

Eurofins Environment Testing Australia Pty Ltd
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AUSTRALIEN

Person in charge Dr. D. Stegemann
ASM Dr. D. Stegemann

Report date 05.09.2016

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Analytical report AR-16-GF-034075-01



Sample Code 710-2016-19136011

Reference	Soil
Sample sender	Mr. Onur Mehmet
Reception date time	29.08.2016
Transport by	DHL
Client Purchase order nr.	513007
Purchase order date	25.08.2016
Client sample code	Au22869
Packaging	glass
Number of containers	1
Reception temperature	room temperature
End analysis	05.09.2016

Test results

CYP07	dry matter (°) (#)		
Method	EC 152/2009, , Gravimetry		
dry residue		76.8	%
CY111	PCDD/F (17) ~ environment (°) (#)		
Method	Internal method, GLS DF 100, GC-HRMS		
2,3,7,8-TetraCDD		< 0.18	ng/kg dw
1,2,3,7,8-PentaCDD		1.67	ng/kg dw
1,2,3,4,7,8-HexaCDD		2.64	ng/kg dw
1,2,3,6,7,8-HexaCDD		5.49	ng/kg dw
1,2,3,7,8,9-HexaCDD		9.84	ng/kg dw
1,2,3,4,6,7,8-HeptaCDD		158	ng/kg dw
OctaCDD		3330	ng/kg dw

2,3,7,8-TetraCDF	< 0.33	ng/kg dw
1,2,3,7,8-PentaCDF	< 0.45	ng/kg dw
2,3,4,7,8-PentaCDF	< 0.45	ng/kg dw
1,2,3,4,7,8-HexaCDF	< 0.41	ng/kg dw
1,2,3,6,7,8-HexaCDF	< 0.41	ng/kg dw
1,2,3,7,8,9-HexaCDF	< 0.41	ng/kg dw
2,3,4,6,7,8-HexaCDF	< 0.41	ng/kg dw
1,2,3,4,6,7,8-HeptaCDF	< 0.53	ng/kg dw
1,2,3,4,7,8,9-HeptaCDF	< 0.39	ng/kg dw
OctaCDF	< 3.3	ng/kg dw
WHO(1998)-PCDD/F TEQ (lower-bound)	5.39	ng/kg dw
WHO(1998)-PCDD/F TEQ (upper-bound)	6.02	ng/kg dw
WHO(2005)-PCDD/F TEQ (lower-bound)	6.05	ng/kg dw
WHO(2005)-PCDD/F TEQ (upper-bound)	6.59	ng/kg dw
I-TEQ (NATO/CCMS) (lower-bound)	7.54	ng/kg dw
I-TEQ (NATO/CCMS) (upper-bound)	8.18	ng/kg dw

CY043 PCB ~ dioxin-like / 12 WHO ~ environment (°) (#)

Method Internal method, GLS DF 100, GC-HRMS

PCB 77	< 3.7	ng/kg dw
PCB 81	< 0.80	ng/kg dw
PCB 105	< 8.0	ng/kg dw
PCB 114	< 0.96	ng/kg dw
PCB 118	< 29	ng/kg dw
PCB 123	< 0.82	ng/kg dw
PCB 126	< 1.0	ng/kg dw
PCB 156	< 4.5	ng/kg dw
PCB 157	< 0.92	ng/kg dw
PCB 167	< 2.2	ng/kg dw
PCB 169	< 2.4	ng/kg dw
PCB 189	< 0.82	ng/kg dw
WHO(1998)-PCB TEQ (lower-bound)	ND	ng/kg dw
WHO(1998)-PCB TEQ (upper-bound)	0.136	ng/kg dw
WHO(2005)-PCB TEQ (lower-bound)	ND	ng/kg dw
WHO(2005)-PCB TEQ (upper-bound)	0.180	ng/kg dw

(°) = The test was performed at the laboratory site: Am Neuländer Gewerbepark 4

(#) = Eurofins GfA Lab Service GmbH (Hamburg) is accredited for this test.

