



Job Number : 4E1239

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QAQC : Matrix Spike(s)

Analyte	Spike Level	Level Detected		Recovery Details			
		Spike 1	Spike 2	Rec 1 (%)	Rec 2 (%)	Average (%)	RPD (%)
E0090 OP Pesticides in Water (ug/L) (E125909)							
Dichlorvos	100	80		84%			
Mevinphos	100	90		88%			
Ethoprop	100	80		84%			
Phorate	100	90		88%			
Demeton-s-methyl	100	90		90%			
Diazinon	100	80		85%			
Disulfoton	100	90		86%			
Ronnel	100	80		82%			
Chlorpyrifos methyl	100	80		85%			
Chlorpyrifos	100	120		121%			
Merphos	100						
Parathion methyl	100	120		112%			
Fenthion	100	120		113%			
Malathion	100	90		87%			
Fenitrothion	100	80		81%			
Prothiofos	100	80		83%			
Stirophos	100	80		84%			
Ethion	100	100		102%			
Bolstar	100	120		120%			
Fensulfothion	100	80		79%			
Azinphos methyl	100	80		79%			
Coumaphos	100	100		105%			

PQL = Practical Quantitation Limit
nd = < PQL
-- = Not Applicable

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/L (ppm) unless otherwise specified

The number in brackets after the method header identifies the sample tested.



Job Number : 4E1239

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QAQC : Laboratory Control Sample(s)

Analyte	Level	Level Detected			Recovery Details		
		Result1	Result2	Result3	Rec 1 (%)	Rec 2 (%)	Rec 3 (%)
E0090 OP Pesticides in Water (ug/L)							
Dichlorvos	100	80			83%		
Mevinphos	100	80			84%		
Ethoprop	100	80			84%		
Phorate	100	90			86%		
Demeton-s-methyl	100	90			87%		
Diazinon	100	90			86%		
Disulfoton	100	80			82%		
Ronnel	100	80			83%		
Chlorpyrifos methyl	100	80			82%		
Chlorpyrifos	100	120			111%		
Merphos							
Parathion methyl	100	120			117%		
Fenthion	100	120			111%		
Malathion	100	90			88%		
Fenitrothion	100	80			84%		
Prothiofos	100	90			88%		
Stirophos	100	90			85%		
Ethion	100	100			101%		
Bolstar	100	120			115%		
Fensulfothion	100	90			94%		
Azinphos methyl	100	80			82%		
Coumaphos	100	120			114%		

PQL = Practical Quantitation Limit
 -- = Not Applicable
 nd = <PQL

(S) Soils : mg/kg (ppm) dry weight
 (W) Waters : mg/L (ppm) unless otherwise specified



Job Number : 4E1239

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QAQC : Laboratory Duplicate(s)

Analyte	Dupl A	Dupl B	Average	RPD (%)	Dupl A	Dupl B	Average	RPD (%)
E0090 OP Pesticides in Water (ug/L) (E125907)								
Dichlorvos	nd	nd						
Mevinphos	nd	nd						
Ethoprop	nd	nd						
Phorate	nd	nd						
Demeton-s-methyl	nd	nd						
Diazinon	nd	nd						
Disulfoton	nd	nd						
Ronnel	nd	nd						
Chlorpyrifos methyl	nd	nd						
Chlorpyrifos	nd	nd						
Merphos	nd	nd						
Parathion methyl	nd	nd						
Fenthion	nd	nd						
Malathion	nd	nd						
Fenitrothion	nd	nd						
Prothiofos	nd	nd						
Stirophos	nd	nd						
Ethion	nd	nd						
Bolstar	nd	nd						
Fensulfothion	nd	nd						
Azinphos methyl	nd	nd						
Coumaphos	nd	nd						

PQL = Practical Quantitation Limit
nd = < PQL
-- = Not Applicable

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/L (ppm) unless otherwise specified

The number in brackets after the method header identifies the sample tested.



