

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Authorised by:

Nibha Vaidya

Senior Analyst - Asbestos(NSW)



Glenn Jackson

National Operations Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Australian Government
National Measurement Institute

QUALITY ASSURANCE REPORT

EUROFINS MGT

3 Kingston Town Close
OAKLEIGH VIC 3166

Page 1 of 1

Attention: Nibha Vaidya

NMI Job No: EURO26_W/170420

Sample Matrix: Water

Sample LRN Range: W17/008670 - 008672

Analyte	LOR	Blank	Units	LRN	Duplicate	Recovery	Acceptability
				W17/008670	D	%	Limits
Perchlorate	0.02	<0.02	mg/L	<0.02	<0.02	102 %	90 - 110

Signed: Elena McConville-Wolfe
Chemist
NMI Kensington

Date: 26/04/2017

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL



REPORT OF ANALYSIS

Page: 1 of 2

Report No. RN1156238

Client	: EUROFINS MGT 3 KINGSTON TOWN CLOSE OAKLEIGH VIC 3166	Job No.	: EURO26_W/170420
		Quote No.	: QT-02002
		Order No.	: 17-257-542888
		Date Sampled	: 19-APR-2017
		Date Received	: 20-APR-2017
Attention	: NIBHA VAIDYA	Sampled By	: CLIENT
Project Name	:		
Your Client Services Manager	: David Lynch	Phone	: (08) 9368 8400

Lab Reg No.	Sample Ref	Sample Description
W17/008670	MW1	17-AP15269 WATER 19/04/17
W17/008671	MW2	17-AP15270 WATER 19/04/17
W17/008672	MW3	17-AP15271 WATER 19/04/17

Lab Reg No.		W17/008670	W17/008671	W17/008672		
Sample Reference		MW1	MW2	MW3		
	Units					Method
Inorganics						
Perchlorate	mg/L	< 0.02	< 0.02	< 0.02		WL119

Elena McConville-Wolfe, Analyst
Inorganics - WA
Accreditation No. 2474

26-APR-2017

Unless notified to the contrary, the above samples will be disposed of one month from the reporting date.



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This report shall not be reproduced except in full.
Results relate only to the sample(s) tested.

Accredited for compliance with ISO/IEC 17025 - Testing

26 Dick Perry Avenue, Kensington WA 6151 Tel: +61 8 9368 8400 Fax: +61 8 9368 8499 www.measurement.gov.au

REPORT OF ANALYSIS

Page: 2 of 2
Report No. RN1156238

Chemical Accreditation 2474:

26 Dick Perry Avenue, Kensington, WA, 6151

Eurofins Umwelt West GmbH - Vorgebirgsstrasse 20 - D-50389 - Wesseling

**Eurofins Environment Testing Australia Pty
Ltd.
Unit F3, Parkview Building - 16 Mars Road
NSW 206 Lane Cove West
AUSTRALIA**

Title : **Test report for order 01721572**
Test report number : **AR-17-AN-007826-01**

Project name : **Analytik von sauberen Wässern**
Number of samples : **3**
Sample type : **groundwater**
Date of sample taking : **2017-04-19**
Sample reception date : **2017-04-25**
Sample processing time : **2017-04-25 - 2017-05-05**

The test results refer solely to the analysed test specimen. Unless the sampling was done by our laboratory or in our sub-order the responsibility for the correctness of the sampling is disclaimed. This test report is only valid with signature and may only be further published completely and unchanged. Extracts or changes require the authorisation of the EUROFINS UMWELT in each individual case.

Our General Terms & Conditions of Sale (GTCS) are applicable, as far as no specific agreements do exist. The GTCS are available on <http://www.eurofins.de/umwelt/avb.aspx>.

Accredited test laboratory according to DIN EN ISO/IEC 17025 notification under the DAkkS German Accreditation System for Testing. The laboratory is according (D-PL-14078-01-00) accredited.

Martin Sölter
Analytical Service Manager
Phone +49 2236 897 0

Digitally signed 05.05.2017
Martin Sölter
Prüfleitung



				Description		MW1	MW2	MW3
				Date and time of sample taking		2017-04-19	2017-04-19	2017-04-19
				Sample number		017084516	017084517	017084518
Parameter	Lab	Accr.	Method	LOQ	Unit			
Nitro compounds								
2,4,6-Trinitrophenol	AN	LG004	DIN EN ISO 22478 F21	0.5	µg/l	< 0.5	< 0.5	< 0.5

Explanations

LOQ: Limit of quantification

Lab: Abbreviation of the performing laboratory

Accr.: Abbreviation of the accreditation of the performing laboratory

The parameters identified by AN have been performed by the laboratory Eurofins Umwelt West GmbH (Wesseling). The accreditation code LG004 identifies the parameters accredited according to DIN EN ISO/IEC 17025:2005 D-PL-14078-01-00 .



Sample Receipt Advice

Company name: **Coffey Environments Pty Ltd NSW**

Contact name: **Alex Ructtinger**

Project name: **ALEXANDRIA**

Project ID: **SYDEN199382**

COC number: **Not provided**

Turn around time: **5 Day**

Date/Time received: **Apr 19, 2017 11:46 AM**

Eurofins | mgt reference: **542888**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt
Sample Receipt : 22 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Appropriate sample containers have been used.
- ☒ Sample containers for volatile analysis received with zero headspace.
- ☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Nibha Vaidya on Phone : +61 (2) 9900 8400 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Alex Ructtinger - Alexander.Ructtinger@coffey.com.

Note: A copy of these results will also be delivered to the general Coffey Environments Pty Ltd NSW email address.