< - Concentration below the indicated limit of quantification (LOQ)

ND - not determined since none of the corresponding congeners was above the LOQ

The results of examination refer exclusively to the checked samples.
Duplicates - even in parts - must be authorized by the test laboratory in written form.
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Durch die Deutsche Akkreditierungsstelle
GmbH (DAKKS) akkreditiertes Prüflaboratorium

DIN EN ISO/IEC 17025:2005

Die Akkreditierung gilt nur für die in der Urkunde
aufgeführten Prüfverfahren



Analytical Services Manager, ASM (Dieter Stegemann)

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AUSTRALIEN

Person in charge Dr. D. Stegemann
ASM Dr. D. Stegemann

Report date 01.09.2016

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Analytical report AR-16-GF-033703-01



Sample Code 710-2016-19136012

Reference	Soil
Sample sender	Mr. Onur Mehmet
Reception date time	29.08.2016
Transport by	DHL
Client Purchase order nr.	513007
Purchase order date	25.08.2016
Client sample code	Au22870
Packaging	glass
Number of containers	1
Reception temperature	room temperature
End analysis	01.09.2016

Test results

CYP07	dry matter (°) (#)		
Method	EC 152/2009, , Gravimetry		
dry residue		52.8	%
CY111	PCDD/F (17) ~ environment (°) (#)		
Method	Internal method, GLS DF 100, GC-HRMS		
2,3,7,8-TetraCDD		< 0.65	ng/kg dw
1,2,3,7,8-PentaCDD		< 0.86	ng/kg dw
1,2,3,4,7,8-HexaCDD		< 1.7	ng/kg dw
1,2,3,6,7,8-HexaCDD		< 1.7	ng/kg dw
1,2,3,7,8,9-HexaCDD		1.91	ng/kg dw
1,2,3,4,6,7,8-HeptaCDD		62.1	ng/kg dw
OctaCDD		15600	ng/kg dw

2,3,7,8-TetraCDF	< 1.2	ng/kg dw
1,2,3,7,8-PentaCDF	< 1.6	ng/kg dw
2,3,4,7,8-PentaCDF	< 1.6	ng/kg dw
1,2,3,4,7,8-HexaCDF	< 1.4	ng/kg dw
1,2,3,6,7,8-HexaCDF	< 1.4	ng/kg dw
1,2,3,7,8,9-HexaCDF	< 1.4	ng/kg dw
2,3,4,6,7,8-HexaCDF	< 1.4	ng/kg dw
1,2,3,4,6,7,8-HeptaCDF	< 1.9	ng/kg dw
1,2,3,4,7,8,9-HeptaCDF	< 1.4	ng/kg dw
OctaCDF	< 12	ng/kg dw
WHO(1998)-PCDD/F TEQ (lower-bound)	2.37	ng/kg dw
WHO(1998)-PCDD/F TEQ (upper-bound)	5.83	ng/kg dw
WHO(2005)-PCDD/F TEQ (lower-bound)	5.50	ng/kg dw
WHO(2005)-PCDD/F TEQ (upper-bound)	8.61	ng/kg dw
I-TEQ (NATO/CCMS) (lower-bound)	16.4	ng/kg dw
I-TEQ (NATO/CCMS) (upper-bound)	19.5	ng/kg dw

CY043 PCB ~ dioxin-like / 12 WHO ~ environment (°) (#)

Method Internal method, GLS DF 100, GC-HRMS

PCB 77	< 13	ng/kg dw
PCB 81	< 2.8	ng/kg dw
PCB 105	< 28	ng/kg dw
PCB 114	< 3.4	ng/kg dw
PCB 118	181	ng/kg dw
PCB 123	3.15	ng/kg dw
PCB 126	< 3.7	ng/kg dw
PCB 156	39.9	ng/kg dw
PCB 157	< 3.2	ng/kg dw
PCB 167	20.0	ng/kg dw
PCB 169	< 8.6	ng/kg dw
PCB 189	< 2.9	ng/kg dw
WHO(1998)-PCB TEQ (lower-bound)	0.0386	ng/kg dw
WHO(1998)-PCB TEQ (upper-bound)	0.500	ng/kg dw
WHO(2005)-PCB TEQ (lower-bound)	0.00733	ng/kg dw
WHO(2005)-PCB TEQ (upper-bound)	0.637	ng/kg dw

(°) = The test was performed at the laboratory site: Am Neuländer Gewerbepark 4

(#) = Eurofins GfA Lab Service GmbH (Hamburg) is accredited for this test.