Job Number : 4E1239

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QAQC : Method Blank(s)

ANALYTE	Sample ID PQL	Blank1	Blank2	Blank3	Blank4	Blank5
E0090 OP Pesticides in Water (ug/L)						
Dichlorvos	10	nd				
Mevinphos	10	nd				
Ethoprop	10	nd				
Phorate	10	nd				
Demeton-s-methyl	10	nd				
Diazinon	10	nd				
Disulfoton	10	nd				
Ronnel	10	nd				
Chlorpyrifos methyl	10	nd				
Chlorpyrifos	10	nd				
Merphos	10	nd				
Parathion methyl	10	nd				
Fenthion	10	nd				
Malathion	10	nd				
Fenitrothion	10	nd				
Prothiofos	10	nd				
Stirophos	10	nd				
Ethion	10	nd				
Bolstar	10	nd				
Fensulfothion	10	nd				
Azinphos methyl	10	nd				
Coumaphos	10	nd				

PQL = Practical Quantitation Limit
nd = < PQL
-- = Not Applicable

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/L (ppm) unless otherwise specified



Job Number : 4E1239

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QAQC : Matrix Spike(s)

Analyte	Spike Level	Level Detected		Recovery Details			
		Spike 1	Spike 2	Rec 1 (%)	Rec 2 (%)	Average (%)	RPD (%)
E0110 Priority PAH's in Water (ug/L) (E125910)							
Naphthalene	10	11		111%			
Acenaphthylene	10	12		121%			
Acenaphthene	10	12		125%			
Fluorene	10	13		128%			
Phenanthrene	10	13		129%			
Anthracene	10	13		129%			
Fluoranthene	10	13		128%			
Pyrene	10	13		130%			
Benz(a)anthracene	10	12		123%			
Chryene	10	13		129%			
Benzo(b) & (k)fluoranthene	20	25		123%			
Benzo(a)pyrene	10	12		124%			
Indeno(1.2.3-cd)pyrene	10	12		117%			
Dibenz(a,h)anthracene	10	12		122%			
Benzo(g,h,i)perylene	10	12		125%			
E0142 T.Phenolics as Phenol in Water(mg/L) (E125907)							
Total Phenolics	0.2	0.20		98%			

PQL = Practical Quantitation Limit
nd = < PQL
-- = Not Applicable

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/L (ppm) unless otherwise specified

The number in brackets after the method header identifies the sample tested.



Job Number : 4E1239

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QAQC : Laboratory Control Sample(s)

Analyte	Level	Level Detected			Recovery Details		
		Result1	Result2	Result3	Rec 1 (%)	Rec 2 (%)	Rec 3 (%)
E0110 Priority PAH's in Water (ug/L)							
Naphthalene	10	7			71%		
Acenaphthylene	10	8			77%		
Acenaphthene	10	7			74%		
Fluorene	10	7			73%		
Phenanthrene	10	7			74%		
Anthracene	10	7			74%		
Fluoranthene	10	8			76%		
Pyrene	10	8			76%		
Benz(a)anthracene	10	7			73%		
Chryene	10	7			73%		
Benzo(b) & (k)fluoranthene	20	15			75%		
Benzo(a)pyrene	10	7			73%		
Indeno(1.2.3-cd)pyrene	10	7			72%		
Dibenz(a,h)anthracene	10	7			73%		
Benzo(g,h,i)perylene	10	7			74%		
E0142 T.Phenolics as Phenol in Water(mg/L)							
Total Phenolics	0.2	0.21			104%		

PQL = Practical Quantitation Limit
 -- = Not Applicable
 nd = < PQL

(S) Soils : mg/kg (ppm) dry weight
 (W) Waters : mg/L (ppm) unless otherwise specified



Job Number : 4E1239

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QAQC : Laboratory Duplicate(s)

Analyte	Dupl A	Dupl B	Average	RPD (%)	Dupl A	Dupl B	Average	RPD (%)
E0110 Priority PAH's in Water (ug/L) (E125907)								
Naphthalene	nd	nd						
Acenaphthylene	nd	nd						
Acenaphthene	nd	nd						
Fluorene	nd	nd						
Phenanthrene	nd	nd						
Anthracene	nd	nd						
Fluoranthene	nd	nd						
Pyrene	nd	nd						
Benz(a)anthracene	nd	nd						
Chryene	nd	nd						
Benzo(b) & (k)fluoranthene	nd	nd						
Benzo(a)pyrene	nd	nd						
Indeno(1.2.3-cd)pyrene	nd	nd						
Dibenz(a,h)anthracene	nd	nd						
Benzo(g,h,i)perylene	nd	nd						
E0142 T.Phenolics as Phenol in Water(mg/L) (E125907)								
Total Phenolics	nd	nd						

PQL = Practical Quantitation Limit
nd = < POL
-- = Not Applicable

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/L (ppm) unless otherwise specified

The number in brackets after the method header identifies the sample tested.