Company Name: Coffey Environments Pty Ltd NSW
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067
Project Name: ALEXANDRIA
Project ID: SYDEN199382

Order No.:
Report #: 542888
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Apr 19, 2017 11:46 AM
Due: Apr 27, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						2,4,6-Trinitrophenol	Ammonia (as N)	Antimony	Nitrate (as N)	Perchlorate	Potassium	Metals MS filtered	BTEX	SUB Fae Tests	Volatile Organics	Halogenated Volatile Organics	Semivolatile Organics	Total Recoverable Hydrocarbons	BTEX and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X		X					X					
Sydney Laboratory - NATA Site # 18217								X			X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 18217																			
External Laboratory										X									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID														
1	MW1	Apr 19, 2017		Water	S17-Ap15269	X	X	X	X	X	X	X		X	X	X	X	X	
2	MW2	Apr 19, 2017		Water	S17-Ap15270	X	X	X	X	X	X	X	X		X	X	X	X	
3	MW3	Apr 19, 2017		Water	S17-Ap15271	X	X	X	X	X	X	X	X		X	X	X	X	
4	DUP01	Apr 19, 2017		Water	S17-Ap15272		X	X	X				X						X
5	TB	Apr 19, 2017		Water	S17-Ap15273														X
6	TS	Apr 19, 2017		Water	S17-Ap15274														X
Test Counts						3	4	4	4	3	3	4	2	1	3	3	3	4	2

Certificate of Analysis

Coffey Environments Pty Ltd NSW
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Alex Ructtinger

Report 542888-W
Project name ALEXANDRIA
Project ID SYDEN199382
Received Date Apr 19, 2017

Client Sample ID			MW1 Water	MW2 Water	MW3 Water	DUP01 Water
Sample Matrix			S17-Ap15269	S17-Ap15270	S17-Ap15271	S17-Ap15272
Eurofins mgt Sample No.			Apr 19, 2017	Apr 19, 2017	Apr 19, 2017	Apr 19, 2017
Date Sampled						
Test/Reference	LOR	Unit				
2.4.6-Trinitrophenol	0.001	mg/L				-
Ammonia (as N)	0.01	mg/L	0.05	0.03	0.08	0.08
Nitrate (as N)	0.02	mg/L	2.1	< 0.02	5.7	5.9
Perchlorate			see attached	see attached	see attached	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	0.12	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
BTEX						
Benzene	0.001	mg/L	-	< 0.001	< 0.001	-
Toluene	0.001	mg/L	-	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	-	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	< 0.002	< 0.002	-
o-Xylene	0.001	mg/L	-	< 0.001	< 0.001	-
Xylenes - Total	0.003	mg/L	-	< 0.003	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	-	96	94	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-

Client Sample ID			MW1 Water	MW2 Water	MW3 Water	DUP01 Water
Sample Matrix			S17-Ap15269	S17-Ap15270	S17-Ap15271	S17-Ap15272
Eurofins mgt Sample No.			Apr 19, 2017	Apr 19, 2017	Apr 19, 2017	Apr 19, 2017
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	0.021	< 0.001	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Tetrachloroethene	0.001	mg/L	< 0.001	0.051	0.001	-
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Trichloroethene	0.001	mg/L	< 0.001	0.014	< 0.001	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Vinyl chloride	0.001	mg/L	< 0.001	0.006	< 0.001	-
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
Fluorobenzene (surr.)	1	%	88	96	96	-
4-Bromofluorobenzene (surr.)	1	%	94	96	94	-
Halogenated Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-

Client Sample ID			MW1 Water	MW2 Water	MW3 Water	DUP01 Water
Sample Matrix			S17-Ap15269	S17-Ap15270	S17-Ap15271	S17-Ap15272
Eurofins mgt Sample No.			Apr 19, 2017	Apr 19, 2017	Apr 19, 2017	Apr 19, 2017
Date Sampled						
Test/Reference	LOR	Unit				
Halogenated Volatile Organics						
1,2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1,2,3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1,3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1,3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1,4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
cis-1,2-Dichloroethene	0.001	mg/L	< 0.001	0.021	< 0.001	-
cis-1,3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Tetrachloroethene	0.001	mg/L	< 0.001	0.051	0.001	-
trans-1,2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
trans-1,3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Trichloroethene	0.001	mg/L	< 0.001	0.014	< 0.001	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Vinyl chloride	0.001	mg/L	< 0.001	0.006	< 0.001	-
Fluorobenzene (surr.)	1	%	88	96	96	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C6-C10	0.02	mg/L	< 0.02	0.12	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	0.12	< 0.02	< 0.02
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Semivolatile Organics						
2-Methyl-4,6-dinitrophenol	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
1-Chloronaphthalene	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
1-Naphthylamine	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
1,2-Dichlorobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
1,2,3-Trichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1,2,3,4-Tetrachlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1,2,3,5-Tetrachlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1,2,4-Trichlorobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
1,2,4,5-Tetrachlorobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
1,3-Dichlorobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
1,3,5-Trichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1,4-Dichlorobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
2-Chloronaphthalene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	-

