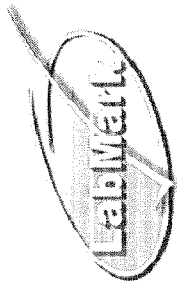
This report supersedes reports issued on 24/08/05

Laboratory Identification		33835	33837	ics	mb				
Sample Identification		MW2	QCMA	QC	QC				
Depth (m)		--	--	--	--				
Sampling Date recorded on COC		15/8/05	15/8/05						
Laboratory Extraction (Preparation) Date		17/8/05	17/8/05	17/8/05	17/8/05				
Laboratory Analysis Date		17/8/05	17/8/05	17/8/05	17/8/05				
Method	Filtered metals (M7)	EQL							
E022.1	Arsenic	1	15	99%	<1				
	Cadmium	0.1	<0.1	98%	<0.1				
	Chromium	1	*<10	98%	<1				
	Copper	1	<1	100%	<1				
	Nickel	1	6	98%	<1				
	Lead	1	<1	103%	<1				
	Zinc	5	<5	96%	<5				

Results expressed in ug/l unless otherwise specified

Comments: \*EQL increased due to matrix interference.

E022.1: Filtered HNO3 preserved sample directly analysed by ICP-MS.



Laboratory Report No: E023279

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Final

Client Name: Urban Environmental

Certificate

Contact Name: Franco Fuccenecco

Date: 26/08/05

of Analysis

Client Reference: Meriton Arncliffe

This report supersedes reports issued on 24/08/05

Laboratory Identification		33835	33837	ics	mb				
Sample Identification		MW2	QCMA	QC	QC				
Depth (m)		--	--	--	--				
Sampling Date recorded on COC		15/8/05	15/8/05	--	--				
Laboratory Extraction (Preparation) Date		17/8/05	17/8/05	17/8/05	17/8/05				
Laboratory Analysis Date		18/8/05	18/8/05	18/8/05	18/8/05				
Method E026.1	Filtered mercury	EQL 0.1							
	Mercury	0.1	0.1	98%	<0.1				

Results expressed in ug/l unless otherwise specified

Comments:

E026.1: Analysis by CV-ICP-MS or FIMS following BrCl pre-treatment.



Quality, Service, Support

# Sample Receipt Notice (SRN)



Client Details		Laboratory Reference Information	
<b>Client Name:</b> Urban Environmental <b>Client Phone:</b> 02 9555 7570 <b>Client Fax:</b> 02 9555 6313 <b>Contact Name:</b> Franco Fuccenecco <b>Contact Email:</b> urban.environmental@bigpond.com <b>Client Address:</b> PO Box 1070 ROZELLE NSW 2039  <b>Project Name:</b> Meriton Arncliffe <b>Project Number:</b> - Not provided - <b>CoC Number:</b> - Not provided - <b>Purchase Order:</b> - Not provided - <b>Surcharge:</b> No surcharge applied (results by 6:30pm on due date) <b>Sample Matrix:</b> WATER		<b>Please have this information ready when contacting Labmark.</b>  <b>Laboratory Report:</b> E023279 <b>Quotation Number:</b> - Not provided, standard prices apply <b>Laboratory Address:</b> Unit 1, 8 Leighton Pl. Asquith NSW 2077  <b>Phone:</b> 61 2 9476 6533 <b>Fax:</b> 61 2 9476 8219  <b>Sample Receipt Contact:</b> Ros Schacht <b>Email:</b> ros.schacht@labmark.com.au <b>Reporting Contact:</b> Jyothi Lal <b>Email:</b> jyothi.lal@labmark.com.au	
<b>Date Sampled (earliest date):</b>	15/08/2005	<b>NATA Accreditation:</b>	13542
<b>Date Samples Received:</b>	15/08/2005	<b>TGA GMP License:</b>	185-336; <b>Enterprise No.</b> 41681
<b>Date Sample Receipt Notice issued:</b>	16/08/2005	<b>APVMA License:</b>	6105
<b>Date Preliminary Report Due:</b>	24/08/2005	<b>AQIS Approval:</b>	NO356
		<b>AQIS Entry Permit:</b>	200409998

## Sample Condition:

COC received with samples. Report number and lab ID's defined on COC.  
Samples received in good order.  
Samples received with cooling media: Crushed ice.  
Samples received ambient.  
Security seals intact.  
Sample container & sample integrity suitable.