< - Concentration below the indicated limit of quantification (LOQ)

The results of examination refer exclusively to the checked samples.
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aufgeführten Prüfverfahren



Analytical Services Manager, ASM (Dieter Stegemann)

Certificate of Analysis

Jacobs Group (Australia) P/L NSW
Level 4, 100 Christie St
St Leonards
NSW 2065



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
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to Australian/national standards.

Attention: Derek Langgons

Report 513300-W
Project name RHODES EAST
Project ID IA102900
Received Date Aug 25, 2016

Client Sample ID			MW01 Water	MW03 Water	MW04 Water	MW07 Water
Sample Matrix			S16-Au24726	S16-Au24727	S16-Au24728	S16-Au24729
Eurofins mgt Sample No.			Aug 24, 2016	Aug 24, 2016	Aug 24, 2016	Aug 25, 2016
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 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	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	97	95	96	98
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	0.006	0.005	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW01 Water	MW03 Water	MW04 Water	MW07 Water
Sample Matrix			S16-Au24726	S16-Au24727	S16-Au24728	S16-Au24729
Eurofins mgt Sample No.			Aug 24, 2016	Aug 24, 2016	Aug 24, 2016	Aug 25, 2016
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Fluorobenzene (surr.)	1	%	81	80	87	89
4-Bromofluorobenzene (surr.)	1	%	97	95	96	98
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	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Phenols (Halogenated)						
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2,4-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2,4,5-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachlorophenols - Total	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Total Halogenated Phenol*	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			MW01 Water	MW03 Water	MW04 Water	MW07 Water
Sample Matrix			S16-Au24726	S16-Au24727	S16-Au24728	S16-Au24729
Eurofins mgt Sample No.			Aug 24, 2016	Aug 24, 2016	Aug 24, 2016	Aug 25, 2016
Date Sampled						
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2-Nitrophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2.4-Dimethylphenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2.4-Dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
4-Nitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Dinoseb	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol-d6 (surr.)	1	%	92	67	85	70
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
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.002	0.001	0.001	0.003
Cadmium (filtered)	0.0002	mg/L	0.0003	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Copper (filtered)	0.001	mg/L	0.010	0.002	0.004	< 0.001
Lead (filtered)	0.001	mg/L	0.009	0.005	< 0.001	0.002
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.066	0.010	0.010	0.011
Zinc (filtered)	0.001	mg/L	0.28	0.014	0.011	0.041

Client Sample ID			MW09 Water	MW12 Water	MW13 Water	MW14 Water
Sample Matrix			S16-Au24730	S16-Au24731	S16-Au24732	S16-Au24733
Eurofins mgt Sample No.			Aug 25, 2016	Aug 25, 2016	Aug 25, 2016	Aug 25, 2016
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 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	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	101	94	95	94

Client Sample ID			MW09 Water	MW12 Water	MW13 Water	MW14 Water
Sample Matrix			S16-Au24730	S16-Au24731	S16-Au24732	S16-Au24733
Eurofins mgt Sample No.			Aug 25, 2016	Aug 25, 2016	Aug 25, 2016	Aug 25, 2016
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	0.011	0.047	0.005
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW09 Water	MW12 Water	MW13 Water	MW14 Water
Sample Matrix			S16-Au24730	S16-Au24731	S16-Au24732	S16-Au24733
Eurofins mgt Sample No.			Aug 25, 2016	Aug 25, 2016	Aug 25, 2016	Aug 25, 2016
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Fluorobenzene (surr.)	1	%	89	86	80	85
4-Bromofluorobenzene (surr.)	1	%	101	94	95	94
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	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Phenols (Halogenated)						
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2,4-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2,4,5-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachlorophenols - Total	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Total Halogenated Phenol*	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2-Nitrophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2,4-Dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
4-Nitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Dinoseb	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol-d6 (surr.)	1	%	77	104	39	49
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
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	0.003	< 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	< 0.001
Copper (filtered)	0.001	mg/L	< 0.001	0.016	0.002	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	0.002	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.006	0.074	0.004	0.055
Zinc (filtered)	0.001	mg/L	0.007	0.073	0.11	0.024