Client Sample ID			MW1 Water	MW2 Water	MW3 Water	DUP01 Water
Sample Matrix			S17-Ap15269	S17-Ap15270	S17-Ap15271	S17-Ap15272
Eurofins mgt Sample No.			Apr 19, 2017	Apr 19, 2017	Apr 19, 2017	Apr 19, 2017
Date Sampled						
Test/Reference	LOR	Unit				
Semivolatile Organics						
2-Methylnaphthalene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
2-Naphthylamine	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
2-Nitroaniline	0.004	mg/L	< 0.004	< 0.004	< 0.004	-
2-Nitrophenol	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
2-Picoline	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2,3,4,6-Tetrachlorophenol	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
2,4-Dichlorophenol	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2,4-Dimethylphenol	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2,4-Dinitrophenol	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2,4-Dinitrotoluene	0.004	mg/L	< 0.004	< 0.004	< 0.004	-
2,4,5-Trichlorophenol	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2,4,6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	-
2,6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
2,6-Dinitrotoluene	0.004	mg/L	< 0.004	< 0.004	< 0.004	-
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	< 0.006	-
3-Methylcholanthrene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
3,3'-Dichlorobenzidine	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
4-Aminobiphenyl	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
4-Bromophenyl phenyl ether	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	-
4-Chlorophenyl phenyl ether	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
4-Nitrophenol	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
4,4'-DDD	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
4,4'-DDE	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
4,4'-DDT	0.004	mg/L	< 0.004	< 0.004	< 0.004	-
7,12-Dimethylbenz(a)anthracene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
a-BHC	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Acetophenone	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Aldrin	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Aniline	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
b-BHC	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bis(2-chloroethoxy)methane	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Bis(2-chloroisopropyl)ether	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Bis(2-ethylhexyl)phthalate	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
Butyl benzyl phthalate	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
d-BHC	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Di-n-butyl phthalate	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Di-n-octyl phthalate	0.002	mg/L	< 0.002	< 0.002	< 0.002	-

Client Sample ID			MW1 Water	MW2 Water	MW3 Water	DUP01 Water
Sample Matrix			S17-Ap15269	S17-Ap15270	S17-Ap15271	S17-Ap15272
Eurofins mgt Sample No.			Apr 19, 2017	Apr 19, 2017	Apr 19, 2017	Apr 19, 2017
Date Sampled						
Test/Reference	LOR	Unit				
Semivolatile Organics						
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenz(a,j)acridine	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenzofuran	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Dieldrin	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Diethyl phthalate	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Dimethyl phthalate	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Dimethylaminoazobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Diphenylamine	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Endosulfan I	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Endosulfan II	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Endosulfan sulphate	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Endrin	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Endrin aldehyde	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Endrin ketone	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
g-BHC (Lindane)	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Heptachlor	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Heptachlor epoxide	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Hexachlorobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Hexachlorobutadiene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Hexachlorocyclopentadiene	0.004	mg/L	< 0.004	< 0.004	< 0.004	-
Hexachloroethane	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Methoxychlor	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
N-Nitrosodibutylamine	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
N-Nitrosodipropylamine	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
N-Nitrosopiperidine	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Nitrobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Pentachlorobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Pentachloronitrobenzene	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	-
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Phenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
Pronamide	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Trifluralin	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Phenol-d6 (surr.)	1	%	79	68	88	-
Nitrobenzene-d5 (surr.)	1	%	94	94	100	-
2-Fluorobiphenyl (surr.)	1	%	126	123	126	-
2,4,6-Tribromophenol (surr.)	1	%	INT	INT	INT	-
Heavy Metals						
Antimony	0.005	mg/L	0.047	< 0.005	< 0.005	< 0.005
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	0.001	0.001	< 0.001	0.002
Copper (filtered)	0.001	mg/L	0.002	0.008	0.002	0.002
Lead (filtered)	0.001	mg/L	< 0.001	0.001	< 0.001	< 0.001

Client Sample ID			MW1	MW2	MW3	DUP01
Sample Matrix			Water	Water	Water	Water
Eurofins mgt Sample No.			S17-Ap15269	S17-Ap15270	S17-Ap15271	S17-Ap15272
Date Sampled			Apr 19, 2017	Apr 19, 2017	Apr 19, 2017	Apr 19, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.001	0.001	< 0.001	< 0.001
Zinc (filtered)	0.005	mg/L	< 0.005	0.006	< 0.005	0.005
Alkali Metals						
Potassium	0.5	mg/L	9.0	23	7.6	-

Client Sample ID			TB	TS
Sample Matrix			Water	Water
Eurofins mgt Sample No.			S17-Ap15273	S17-Ap15274
Date Sampled			Apr 19, 2017	Apr 19, 2017
Test/Reference	LOR	Unit		
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	0.02	mg/L	< 0.02	93%
BTEX				
Benzene	0.001	mg/L	< 0.001	103%
Toluene	0.001	mg/L	< 0.001	105%
Ethylbenzene	0.001	mg/L	< 0.001	101%
m&p-Xylenes	0.002	mg/L	< 0.002	109%
o-Xylene	0.001	mg/L	< 0.001	111%
Xylenes - Total	0.003	mg/L	< 0.003	110%
4-Bromofluorobenzene (surr.)	1	%	95	113
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
TRH C6-C10	0.02	mg/L	< 0.02	106%
Volatile Organics				
Naphthalene ^{N02}	0.01	mg/L	< 0.01	79%