Job Number : 4E1239

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QAQC : Method Blank(s)

ANALYTE	Sample ID PQL	Blank1	Blank2	Blank3	Blank4	Blank5
E0110 Priority PAH's in Water (ug/L)						
Naphthalene	1	nd				
Acenaphthylene	1	nd				
Acenaphthene	1	nd				
Fluorene	1	nd				
Phenanthrene	1	nd				
Anthracene	1	nd				
Fluoranthene	1	nd				
Pyrene	1	nd				
Benz(a)anthracene	1	nd				
Chryene	1	nd				
Benzo(b) & (k)fluoranthene	2	nd				
Benzo(a)pyrene	1	nd				
Indeno(1.2.3-cd)pyrene	1	nd				
Dibenz(a,h)anthracene	1	nd				
Benzo(g,h,i)perylene	1	nd				
E0142 T.Phenolics as Phenol in Water(mg/L)						
Total Phenolics	0.01	nd				

PQL = Practical Quantitation Limit
 nd = < PQL
 -- = Not Applicable

(S) Soils : mg/kg (ppm) dry weight
 (W) Waters : mg/L (ppm) unless otherwise specified

**SILLIKER**
Assuring Quality Worldwide**SILLIKER MICROTECH****FAXED**

Attention: Ms Julie Edman

AMDEL LIMITED
99 Mitchell Road
CARDIFF NSW 2285

Fax To: (02) 4902 4899

CERTIFICATE OF ANALYSIS

Report No:	S 04032802 cmo	Report Date:	12 July 2004
Date Received:	09 July 2004	Date Tested:	09 July 2004
Standing Order:	S024507	Arrival Temp:	14°C

RESULTS

Sample Description	Order No.	Date Sampled:
Water Samples - 09/07/04	4E1239	09/07/04

Sample Description	Thermotolerant Coliforms CFU per 100ml M12.2
WSP13 US	40 (est)
WSP13 DS	50 (est)
WSP15 IS	160
WSP301 US	280
WSP301 DS	220

Note: 'est' indicates Estimate


MARGARET BOLLIGER BSc, MASM, MAIFST
CONSULTANT MICROBIOLOGIST


NATA accredited Laboratory Number 2766 and/or 2142.
This Laboratory is accredited by the National Association
of Testing Authorities, Australia. The test(s) reported
herein have been performed in accordance with its scope
of accreditation. This document shall not be reproduced
except in full.

TGA Licence No: 152612

The data pertains solely to the analytical and sampling procedure(s) used and the condition and homogeneity of the sample(s) as received. The data therefore may not be representative of the lot or batch or other samples. Consequently the data may not necessarily justify the acceptance or rejection of a lot or batch, a product recall or support legal proceedings. It is the responsibility of the client to provide all information relevant to the analysis requested. This report does not imply that Silliker Microtech Pty Ltd has been engaged to consult upon the consequences of the analysis and for any action that should be taken as a result of the analysis.

SILLIKER MICROTECH PTY LTD

ABN 94 006 462 335

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4E1239

ECOWISE ENVIRONMENTAL

Amdel - Newcastle
99 Mitchell Road
Cardiff NSW 2285

Attention: Julie Edman
Fax: 02 4902 4899

Date: 13 July 2004

LABORATORY ANALYTICAL REPORT

Date Sampled: - 08.07.2004
Job Name: MISC_47905

Date Received: - 12.07.2004

Five samples were received for total phytoplankton identification and enumeration.