## Comments:

21.60 courier charge plus 2xfiltering

## Holding Times:

Date received allows for sufficient time to meet Technical Holding Times.

## Preservation:

Chemical preservation of samples satisfactory for requested analytes.

## Important Notes:

Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur \$5.00/ sample/ 3 months. Additional refrigerated storage shall incur \$20/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

## Analysis comments:

## Subcontracted Analyses:

Thank you for choosing Labmark to analyse your project samples.

Additional information on [www.labmark.com.au](http://www.labmark.com.au)

## Client Details

NATÄ 13542, AQIS N0356

Telephone: 612-9476 6533  
Facsimile: 612-9476 8219  
After hours (DB): 0409 449694  
After hours (IP): 0419 569300  
E-mail: [ros.schacht@labmark.com.au](mailto:ros.schacht@labmark.com.au)  
Web: [www.labmark.com.au](http://www.labmark.com.au)

## Client Details

**Safety Precaution:** laboratory sample bottles may contain preservation acid / chemicals, refer to SAFETEX label on bottle.

Company & Address: Vuban Environmental

**Project Manager:** *Edwards*

Sampler: penelope

Project Name: Meatballs

1

Id: 0412039277

Fx: 9555 6313

Date Required: 23/8/05

**Lab. Quote No:**

## Global Specifications I require

(default is Not required if Not ticked):

1. Urgent TAT required? ( please circle: 1 day 2 days 3 days ...7 days )
2. Fast TAT Guarantee required? ( Surcharge may apply - Receipt cutoff time 3.00pm)
3. Do you wish sediment present in waters to be included in organic/inorganic extractions?
4. Additional QA/QC reported where sample batches submitted are < 10 samples?
5. Do you require DIFFERENT standard EQL's from those stated @ [www.labmark.com.au](http://www.labmark.com.au)?
6. Do you wish chromatograms to be supplied? (Additional fee applies).
7. Electronic data transfer (circle: fax .xls .csv .pdf )?

**Note1:** Additional water sample must be submitted for lab, duplicate & spike analysis.  
**Note2:** Contact lab if consolidating multiple analyses into a single sample container.

[illegible]

\*Metals (circle). As, Cd, Cr, Cu, Ni, Pb, Zn, Hg,  $\text{Cr}^{6+}$ ,  $\text{Cr}^{3+}$ ,  $\text{Fe}^{2+}$ .

Comments (Highly contaminated samples): \* lots of sediment

Lab Report No.

**Social Security Act**

YES

Relinquished by (print):

Envelope Ford

**Signed:**

benzene

Date: 11/11/2011

W. D. Fries

11/15/53

1

NOTE: PLEASE FILTER METAL SAMPLES IN LAB ASAP

Date: \_\_\_\_\_ Received By: \_\_\_\_\_

1

Time:

**APPENDIX D**  
**FIELD QUALITY ASSURANCE PLAN**

## **APPENDIX D**

### **FIELD QUALITY ASSURANCE PLAN**

The following section describes the field procedures used during the soil sampling programme and groundwater investigation at the site. Penelope Ford, the environmental scientist of Urban Environmental undertook soil sampling on 10 August and water sampling on 15 August 2005.

#### **D.1 SAMPLE QUALITY CONTROL**

##### **Field Decontamination Procedures**

The majority of soil samples were collected using a stainless steel trowel where samples were collected from the solid flight auger. The material on the outside of the auger was removed using the hand trowel and samples obtained close to the flights above the drill bit. This procedure was carried out to ensure that cross contamination from material higher in the borehole did not occur. The shallow samples obtained from 0.5m and 1.0m were obtained using a handauger. After each sample was collected, the handauger and stainless steel trowel was decontaminated using a solution of Decon 90 and then rinsed using deionised water. Augers were decontaminated by high pressure water spray between boreholes.

All groundwater samples were obtained from onsite monitoring wells using a dedicated disposable PVC bailer, sheathed in a protective plastic covering (removed prior to sampling).

New neoprene gloves were worn during all soil and water sampling, and were replaced between collection of each sample. New laboratory supplied sample bottles were also used for each soil and water sample.