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
TRH C6-C10 less BTEX (F1) - Method: LM-LTM-ORG-2010	Sydney	Apr 19, 2017	14 Day
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: TRH C6-C36 - LTM-ORG-2010	Sydney	Apr 26, 2017	7 Day
BTEX - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Apr 19, 2017	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Apr 19, 2017	7 Day
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Apr 19, 2017	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Apr 19, 2017	7 Day
2,4,6-Trinitrophenol - Method: USEPA 8270C Phenols	Melbourne	Apr 20, 2017	7 Day
Ammonia (as N) - Method: APHA 4500-NH3 Ammonia Nitrogen by FIA	Melbourne	Apr 20, 2017	28 Day
Nitrate (as N) - Method: APHA 4500-NO3 Nitrate Nitrogen by FIA	Melbourne	Apr 20, 2017	7 Day
Halogenated Volatile Organics - Method: E016 Volatile Halogenated Compounds (VHC)	Sydney	Apr 19, 2017	7 Day
Semivolatile Organics - Method: USEPA 8270 Semivolatile Organics	Sydney	Apr 26, 2017	7 Day
Heavy Metals - Method: LTM-MET-3040 Metals in Waters by ICP-MS	Sydney	Apr 19, 2017	180 Day
Metals M8 filtered - Method: LTM-MET-3040 Metals in Waters by ICP-MS	Sydney	Apr 20, 2017	28 Day
Alkali Metals - Method: E022/E030 Unfiltered Cations in Water	Sydney	Apr 20, 2017	180 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Apr 26, 2017	7 Day

Company Name: Coffey Environments Pty Ltd NSW
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067
Project Name: ALEXANDRIA
Project ID: SYDEN199382

Order No.:
Report #: 542888
Phone: +61 2 9406 1000
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Received: Apr 19, 2017 11:46 AM
Due: Apr 27, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						2,4,6-Trinitrophenol	Ammonia (as N)	Antimony	Nitrate (as N)	Perchlorate	Potassium	Metals M6 filtered	BTEX	SUB Fae Tests	Volatile Organics	Halogenated Volatile Organics	Semivolatile Organics	Total Recoverable Hydrocarbons	BTEX and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X		X					X					
Sydney Laboratory - NATA Site # 18217								X			X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																			
Perth Laboratory - NATA Site # 18217																			
External Laboratory										X									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID														
1	MW1	Apr 19, 2017		Water	S17-Ap15269	X	X	X	X	X	X	X		X	X	X	X	X	
2	MW2	Apr 19, 2017		Water	S17-Ap15270	X	X	X	X	X	X	X	X		X	X	X	X	
3	MW3	Apr 19, 2017		Water	S17-Ap15271	X	X	X	X	X	X	X	X	X		X	X	X	
4	DUP01	Apr 19, 2017		Water	S17-Ap15272		X	X	X				X						X
5	TB	Apr 19, 2017		Water	S17-Ap15273														X
6	TS	Apr 19, 2017		Water	S17-Ap15274														X
Test Counts						3	4	4	4	3	3	4	2	1	3	3	3	4	2