Client Sample ID			QC01_250816	R01_250816	TB160815-07	TS160815-07
Sample Matrix			Water	Water	Water	Water
Eurofins mgt Sample No.			S16-Au24734	S16-Au24735	S16-Au24736	S16-Au24737
Date Sampled			Aug 25, 2016	Aug 25, 2016	Aug 15, 2016	Aug 15, 2016
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	< 0.02	< 0.02	75%
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	-	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	-	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	-	-
TRH C10-36 (Total)	0.1	mg/L	< 0.1	< 0.1	-	-
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	90%
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	94%
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	86%
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	94%
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	96%
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	95%
4-Bromofluorobenzene (surr.)	1	%	79	81	97	100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	0.02	mg/L	-	-	< 0.02	77%
Volatile Organics						
Naphthalene ^{N02}	0.01	mg/L	-	-	< 0.01	104%
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	-	-
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	-	-
Benzene	0.001	mg/L	< 0.001	< 0.001	-	-
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Bromoform	0.001	mg/L	< 0.001	< 0.001	-	-
Bromomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	-	-
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-

Client Sample ID			QC01_250816	R01_250816	TB160815-07	TS160815-07
Sample Matrix			Water	Water	Water	Water
Eurofins mgt Sample No.			S16-Au24734	S16-Au24735	S16-Au24736	S16-Au24737
Date Sampled			Aug 25, 2016	Aug 25, 2016	Aug 15, 2016	Aug 15, 2016
Test/Reference	LOR	Unit				
Volatile Organics						
Chloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
Chloroform	0.005	mg/L	< 0.005	< 0.005	-	-
Chloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Iodomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	-	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	-
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	-	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	-
Styrene	0.001	mg/L	< 0.001	< 0.001	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
Toluene	0.001	mg/L	< 0.001	< 0.001	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	-
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	-	-
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	-	-
Fluorobenzene (surr.)	1	%	70	68	-	-
4-Bromofluorobenzene (surr.)	1	%	79	81	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	-	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	-	-
2.4-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	-	-
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	-	-
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	-	-
2.6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	-	-
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	-	-
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	-	-
Tetrachlorophenols - Total	0.03	mg/L	< 0.03	< 0.03	-	-
Total Halogenated Phenol*	0.01	mg/L	< 0.01	< 0.01	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	0.1	mg/L	< 0.1	< 0.1	-	-
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	< 0.03	-	-
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	< 0.003	-	-
2-Nitrophenol	0.01	mg/L	< 0.01	< 0.01	-	-
2.4-Dimethylphenol	0.003	mg/L	< 0.003	< 0.003	-	-
2.4-Dinitrophenol	0.03	mg/L	< 0.03	< 0.03	-	-
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	-	-
4-Nitrophenol	0.03	mg/L	< 0.03	< 0.03	-	-

Client Sample ID			QC01_250816	R01_250816	TB160815-07	TS160815-07
Sample Matrix			Water	Water	Water	Water
Eurofins mgt Sample No.			S16-Au24734	S16-Au24735	S16-Au24736	S16-Au24737
Date Sampled			Aug 25, 2016	Aug 25, 2016	Aug 15, 2016	Aug 15, 2016
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
Dinoseb	0.1	mg/L	< 0.1	< 0.1	-	-
Phenol	0.003	mg/L	< 0.003	< 0.003	-	-
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1	< 0.1	-	-
Phenol-d6 (surr.)	1	%	58	60	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	-	-
Heavy Metals						
Arsenic	0.001	mg/L	-	< 0.001	-	-
Arsenic (filtered)	0.001	mg/L	< 0.001	-	-	-
Cadmium	0.0002	mg/L	-	< 0.0002	-	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	-	-	-
Chromium	0.001	mg/L	-	< 0.001	-	-
Chromium (filtered)	0.001	mg/L	< 0.001	-	-	-
Copper	0.001	mg/L	-	< 0.001	-	-
Copper (filtered)	0.001	mg/L	< 0.001	-	-	-
Lead	0.001	mg/L	-	< 0.001	-	-
Lead (filtered)	0.001	mg/L	< 0.001	-	-	-
Mercury	0.0001	mg/L	-	< 0.0001	-	-
Mercury (filtered)	0.0001	mg/L	< 0.0001	-	-	-
Nickel	0.001	mg/L	-	< 0.001	-	-
Nickel (filtered)	0.001	mg/L	0.007	-	-	-
Zinc	0.005	mg/L	-	< 0.005	-	-
Zinc (filtered)	0.001	mg/L	0.007	-	-	-