#### **D.2 Soils**

##### **Soil Sampling**

At each sampling interval, a soil sample was taken for VOC measurement and was placed directly into a "zip-lock" plastic bag, and screened using a photoionisation detector (PID). Results of the field screening measurements are included in the Borehole Logs, presented in Appendix A. At each sample location a soil sample was placed into a new 125mL glass jar and sealed with a screw cap lid incorporating a teflon insert. The sealed sample jar was then placed immediately into a cooler containing ice. Sample bottles were labelled and identified with the project name, unique sample number and date of collection. Samples were recorded on a chain of custody form. The chain of custody form accompanied samples upon dispatch to the laboratory for analysis. Samples retained but not requiring immediate analysis were kept in refrigerated storage at the laboratory.

#### **Field QA/QC**

A total of 7 soil samples, including 1 duplicate were submitted for laboratory analysis. Field duplicate soil samples were collected at an approximate ratio of 1 duplicate per 10 (or less) primary samples. The duplicate soil samples were identified as a "QC sample" but the identity remained undisclosed. Duplicates were collected in the field by splitting the soil sample into two separate 125ml new sample bottles. The blind replicate samples were analysed for the same target analyte's as their respective primary sample.

Field duplicates were obtained to identify the variation in concentrations between samples collected from the same sampling point, and also for checking the repeatability of the laboratories analytical methodologies.

### **D.3 Groundwater**

#### **Monitoring Well Installation**

Two monitoring wells (MW2 and MW3) were installed onsite on 10 August 2005, and one monitoring well (MW1) was installed during the previous investigation in September 2004. The construction detail for each monitoring well is summarised in the drilling logs presented in Appendix A.

Monitoring wells were installed by Ability Plus, using a bobcat mounted drill rig, equipped with solid flight augers. Augers were decontaminated between boreholes using a high-pressure steam cleaner.

The casing for the monitoring wells was constructed from threaded and flush-joined Class 18 PVC pipe (50mm diameter). The casing string consisted of a 3.0m length of machine-slotted well screen (0.5mm slots) placed adjacent to the inferred groundwater zone. A plastic end cap was used to seal off the base of the casing.

A filtered sand/gravel pack (2mm grain size) was poured into the well annulus to a height of approximately 200mm above the well screen. Upon installation, each well was bailed to settle the gravel pack. The depth to gravel pack was checked to confirm that the well screen was covered by gravel pack.

A 0.3-0.5m bentonite seal was placed immediately above the settled gravel pack to physically isolate the well screen and prevent surface run-off from entering the well. The well annulus was then backfilled with sand and cuttings.

An expandable lockable cap was used to seal the top of the monitoring well.

### **Monitoring Well Gauging and Water Sampling**

Each new monitoring well installed was gauged, purged and sampled after installation.

Wells were gauged using an interface probe to measure the depth to "top of liquid" and the "thickness" of any phase separated hydrocarbon (PSH). No PSH was encountered in any of the monitoring wells during the groundwater assessment. This was confirmed visually by sampling each of the wells using a disposable bailer.

In order to obtain groundwater samples at the site, three well volumes were purged from each well using a new dedicated disposable PVC bailer. The groundwater sample from each well was collected using the dedicated bailer.

### **Laboratory Samples**

Water samples analysed for TPH were drained from the bailer into a new 500ml amber glass bottle. Each bottle was completely filled to exclude air and sealed with a teflon lined cap.

Water samples analysed for BTEX compounds were drained from the bailer into two new 40ml glass volatile organic analysis (VOA) vials. Each VOA vial was completely filled to exclude air and was sealed by a teflon lined septum.

Water samples analysed for metals were drained from the bailer into two new 250ml unacidified plastic containers. Each container was completely filled to exclude air and was sealed by a teflon lined septum. Upon laboratory receipt these samples were filtered to remove contained sediment.

All water sample containers were placed immediately into a cooler containing ice and transported directly to the analytical laboratory with a chain of custody form.

### **Laboratory Analysis**

Soil samples collected were forwarded to Labmark for analysis of total petroleum hydrocarbons (TPH) including constituent chainlengths, and the BTEX compounds benzene, toluene, ethylbenzene and xylenes and metals.

Labmark is NATA registered for the analysis carried out. Samples not analysed by the laboratory were stored in refrigeration for 30 days.