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 20-130%

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
Volatile Organics							
Naphthalene	mg/L	< 0.01			0.01	Pass	
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	mg/L	< 0.005			0.005	Pass	
1-Chloronaphthalene	mg/L	< 0.005			0.005	Pass	
1-Naphthylamine	mg/L	< 0.002			0.002	Pass	
1.2-Dichlorobenzene	mg/L	< 0.002			0.002	Pass	
1.2.3-Trichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2.3.4-Tetrachlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2.3.5-Tetrachlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2.4-Trichlorobenzene	mg/L	< 0.002			0.002	Pass	
1.2.4.5-Tetrachlorobenzene	mg/L	< 0.002			0.002	Pass	
1.3-Dichlorobenzene	mg/L	< 0.002			0.002	Pass	
1.3.5-Trichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.002			0.002	Pass	
2-Chloronaphthalene	mg/L	< 0.002			0.002	Pass	
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2-Methylnaphthalene	mg/L	< 0.002			0.002	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
2-Naphthylamine	mg/L	< 0.002			0.002	Pass	
2-Nitroaniline	mg/L	< 0.004			0.004	Pass	
2-Nitrophenol	mg/L	< 0.005			0.005	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Picoline	mg/L	< 0.001			0.001	Pass	
2.3.4.6-Tetrachlorophenol	mg/L	< 0.002			0.002	Pass	
2.4-Dichlorophenol	mg/L	< 0.001			0.001	Pass	
2.4-Dimethylphenol	mg/L	< 0.001			0.001	Pass	
2.4-Dinitrophenol	mg/L	< 0.001			0.001	Pass	
2.4-Dinitrotoluene	mg/L	< 0.004			0.004	Pass	
2.4.5-Trichlorophenol	mg/L	< 0.001			0.001	Pass	
2.4.6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.6-Dinitrotoluene	mg/L	< 0.004			0.004	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
3-Methylcholanthrene	mg/L	< 0.002			0.002	Pass	
3.3'-Dichlorobenzidine	mg/L	< 0.001			0.001	Pass	
4-Aminobiphenyl	mg/L	< 0.002			0.002	Pass	
4-Bromophenyl phenyl ether	mg/L	< 0.002			0.002	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
4-Chlorophenyl phenyl ether	mg/L	< 0.002			0.002	Pass	
4-Nitrophenol	mg/L	< 0.001			0.001	Pass	
4.4'-DDD	mg/L	< 0.002			0.002	Pass	
4.4'-DDE	mg/L	< 0.002			0.002	Pass	
4.4'-DDT	mg/L	< 0.004			0.004	Pass	
7.12-Dimethylbenz(a)anthracene	mg/L	< 0.002			0.002	Pass	
a-BHC	mg/L	< 0.002			0.002	Pass	
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Acetophenone	mg/L	< 0.002			0.002	Pass	
Aldrin	mg/L	< 0.002			0.002	Pass	
Aniline	mg/L	< 0.002			0.002	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
b-BHC	mg/L	< 0.002			0.002	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g,h,i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzyl chloride	mg/L	< 0.001			0.001	Pass	
Bis(2-chloroethoxy)methane	mg/L	< 0.002			0.002	Pass	
Bis(2-chloroisopropyl)ether	mg/L	< 0.002			0.002	Pass	
Bis(2-ethylhexyl)phthalate	mg/L	< 0.02			0.02	Pass	
Butyl benzyl phthalate	mg/L	< 0.002			0.002	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
d-BHC	mg/L	< 0.002			0.002	Pass	
Di-n-butyl phthalate	mg/L	< 0.002			0.002	Pass	
Di-n-octyl phthalate	mg/L	< 0.002			0.002	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.001			0.001	Pass	
Dibenz(a,j)acridine	mg/L	< 0.001			0.001	Pass	
Dibenzofuran	mg/L	< 0.002			0.002	Pass	
Dieldrin	mg/L	< 0.002			0.002	Pass	
Diethyl phthalate	mg/L	< 0.002			0.002	Pass	
Dimethyl phthalate	mg/L	< 0.002			0.002	Pass	
Dimethylaminoazobenzene	mg/L	< 0.002			0.002	Pass	
Diphenylamine	mg/L	< 0.002			0.002	Pass	
Endosulfan I	mg/L	< 0.002			0.002	Pass	
Endosulfan II	mg/L	< 0.002			0.002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/L	< 0.002			0.002	Pass	
Endrin	mg/L	< 0.002			0.002	Pass	
Endrin aldehyde	mg/L	< 0.002			0.002	Pass	
Endrin ketone	mg/L	< 0.002			0.002	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
g-BHC (Lindane)	mg/L	< 0.002			0.002	Pass	
Heptachlor	mg/L	< 0.002			0.002	Pass	
Heptachlor epoxide	mg/L	< 0.002			0.002	Pass	
Hexachlorobenzene	mg/L	< 0.002			0.002	Pass	
Hexachlorobutadiene	mg/L	< 0.002			0.002	Pass	
Hexachlorocyclopentadiene	mg/L	< 0.004			0.004	Pass	
Hexachloroethane	mg/L	< 0.002			0.002	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Methoxychlor	mg/L	< 0.001			0.001	Pass	
N-Nitrosodibutylamine	mg/L	< 0.002			0.002	Pass	
N-Nitrosodipropylamine	mg/L	< 0.002			0.002	Pass	
N-Nitrosopiperidine	mg/L	< 0.002			0.002	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Nitrobenzene	mg/L	< 0.002			0.002	Pass	
Pentachlorobenzene	mg/L	< 0.002			0.002	Pass	
Pentachloronitrobenzene	mg/L	< 0.002			0.002	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Phenol	mg/L	< 0.003			0.003	Pass	
Pronamide	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Trifluralin	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Antimony	mg/L	< 0.005			0.005	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Alkali Metals							
Potassium	mg/L	< 0.5			0.5	Pass	
LCS - % Recovery							
Ammonia (as N)	%	90			70-130	Pass	
Nitrate (as N)	%	89			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	112			70-130	Pass	
TRH C10-C14	%	86			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	100			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	98			70-130	Pass	
o-Xylene	%	99			70-130	Pass	
Xylenes - Total	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	%	109			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
Naphthalene	%	97			70-130	Pass	
1.1-Dichloroethane	%	98			70-130	Pass	
1.1-Dichloroethene	%	99			70-130	Pass	
1.1.1-Trichloroethane	%	98			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	99			70-130	Pass	
1.1.2-Trichloroethane	%	99			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	94			70-130	Pass	
1.2-Dibromoethane	%	99			70-130	Pass	
1.2-Dichlorobenzene	%	101			70-130	Pass	
1.2-Dichloroethane	%	100			70-130	Pass	
1.2-Dichloropropane	%	100			70-130	Pass	
1.2.3-Trichloropropane	%	101			70-130	Pass	
1.2.4-Trimethylbenzene	%	102			70-130	Pass	
1.3-Dichlorobenzene	%	103			70-130	Pass	
1.3-Dichloropropane	%	100			70-130	Pass	
1.3.5-Trimethylbenzene	%	103			70-130	Pass	
1.4-Dichlorobenzene	%	103			70-130	Pass	
2-Butanone (MEK)	%	90			70-130	Pass	
2-Propanone (Acetone)	%	114			70-130	Pass	
4-Chlorotoluene	%	101			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	95			70-130	Pass	
Allyl chloride	%	89			70-130	Pass	
Benzene	%	101			70-130	Pass	
Bromobenzene	%	102			70-130	Pass	
Bromochloromethane	%	101			70-130	Pass	
Bromodichloromethane	%	101			70-130	Pass	
Bromoform	%	99			70-130	Pass	
Bromomethane	%	92			70-130	Pass	
Carbon disulfide	%	96			70-130	Pass	
Carbon Tetrachloride	%	97			70-130	Pass	
Chlorobenzene	%	98			70-130	Pass	
Chloroethane	%	100			70-130	Pass	
Chloroform	%	99			70-130	Pass	
Chloromethane	%	92			70-130	Pass	
cis-1.2-Dichloroethene	%	98			70-130	Pass	
cis-1.3-Dichloropropene	%	84			70-130	Pass	
Dibromochloromethane	%	100			70-130	Pass	
Dibromomethane	%	101			70-130	Pass	
Dichlorodifluoromethane	%	88			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	
Iodomethane	%	106			70-130	Pass	
Isopropyl benzene (Cumene)	%	97			70-130	Pass	
m&p-Xylenes	%	98			70-130	Pass	
Methylene Chloride	%	122			70-130	Pass	
o-Xylene	%	99			70-130	Pass	
Styrene	%	96			70-130	Pass	