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	Aug 26, 2016	14 Day
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: TRH C6-C36 - LTM-ORG-2010	Melbourne	Aug 31, 2016	7 Day
BTEX - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Aug 26, 2016	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Aug 26, 2016	7 Day
Volatile Organics - Method: E016 Volatile Organic Compounds (VOC)	Sydney	Aug 26, 2016	7 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Melbourne	Aug 26, 2016	7 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Melbourne	Aug 31, 2016	7 Day
Metals M8 - Method: LTM-MET-3040 Metals in Waters by ICP-MS	Melbourne	Aug 26, 2016	28 Days
Metals M8 filtered - Method: LTM-MET-3040 Metals in Waters by ICP-MS	Melbourne	Aug 26, 2016	28 Day
Phenols (IWRG 621)			
Phenols (Halogenated) - Method: USEPA 8270 Phenols	Melbourne	Aug 31, 2016	7 Day
Phenols (non-Halogenated) - Method: USEPA 8270 Phenols	Melbourne	Aug 31, 2016	7 Day

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NSW 2065
Project Name: RHODES EAST
Project ID: IA102900

Order No.:
Report #: 513300
Phone: 02 9928 2100
Fax: 02 9928 2504

Received: Aug 25, 2016 7:00 PM
Due: Sep 2, 2016
Priority: 5 Day
Contact Name: Derek Langgons

Eurofins | mgt Analytical Services Manager : Andrew Black

Sample Detail						Metals M8	Metals M8 filtered	Phenols (IWRG 621)	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	BTEX and Volatile TRH
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	MW01	Aug 24, 2016		Water	S16-Au24726		X	X	X	X	X	
2	MW03	Aug 24, 2016		Water	S16-Au24727		X	X	X	X	X	
3	MW04	Aug 24, 2016		Water	S16-Au24728		X	X	X	X	X	
4	MW07	Aug 25, 2016		Water	S16-Au24729		X	X	X	X	X	
5	MW09	Aug 25, 2016		Water	S16-Au24730		X	X	X	X	X	
6	MW12	Aug 25, 2016		Water	S16-Au24731		X	X	X	X	X	
7	MW13	Aug 25, 2016		Water	S16-Au24732		X	X	X	X	X	
8	MW14	Aug 25, 2016		Water	S16-Au24733		X	X	X	X	X	
9	QC01_250816	Aug 25, 2016		Water	S16-Au24734		X	X	X	X	X	
10	R01_250816	Aug 25, 2016		Water	S16-Au24735	X		X	X	X	X	

Company Name: Jacobs Group (Australia) P/L NSW
Address: Level 4, 100 Christie St
St Leonards
NSW 2065
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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
11	TB160815-07	Aug 15, 2016		Water	S16-Au24736							X
12	TS160815-07	Aug 15, 2016		Water	S16-Au24737							X
Test Counts						1	9	10	10	10	10	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							
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	
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	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	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	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2.4-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2.4.5-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.4.6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2.6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Tetrachlorophenols - Total	mg/L	< 0.03			0.03	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/L	< 0.1			0.1	Pass	
2-Methyl-4.6-dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
2-Nitrophenol	mg/L	< 0.01			0.01	Pass	
2.4-Dimethylphenol	mg/L	< 0.003			0.003	Pass	
2.4-Dinitrophenol	mg/L	< 0.03			0.03	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
4-Nitrophenol	mg/L	< 0.03			0.03	Pass	
Dinoseb	mg/L	< 0.1			0.1	Pass	
Phenol	mg/L	< 0.003			0.003	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							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	mg/L	< 0.0001			0.0001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Zinc (filtered)	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	92			70-130	Pass	
TRH C10-C14	%	99			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	78			70-130	Pass	
Toluene	%	86			70-130	Pass	
Ethylbenzene	%	87			70-130	Pass	
m&p-Xylenes	%	88			70-130	Pass	
Xylenes - Total	%	88			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	%	88			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
Naphthalene	%	87			70-130	Pass	
1.1-Dichloroethene	%	79			70-130	Pass	
1.1.1-Trichloroethane	%	97			70-130	Pass	
1.2-Dichlorobenzene	%	90			70-130	Pass	
1.2-Dichloroethane	%	91			70-130	Pass	
Trichloroethene	%	76			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	89			30-130	Pass	
2.4-Dichlorophenol	%	56			30-130	Pass	
2.4.5-Trichlorophenol	%	57			30-130	Pass	
2.4.6-Trichlorophenol	%	57			30-130	Pass	
2.6-Dichlorophenol	%	100			30-130	Pass	
4-Chloro-3-methylphenol	%	58			30-130	Pass	
Pentachlorophenol	%	55			30-130	Pass	
Tetrachlorophenols - Total	%	55			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	57			30-130	Pass	
2-Methyl-4.6-dinitrophenol	%	57			30-130	Pass	
2-Methylphenol (o-Cresol)	%	85			30-130	Pass	
2-Nitrophenol	%	55			30-130	Pass	
2.4-Dimethylphenol	%	67			30-130	Pass	
2.4-Dinitrophenol	%	55			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	81			30-130	Pass	
4-Nitrophenol	%	77			30-130	Pass	
Dinoseb	%	48			30-130	Pass	
Phenol	%	59			30-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	99			70-130	Pass	
LCS - % Recovery							