**APPENDIX E**  
**LABORATORY QUALITY ASSURANCE PLAN**

## **APPENDIX E**

### **LABORATORY QUALITY ASSURANCE PLAN**

The following provides a summary of the field and laboratory QA/QC data collected during the assessment works conducted at the site, located between Bonar and Loftus Streets, Arncliffe. This QA/QC analysis is carried out to evaluate both the field and laboratory data.

#### **E.1 Laboratory Analytical Methods**

A summary of the soil and groundwater samples submitted to the analytical laboratories are summarised in Table A. The laboratory analytical methods and limits of reporting (LOR) are shown on the official Certificate of Analysis issued by the laboratory. All laboratory analytical methods are required to be in compliance with Schedule B(3) of the National Environment Protection – Assessment of Site Contamination Measure (NEPC 1999).

##### **Soil**

A total of 7 soil samples (including 1 duplicate sample) were collected from the site during the environmental site assessment.

##### **Water**

A total of 4 water samples (including 1 duplicate sample) were collected for analysis during the recent groundwater monitoring event.

**TABLE A**  
**Laboratory Analysis Summary Information**

<b>SOILS</b>		
<b>Analyte</b>	<b>No. Samples Analysed</b>	<b>Analytical Method</b>
BTEX	4	Purge and Trap, Quantification by GC/PID/MSD
TPH C <sub>6</sub> -C <sub>9</sub>	4	Purge and Trap, Quantification by GC/FID
TPH C <sub>10</sub> -C <sub>36</sub>	4	Solvent Extraction, Quantification by GC/FID
PAHs	4	
8 Priority Metals	7	ICP-MS
<b>GROUNDWATER</b>		
BTEX	4	Purge and Trap, Quantification by GC/PID/MSD
TPH C <sub>6</sub> -C <sub>9</sub>	4	Purge and Trap, Quantification by GC/FID
TPH C <sub>10</sub> -C <sub>36</sub>	4	Solvent Extraction, Quantification by GC/FID
8 Priority Metals	4	ICP-MS

Notes: GC = Gas Chromatography  
PID = photoionisation detection  
FID = flame ionisation detection

MSD = mass spectrometry

## **E.2 Field QA/QC**

Field Quality Control was carried out as part of the QA/QC programme for the site in order to validate the integrity of field procedures and to assess the reliability of laboratory analysis. Samples were submitted to Labmark at the sample rate of 1 in 10 (or less). The Australian Standard AS4482.1-1997, referenced in the NEPM (NEPC 1999) indicates that for every 20 samples taken, one set of blind samples should be analysed.

To provide a measure of the precision of the internal samples within Labmark, results were compared via the calculation of relative percentage difference (RPD) for each set of duplicate results for each analyte (expressed as a percentage).

### **Soil Results**

A summary of the duplicate samples collected at the site is included in Table 1. One set of soil sample duplicates (labelled QC4 and BH11-0.3) were collected in the field and analysed for TPH, BTEX compounds, PAHs and metals.

RPD calculations for blind field duplicate results are presented in Table 1. With reference to the duplicate sample pair (QC4 and BH11-0.3) for BTEX, TPH and PAHs, all results were below the limit of reporting (LOR). With reference to the duplicate sample pair for metals the RPDs were generally within acceptable ranges. With reference to TPH C<sub>6</sub>-C<sub>9</sub> and C<sub>10</sub>-C<sub>14</sub> the RPDs were above the acceptable ranges and likely due to the smearing effect of the groundwater, causing heterogeneity in the soil profile. The elevated RPD value is not considered likely to alter the results or conclusions of the site assessment.

### **Groundwater Results**

A summary of the duplicate water samples collected at the site is included in Table 2. One set of sample duplicates (labelled QCMA and MW2) were collected in the field and analysed for TPH, BTEX compounds and metals.

RPD calculations for blind field duplicate results are presented in Table 2. With reference to the duplicate sample pair (QCMA and MW2) for TPH, BTEX and metals the RPDs were generally within acceptable ranges with the exception of TPH in the C<sub>26</sub> to C<sub>36</sub> range. The elevated RPD value is not considered likely to alter the results or conclusions of the site assessment.