Test				Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Tetrachloroethene				%	98		70-130	Pass	
Toluene				%	100		70-130	Pass	
trans-1,2-Dichloroethene				%	98		70-130	Pass	
trans-1,3-Dichloropropene				%	85		70-130	Pass	
Trichloroethene				%	99		70-130	Pass	
Trichlorofluoromethane				%	97		70-130	Pass	
Vinyl chloride				%	97		70-130	Pass	
Xylenes - Total				%	98		70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
Naphthalene				%	97		70-130	Pass	
TRH C6-C10				%	109		70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
TRH >C10-C16				%	89		70-130	Pass	
LCS - % Recovery									
Semivolatile Organics									
1,2,4-Trichlorobenzene				%	100		70-130	Pass	
1,4-Dichlorobenzene				%	100		70-130	Pass	
2-Chlorophenol				%	100		30-130	Pass	
2,4-Dinitrotoluene				%	100		70-130	Pass	
4-Chloro-3-methylphenol				%	100		30-130	Pass	
Acenaphthene				%	100		70-130	Pass	
N-Nitrosodipropylamine				%	100		70-130	Pass	
Pentachlorophenol				%	75		30-130	Pass	
Phenol				%	50		30-130	Pass	
Pyrene				%	100		70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Antimony				%	80		70-130	Pass	
Arsenic (filtered)				%	98		70-130	Pass	
Cadmium (filtered)				%	97		70-130	Pass	
Chromium (filtered)				%	102		70-130	Pass	
Copper (filtered)				%	105		70-130	Pass	
Lead (filtered)				%	108		70-130	Pass	
Mercury (filtered)				%	97		70-130	Pass	
Nickel (filtered)				%	101		70-130	Pass	
Zinc (filtered)				%	96		70-130	Pass	
LCS - % Recovery									
Alkali Metals									
Potassium				%	91		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Ammonia (as N)	M17-Ap15958	NCP	%	89			70-130	Pass	
Nitrate (as N)	M17-Ap15958	NCP	%	84			70-130	Pass	
Spike - % Recovery									
				Result 1					
BTEX									
Benzene	S17-Ap15269	CP	%	97			70-130	Pass	
Toluene	S17-Ap15269	CP	%	95			70-130	Pass	
Ethylbenzene	S17-Ap15269	CP	%	92			70-130	Pass	
m&p-Xylenes	S17-Ap15269	CP	%	90			70-130	Pass	
o-Xylene	S17-Ap15269	CP	%	93			70-130	Pass	
Xylenes - Total	S17-Ap15269	CP	%	91			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Volatile Organics				Result 1					
Naphthalene	S17-Ap15269	CP	%	101			70-130	Pass	
1.1-Dichloroethane	S17-Ap15269	CP	%	100			70-130	Pass	
1.1-Dichloroethene	S17-Ap15269	CP	%	93			70-130	Pass	
1.1.1-Trichloroethane	S17-Ap15269	CP	%	100			70-130	Pass	
1.1.1.2-Tetrachloroethane	S17-Ap15269	CP	%	98			70-130	Pass	
1.1.2-Trichloroethane	S17-Ap15269	CP	%	101			70-130	Pass	
1.1.2.2-Tetrachloroethane	S17-Ap15269	CP	%	102			70-130	Pass	
1.2-Dibromoethane	S17-Ap15269	CP	%	103			70-130	Pass	
1.2-Dichlorobenzene	S17-Ap15269	CP	%	92			70-130	Pass	
1.2-Dichloroethane	S17-Ap15269	CP	%	100			70-130	Pass	
1.2-Dichloropropane	S17-Ap15269	CP	%	99			70-130	Pass	
1.2.3-Trichloropropane	S17-Ap15269	CP	%	107			70-130	Pass	
1.2.4-Trimethylbenzene	S17-Ap15269	CP	%	89			70-130	Pass	
1.3-Dichlorobenzene	S17-Ap15269	CP	%	88			70-130	Pass	
1.3-Dichloropropane	S17-Ap15269	CP	%	103			70-130	Pass	
1.3.5-Trimethylbenzene	S17-Ap15269	CP	%	89			70-130	Pass	
1.4-Dichlorobenzene	S17-Ap15269	CP	%	87			70-130	Pass	
2-Butanone (MEK)	S17-Ap15269	CP	%	106			70-130	Pass	
2-Propanone (Acetone)	S17-Ap15269	CP	%	123			70-130	Pass	
4-Chlorotoluene	S17-Ap15269	CP	%	88			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S17-Ap15269	CP	%	116			70-130	Pass	
Allyl chloride	S17-Ap15269	CP	%	85			70-130	Pass	
Bromobenzene	S17-Ap15269	CP	%	93			70-130	Pass	
Bromochloromethane	S17-Ap15269	CP	%	102			70-130	Pass	
Bromodichloromethane	S17-Ap15269	CP	%	98			70-130	Pass	
Bromoform	S17-Ap15269	CP	%	104			70-130	Pass	
Bromomethane	S17-Ap15269	CP	%	85			70-130	Pass	
Carbon disulfide	S17-Ap15269	CP	%	80			70-130	Pass	
Carbon Tetrachloride	S17-Ap15269	CP	%	98			70-130	Pass	
Chlorobenzene	S17-Ap15269	CP	%	94			70-130	Pass	
Chloroethane	S17-Ap15269	CP	%	95			70-130	Pass	
Chloroform	S17-Ap15269	CP	%	100			70-130	Pass	
Chloromethane	S17-Ap15269	CP	%	88			70-130	Pass	
cis-1.2-Dichloroethene	S17-Ap15269	CP	%	97			70-130	Pass	
cis-1.3-Dichloropropene	S17-Ap15269	CP	%	83			70-130	Pass	
Dibromochloromethane	S17-Ap15269	CP	%	102			70-130	Pass	
Dibromomethane	S17-Ap15269	CP	%	103			70-130	Pass	
Dichlorodifluoromethane	S17-Ap15269	CP	%	71			70-130	Pass	
Iodomethane	S17-Ap15269	CP	%	92			70-130	Pass	
Isopropyl benzene (Cumene)	S17-Ap15269	CP	%	90			70-130	Pass	
Methylene Chloride	S17-Ap15269	CP	%	98			70-130	Pass	
Styrene	S17-Ap15269	CP	%	88			70-130	Pass	
Tetrachloroethene	S17-Ap15269	CP	%	86			70-130	Pass	
trans-1.2-Dichloroethene	S17-Ap15269	CP	%	88			70-130	Pass	
trans-1.3-Dichloropropene	S17-Ap15269	CP	%	81			70-130	Pass	
Trichloroethene	S17-Ap15269	CP	%	92			70-130	Pass	
Trichlorofluoromethane	S17-Ap15269	CP	%	92			70-130	Pass	
Vinyl chloride	S17-Ap15269	CP	%	83			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Antimony	M17-Ap17926	NCP	%	81			70-130	Pass	
Arsenic (filtered)	M17-Ap14853	NCP	%	105			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cadmium (filtered)	S17-Ap11112	NCP	%	101			70-130	Pass	
Chromium (filtered)	S17-Ap11112	NCP	%	120			70-130	Pass	
Copper (filtered)	S17-Ap14271	NCP	%	113			70-130	Pass	
Lead (filtered)	M17-Ap14853	NCP	%	88			70-130	Pass	
Mercury (filtered)	S17-Ap14271	NCP	%	78			70-130	Pass	
Nickel (filtered)	S17-Ap11112	NCP	%	95			70-130	Pass	
Zinc (filtered)	S17-Ap11112	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Alkali Metals				Result 1					