~~WSP13US~~

~~No high-risk blue-green algae were detected. Potentially hazardous blue-green algae detected were *Oscillatoria* (370 cells/mL). Blue-green algae with potential risk detected were *Pseudanabaena* (120 cells/mL). Nuisance algae detected were *Trachelomonas* (90 cells/mL) and *Gymnodinium* (10 cells/mL).~~

~~WSP13DS~~

~~No high-risk blue-green algae were detected. Potentially hazardous blue-green algae detected were *Oscillatoria* (100 cells/mL). Nuisance algae detected were *Trachelomonas* (30 cells/mL).~~

~~WSP13IS~~

~~No high-risk blue-green algae were detected. Potentially hazardous blue-green algae detected were *Oscillatoria* (trace). Blue-green algae with potential risk detected were *Pseudanabaena* (30 cells/mL) and *Planktothrix* (100 cells/mL). No nuisance algae were detected.~~

WS301US

No high-risk blue-green algae were detected. Blue-green algae with potential risk detected were *Pseudanabaena* (100 cells/mL) and *Planktothrix* (390 cells/mL). Nuisance algae detected were *Trachelomonas* (10 cells/mL) and *Phacus* (10 cells/mL).

WS301DS

No blue-green algae were detected. No nuisance algae were detected.



Simon Josey
for Manager, ECOWISE Environmental

LABORATORY TEST REPORT

ECOWISE Environmental
PO Box 1834 Pyshwick, ACT 2609
ABN 68 074 205 780

Telephone 02 6270 7650
Facsimile 02 6270 7608

To: Amdel - Newcastle
99 Mitchell Road
Cardiff NSW 2285
ATTN: Julie Edman

Job Name: MISC_47905
File No:

Facsimile 02 4902 4899

Sample Date: 8-JUL-2004

Customer Reference No:

This report details results of samples collected from

Amdel Ltd - Phytoplankton

Method (LOP)	Test	Units	Sample Site	406482 SITE	406483 SITE	406484 SITE	406485 SITE	406486 SITE
			Desc	WSP13DS	WSP13DS	WSP13IS	WS301US	WS301DS
			Time	11:00	11:00	11:45	12:30	13:00
			Ext.ID					
720.09	Algal Counts							
	Chlorophyta			150	260	0	230	692
	Cyanophyta			490	100	190	490	0
	Bacillariophyceae			0	0	0	0	77
	Chrysophyceae			0	0	0	0	0
	Xanthophyceae			0	0	0	0	0
	Euglenophyta			90	10	0	20	0
	Pyrrophyta			10	0	0	0	0
	Cryptophyceae			20	0	0	0	308
	Chrysophyta	No/mL		0	0	0	0	77
	Total Algae	No/mL		620	390	190	740	1100

END OF RESULTS

Comments:

This report must not be reproduced except in full.
This report relates only to the items tested hereon.
These samples were analysed as received into the laboratory.

This laboratory is NATA accredited for the tests shown herein.
Legend for Tests - Pres_Count means presumptive count and Conf_Count means confirmed count.

**Patterson Britton
& Partners Pty Ltd**

consulting engineers

FORM No. 5.004.1 (DEC 1992)

job number 442-05/5194

job title Worriewood

Dry Weather.

sheet number 1 of 1

prepared by DS chkd

date 8/7/04.

Var Ref Q02012166

To Andel,

Please test the following samples:

~~WS P13 US 412587~~

~~WS P13 DS~~

~~WS P13 TS~~

WS 301 US

10

WS 301 DS

11

Test all samples for:

~~Substrate~~

SS

TN, NH₃-N, TEN, Nitrates, Nitrites

TP, Ortho-P, Non filterable P

Hardness

Phenols

OC/OP Pesticides

Oil & Grease

PAHs

Chlorophyll-a

Algal ID

Faecal coliform

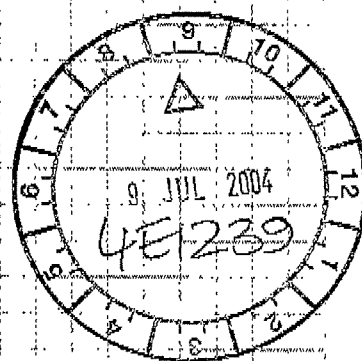
Metals: Cr, Pb, Zn, As, Hg, Cu

Regards

David Stone
David Stone

ph: 9957 1619

e: daids@pattbrit.com.au





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ANALYTICAL SERVICES DIVISION

ABN 30 008 127 802

Correspondence to:

PO Box 331

HUNTER REGIONAL MAIL

CENTRE NSW 2310

99 Mitchell Rd

CARDIFF NSW 2285

Telephone: (02) 4902 4800

Facsimile: (02) 4902 4899

CERTIFICATE OF ANALYSIS

Contents :

1. Cover Pages (2)
2. Analysis Report Pages
3. QA/QC Appendix
4. Additional Reports - External
(if applicable)
5. Chain of Custody (if applicable)

Report No. : 5E2427

Attention : David Stone

Client : Patterson Britton & Partners Pty Ltd
: PO Box 515
: NORTH SYDNEY

Samples : 8

Reference/Order : 4903/5194/5093-02

Project : WARRIEWOOD WET WEATHER

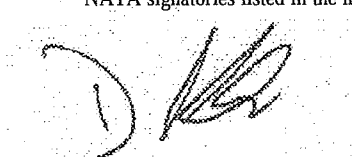
Received Samples : 01/07/05 Instructions : 01/07/05

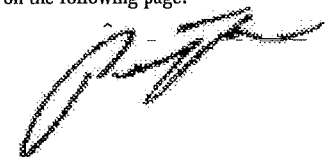
Date Reported : 21/07/05

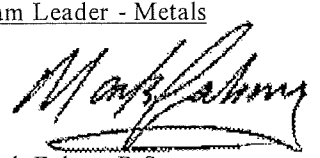
PLEASE SEE FOLLOWING PAGES FOR METHOD LISTING AND RESULTS

RESULTS

All samples were analysed as received. This report relates specifically to the samples as received. Results relate to the source material only to the extent that the samples as supplied are truly representative of the sample source. This report replaces any preliminary results issued. Note that for methods indicated with "#", NATA accreditation does not cover the performance of this service. Three significant figures (or 2 for <10PQL) are reported for statistical purposes only. Where "Total" concentrations are reported for organic suites of compounds this is the summation of the individual compounds and the PQL is noted for reporting purposes only. This report has been authorized by the NATA signatories listed in the method descriptions section on the following page.


Darrel Luck Ass. Dip. Applied Sc.(Chem.)
Team Leader - Metals


Peter Keyte B.Sc.(Chem.)
Senior Chemist - Inorganics


Mark Fahmy B.Sc.
Team Leader - SVOC



Report No. : 5E2427

Please note: Where samples are collected/submitted over several days, the date on which the last samples were analysed or extracted is reported.

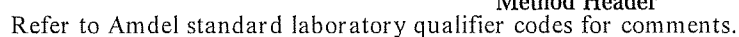
Unless Ferrous Iron is determined on site, the possibility of a ferrous-ferric ratio change may occur.

<u>Method</u>	<u>Description</u>	<u>Extracted</u>	<u>Analysed</u>	<u>Authorised</u>
E2330	Ammonia as N	04/07/05	04/07/05	DBL 101
E2770	TKN	12/07/05	18/07/05	DBL 101
E2570	Total Nitrogen	20/07/05	20/07/05	DBL 101
E2550	Nitrate-N	04/07/05	04/07/05	DBL 101
E2560	Nitrite-N	04/07/05	04/07/05	DBL 101
E2640	Phosphorus-Total	06/07/05	11/07/05	DBL 101
E2630	Dissolved Phosphorus	05/07/05	05/07/05	DBL 101
E2670	Suspended Solids	02/07/05	02/07/05	DBL 101
E2640	Phosphorus-Total (Filtered sample)	13/07/05	19/07/05	DBL 101
E2640R	Phosphorus-Total (Filtered Residue)	20/07/05	20/07/05	DBL 101



NATA Signatory

<u>Initials</u>	<u>Name</u>	<u>Sections/Methods</u>
MFA	Mark Fahmy	094, 095, 096
DJA	Dilanthi Jayamanne	094, 096
GTO	Greg Towers	094, 096
GPE	Geoff Peterson	095, 096
DLU	Darrel Luck	093, 096
MAV	Merrin Avery	101, 096
DBL	Dianne Blane	101, 096
NCO	Nathan Cooper	101, 096
AGR	Alison Graham	101, 096
PKE	Peter Keyte	101, 096
ZSI	Zoe Sin	096, 097, 098



Refer to Amdel standard laboratory qualifier codes for comments.