### E.3 Laboratory QA/QC Evaluation

A review of the laboratory analytical data is included in the following section. In general the laboratory QA/QC procedure to determine the accuracy and precision of the analyses comprised a combination of the following:

- Analysis of a method blank (MB) to determine any contamination from the analytical process.
- Analysis of a spike or laboratory control sample (LCS) which is an externally prepared and supplied reference material containing representative analytes under investigation. The LCS monitors long term accuracy, and is measured as percent recovery (%R).
- Analysis of a matrix spike (S). A matrix spike involves a laboratory grade sample being introduced into one of the soil or groundwater samples being analysed to determine the effects between the sample matrix and analytes being measured. Results are reported as percent recovery (%R).
- Analysis of a laboratory prepared duplicate sample (D) to determine the overall efficiency of the method, the effect of the sample matrix on the analytical results, and the accuracy of the duplicate analysis.

The following data quality objectives represent current industry best practice and form the basis for the review of data quality:

- Accuracy, or average recoveries, should be in the range 75-125% based on laboratory spike data;
- RPDs for field duplicates should be below 50% for low level duplicates (ie  $<10 \times \text{LOR}$ ) and 30% for high level laboratory duplicates (ie  $>10 \times \text{LOR}$ ) for all analytes.
- Precision should be an average of  $\pm 20 - 50\%$  for laboratory duplicates.
- Soil samples for TPH and BTEX should be analysed within 14 days and samples for metals within 6 months.
- Water samples for TPH and BTEX should be analysed within 7 days.
- Field duplicates should be collected at a frequency of at 1 in 10.

#### Summary of QA/QC results

In summary the results of the laboratory QA/QC evaluation identified:

**Sample Integrity and Containers** - chain of custody (COC) documentation were signed and dated by Labmark personnel stating that all samples were received in good order and were presented in adequate sample containers.

**Holding Times** - all samples were extracted within the required holding times.

**Matrix Spikes** - all were within acceptable limits.

**Laboratory Control Samples** - all were within acceptable limits.

**Laboratory Duplicate Samples** - all RPD values were within acceptable limits.

**Method Blank** – selected analytes were below detection limits.



## TAX INVOICE

**Urban Environmental Consultants Pty Ltd**  
**ABN: 78 086 766 592**

Date: 2 September, 2005

To: Karimbla Construction Services Pty Ltd (ABN 69 093 419 875)  
Level 5, Museum Towers  
267 – 277 Castlereagh Street  
SYDNEY NSW 2000

Attention: Larissa Brennan

Reference: Email Proposal dated 28 July, 2005

Confirmation Fax dated 8 August 2005 (attached)

Phase 2 Environmental Site Assessment  
Bonar Street, Arncliffe

Lump Sum \$10,910

GST \$ 1,091

**Total Amount \$12,001**

---

**URBAN ENVIRONMENTAL CONSULTANTS PTY LTD**

SUITE 7, 4 HYAM STREET, BALMAIN, 2041 NSW

PO BOX 1070, ROZELLE, 2039 NSW

PHONE: 02 9555 7570

FAX: 02 9555 6313

MOB: 0413 584 110

EMAIL: [urban.environmental@bigpond.com](mailto:urban.environmental@bigpond.com)



**Meriton Apartments Pty Limited**  
**Builders and Developers**  
ABN 75 000 644 888

Level 5, 267-277 Castlereagh Street, Sydney NSW 2000  
Telephone: 02 9264 7177  
Facsimile: 02 9264 1402  
Email: [larissab@meriton.com.au](mailto:larissab@meriton.com.au)

**FAX**

**TO: FRANCO FUCCENECCO**  
**FAX NO: 9555 6313**  
**FROM: LARISSA BRENNAN**  
**DATE: 8 AUGUST 2005**      **No. of pages (incl. cover sheet): 1**  
**SUBJECT: CONTAMINATION REPORTS**

I refer to your quotes for the preparation of contamination assessments and advise that your quotes have been approved as follows:

- > Epsom Road, Rosebery - \$17,350 (incl GST)
- > Bonar Street, Arncliffe - \$12,000 (incl GST)

Please proceed to undertake the required work as per your scope of works.

Should you require any additional information, please contact me on 9264 7177 or via email [LarissaB@Meriton.com.au](mailto:LarissaB@Meriton.com.au)

Regards

Larissa Brennan  
Principal Town Planner  
MERITON APARTMENTS

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