Potassium	P17-Ap07626	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S17-Ap15270	CP	%	120			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S17-Ap15270	CP	%	100			70-130	Pass	
Toluene	S17-Ap15270	CP	%	102			70-130	Pass	
Ethylbenzene	S17-Ap15270	CP	%	106			70-130	Pass	
m&p-Xylenes	S17-Ap15270	CP	%	113			70-130	Pass	
o-Xylene	S17-Ap15270	CP	%	115			70-130	Pass	
Xylenes - Total	S17-Ap15270	CP	%	113			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S17-Ap15270	CP	%	118			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
Naphthalene	S17-Ap15270	CP	%	77			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S17-Ap15272	CP	%	91			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S17-Ap15272	CP	%	95			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	M17-Ap15958	NCP	mg/L	0.45	0.41	7.0	30%	Pass	
Nitrate (as N)	M17-Ap15958	NCP	mg/L	0.75	0.75	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ap15269	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C10	S17-Ap15269	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Antimony	S17-Ap15269	CP	mg/L	0.047	0.047	<1	30%	Pass	
Arsenic (filtered)	M17-Ap13844	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	M17-Ap13844	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	M17-Ap13844	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	M17-Ap13844	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	M17-Ap13844	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S17-Ap11111	NCP	mg/L	0.0002	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S17-Ap11111	NCP	mg/L	0.009	0.002	1.0	30%	Pass	
Zinc (filtered)	S17-Ap11111	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Duplicate								
Alkali Metals				Result 1	Result 2	RPD		
Potassium	S17-Ja09185	NCP	mg/L	1.4	1.4	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	S17-Ap15270	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass
o-Xylene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total	S17-Ap15270	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Naphthalene	S17-Ap15270	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass
1.1-Dichloroethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1-Dichloroethene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.1-Trichloroethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.2-Trichloroethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dibromoethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichlorobenzene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloroethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloropropane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.3-Trichloropropane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.4-Trimethylbenzene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichlorobenzene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichloropropane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3.5-Trimethylbenzene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.4-Dichlorobenzene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
2-Butanone (MEK)	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
2-Propanone (Acetone)	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Chlorotoluene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Allyl chloride	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromobenzene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromochloromethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromodichloromethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromoform	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromomethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon disulfide	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon Tetrachloride	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chlorobenzene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroform	S17-Ap15270	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Chloromethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1.2-Dichloroethene	S17-Ap15270	CP	mg/L	0.021	0.023	9.0	30%	Pass
cis-1.3-Dichloropropene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromochloromethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromomethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dichlorodifluoromethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Iodomethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Methylene Chloride	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Styrene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Tetrachloroethene	S17-Ap15270	CP	mg/L	0.051	0.059	14	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
trans-1,2-Dichloroethene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,3-Dichloropropene	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichloroethene	S17-Ap15270	CP	mg/L	0.014	0.016	15	30%	Pass
Trichlorofluoromethane	S17-Ap15270	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	S17-Ap15270	CP	mg/L	0.006	0.007	8.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S17-Ap15272	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH C15-C28	S17-Ap15272	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH C29-C36	S17-Ap15272	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S17-Ap15272	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34	S17-Ap15272	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH >C34-C40	S17-Ap15272	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass

Comments

Perchlorate analysed by: NMI, NATA accreditation number 2474, report reference RN1156238

2,4,6-Trinitrophenol analysed by: Eurofins | Umwelt, DAkkS accreditation D-PL-14078-01-00, report reference AR-17-AN-007826-01

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Nibha Vaidya	Analytical Services Manager
Alex Petridis	Senior Analyst-Metal (VIC)
Alex Petridis	Senior Analyst-Organic (VIC)
Huong Le	Senior Analyst-Inorganic (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Ryan Hamilton	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)



Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Appendix G – Site Photographs

Selected Site Photographs



Photograph 1:

Northern part of the site looking west, construction of the temporary pop up school demountables.



Photograph 2:

Northern part of the site looking south, asbestos controls for construction crews conducting trenching for service laying.



Photograph 3:

Northern part of the site looking west, view of temporary carpark for pop-up school construction crew.



Photograph 4:

View of staff carpark looking south.



Photograph 5:
Grassed playground within school grounds.



Photograph 6:
Basketball court and undercover area within school grounds. School buildings/facilities in view in the background.



Photograph 7:
Main school entrance on the eastern side of the site, adjacent Park Road.



Photograph 8:
Vegetable garden in the south eastern section of the site.



Photograph 9:
Shaded lunch area, view of playground and bus stop in the background looking north.



Photograph 10:
Bonded ACM fragment identified within test pit. Fill building materials excavated from test pit in the background (onto black plastic material).



Photograph 11:

Bonded ACM fragment observed on the top of the soil surface within the grassed playground area of the site – testing location APS.

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Appendix H – Dangerous Goods Search



SafeWork NSW

Locked Bag 2906, Lisarow NSW 2252

Customer Experience 13 10 50

ABN 81 913 830 179 | www.safework.nsw.gov.au

Our Ref: D17/063579
Your Ref: Alex Ructtinger

Attention: Alex Ructtinger
Coffey Services Australia Pty Ltd
Level 19
Tower B
799 Pacific Hwy
Chatswood NSW 2015

Dear Mr Ructtinger,

RE SITE: various lots Park Rd Alexandria NSW

I refer to your site search request received by SafeWork NSW on 24 January 2017 requesting information on Storage of Hazardous Chemicals for the above site.

A search of the records held by SafeWork NSW has not located any records pertaining to the above mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email licensing@safework.nsw.gov.au

Yours sincerely,


Customer Service Officer
Customer Experience - Operations
SafeWork NSW

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**Appendix I –
95% Upper Confidence Limit Results**

General UCL Statistics for Full Data Sets			
User Selected Options			
From File	WorkSheet.wst		
Full Precision	OFF		
Confidence Coefficient	95%		
Number of Bootstrap Operations	2000		
C0			
General Statistics			
Number of Valid Observations	28	Number of Distinct Observations	25
Raw Statistics		Log-transformed Statistics	
Minimum	3	Minimum of Log Data	1.099
Maximum	850	Maximum of Log Data	6.745
Mean	87.32	Mean of log Data	3.84
Median	62	SD of log Data	1.132
SD	154.7		
Coefficient of Variation	1.771		
Skewness	4.746		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.419	Shapiro Wilk Test Statistic	0.947
Shapiro Wilk Critical Value	0.924	Shapiro Wilk Critical Value	0.924
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	137.1	95% H-UCL	156.4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	178.7
95% Adjusted-CLT UCL (Chen-1995)	163.4	97.5% Chebyshev (MVUE) UCL	219.1
95% Modified-t UCL (Johnson-1978)	141.5	99% Chebyshev (MVUE) UCL	298.4
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.85	Data appear Lognormal at 5% Significance Level	
Theta Star	102.7		
MLE of Mean	87.32		
MLE of Standard Deviation	94.71		
nu star	47.6		
Approximate Chi Square Value (.05)	32.77	Nonparametric Statistics	
Adjusted Level of Significance	0.0404	95% CLT UCL	135.4
Adjusted Chi Square Value	32.01	95% Jackknife UCL	137.1
		95% Standard Bootstrap UCL	134.4
Anderson-Darling Test Statistic	1.034	95% Bootstrap-t UCL	243.1
Anderson-Darling 5% Critical Value	0.777	95% Hall's Bootstrap UCL	332.3
Kolmogorov-Smirnov Test Statistic	0.176	95% Percentile Bootstrap UCL	143.8
Kolmogorov-Smirnov 5% Critical Value	0.171	95% BCA Bootstrap UCL	172
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	214.7
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL	269.9
95% Approximate Gamma UCL	126.9	99% Chebyshev(Mean, Sd) UCL	378.2
95% Adjusted Gamma UCL	129.9		
Potential UCL to Use		Use 95% H-UCL	156.4

ProUCL computes and outputs H-statistic based UCLs for historical reasons only.												
H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.												
It is therefore recommended to avoid the use of H-statistic based 95% UCLs.												
Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.												
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.												
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)												
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.												

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**Appendix J –
Groundwater Sampling Records**

DATE: 19-4-17

SOP – Decontamination of Sampling Equipment

Notes: 1 Indicate in 'Comments' column if measured Total Well Depth differs from log. 2 Do not attempt to sniff the monitoring well to detect any odours, only note any apparent odour when the well cap is opened

Groundwater Sampling Form (B) – Micro Purge

WELL ID: MW1
DIAMETER: 50 mm
WELL DEPTH: 5.28 m
SCREEN INTERVAL: 13 ft to 103 ft m below TOC
STICK-UP: 4 ft mm

Meter ID: W4488

WERE METALS FIELD FILTER

λ	λ
z	z

Unfiltered samples

not be put into a preserve

TRIPPLICATE COLLECTED:

Y
☐
Z
☒

TRIPPLICATE ID:

Notes:

1 Ensure minimum 3 'equipment' volumes including volume of pump bladder, flow cell and tubing

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