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals										
Arsenic				%	89			80-120	Pass	
Arsenic (filtered)				%	89			80-120	Pass	
Cadmium				%	89			80-120	Pass	
Cadmium (filtered)				%	89			80-120	Pass	
Chromium				%	87			80-120	Pass	
Chromium (filtered)				%	87			80-120	Pass	
Copper				%	87			80-120	Pass	
Copper (filtered)				%	87			80-120	Pass	
Lead				%	87			80-120	Pass	
Lead (filtered)				%	87			80-120	Pass	
Mercury				%	104			75-125	Pass	
Mercury (filtered)				%	104			70-130	Pass	
Nickel				%	89			80-120	Pass	
Nickel (filtered)				%	89			80-120	Pass	
Zinc				%	87			80-120	Pass	
Zinc (filtered)				%	87			80-120	Pass	
Test	Lab Sample ID	QA Source		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1					
TRH C10-C14	B16-Au26214	NCP		%	93			70-130	Pass	
Spike - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					Result 1					
TRH >C10-C16	B16-Au26214	NCP		%	93			70-130	Pass	
Spike - % Recovery										
Phenols (Halogenated)					Result 1					
2-Chlorophenol	S16-Au24727	CP		%	117			30-130	Pass	
2,4-Dichlorophenol	S16-Au24727	CP		%	78			30-130	Pass	
2,4,5-Trichlorophenol	S16-Au24727	CP		%	77			30-130	Pass	
2,4,6-Trichlorophenol	S16-Au24727	CP		%	75			30-130	Pass	
2,6-Dichlorophenol	S16-Au24727	CP		%	114			30-130	Pass	
4-Chloro-3-methylphenol	S16-Au24727	CP		%	82			30-130	Pass	
Pentachlorophenol	S16-Au24727	CP		%	69			30-130	Pass	
Tetrachlorophenols - Total	S16-Au24727	CP		%	72			30-130	Pass	
Spike - % Recovery										
Phenols (non-Halogenated)					Result 1					
2-Cyclohexyl-4,6-dinitrophenol	S16-Au24727	CP		%	75			30-130	Pass	
2-Methyl-4,6-dinitrophenol	S16-Au24727	CP		%	45			30-130	Pass	
2-Methylphenol (o-Cresol)	S16-Au24727	CP		%	119			30-130	Pass	
2-Nitrophenol	S16-Au24727	CP		%	76			30-130	Pass	
2,4-Dimethylphenol	S16-Au24727	CP		%	106			30-130	Pass	
2,4-Dinitrophenol	S16-Au24727	CP		%	30			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	S16-Au24727	CP		%	117			30-130	Pass	
4-Nitrophenol	S16-Au24727	CP		%	68			30-130	Pass	
Dinoseb	S16-Au24727	CP		%	63			30-130	Pass	
Phenol	S16-Au24727	CP		%	106			30-130	Pass	
Spike - % Recovery										
Heavy Metals					Result 1					
Arsenic (filtered)	S16-Au24733	CP		%	92			70-130	Pass	
Cadmium (filtered)	S16-Au24733	CP		%	93			70-130	Pass	
Chromium (filtered)	S16-Au24733	CP		%	90			70-130	Pass	
Copper (filtered)	S16-Au24733	CP		%	92			70-130	Pass	
Lead (filtered)	S16-Au24733	CP		%	89			70-130	Pass	
Mercury (filtered)	S16-Au24733	CP		%	81			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel (filtered)	S16-Au24733	CP	%	80			70-130	Pass	
Zinc (filtered)	S16-Au24733	CP	%	92			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M16-Au23349	NCP	%	94			75-125	Pass	
Cadmium	M16-Au23349	NCP	%	91			75-125	Pass	
Chromium	M16-Au23349	NCP	%	90			75-125	Pass	
Copper	M16-Au23349	NCP	%	85			75-125	Pass	
Lead	M16-Au23349	NCP	%	88			75-125	Pass	
Mercury	M16-Au23349	NCP	%	89			70-130	Pass	
Nickel	M16-Au23349	NCP	%	89			75-125	Pass	
Zinc	B16-Ja11791	NCP	%	102			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S16-Au24562	NCP	%	95			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S16-Au24562	NCP	%	100			70-130	Pass	
Toluene	S16-Au24562	NCP	%	102			70-130	Pass	
Ethylbenzene	S16-Au24562	NCP	%	97			70-130	Pass	
m&p-Xylenes	S16-Au24562	NCP	%	106			70-130	Pass	
o-Xylene	S16-Au24562	NCP	%	109			70-130	Pass	
Xylenes - Total	S16-Au24562	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S16-Au24562	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
Naphthalene	S16-Au24562	NCP	%	125			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S16-Au24726	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S16-Au24726	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S16-Au24726	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
2-Propanone (Acetone)	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Chlorotoluene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Allyl chloride	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromobenzene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromochloromethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromodichloromethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromoform	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromomethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon disulfide	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon Tetrachloride	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chlorobenzene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroform	M16-Au26836	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Chloromethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1,2-Dichloroethene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1,3-Dichloropropene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromochloromethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromomethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dichlorodifluoromethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Iodomethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Methylene Chloride	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Styrene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Tetrachloroethene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,2-Dichloroethene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,3-Dichloropropene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichloroethene	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichlorofluoromethane	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	M16-Au26836	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	S16-Au24726	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass
2,4-Dichlorophenol	S16-Au24726	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass
2,4,5-Trichlorophenol	S16-Au24726	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass
2,4,6-Trichlorophenol	S16-Au24726	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass
2,6-Dichlorophenol	S16-Au24726	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass
4-Chloro-3-methylphenol	S16-Au24726	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass
Pentachlorophenol	S16-Au24726	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass
Tetrachlorophenols - Total	S16-Au24726	CP	mg/L	< 0.03	< 0.03	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	S16-Au24726	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	S16-Au24726	CP	mg/L	< 0.03	< 0.03	<1	30%	Pass
2-Methylphenol (o-Cresol)	S16-Au24726	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass
2-Nitrophenol	S16-Au24726	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass
2,4-Dimethylphenol	S16-Au24726	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass
2,4-Dinitrophenol	S16-Au24726	CP	mg/L	< 0.03	< 0.03	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	S16-Au24726	CP	mg/L	< 0.006	< 0.006	<1	30%	Pass
4-Nitrophenol	S16-Au24726	CP	mg/L	< 0.03	< 0.03	<1	30%	Pass
Dinoseb	S16-Au24726	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
Phenol	S16-Au24726	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S16-Au24726	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34	S16-Au24726	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH >C34-C40	S16-Au24726	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic (filtered)	S16-Au24733	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Cadmium (filtered)	S16-Au24733	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Chromium (filtered)	S16-Au24733	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Copper (filtered)	S16-Au24733	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Lead (filtered)	S16-Au24733	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Mercury (filtered)	S16-Au24733	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel (filtered)	S16-Au24733	CP	mg/L	0.055	0.054	2.0	30%	Pass
Zinc (filtered)	S16-Au24733	CP	mg/L	0.024	0.023	5.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M16-Au23349	NCP	mg/L	0.008	0.008	3.0	30%	Pass
Cadmium	M16-Au23349	NCP	mg/L	0.0003	0.0003	6.0	30%	Pass
Chromium	M16-Au23349	NCP	mg/L	0.009	0.009	2.0	30%	Pass
Copper	M16-Au23349	NCP	mg/L	0.028	0.027	2.0	30%	Pass
Lead	M16-Au23349	NCP	mg/L	0.017	0.017	1.0	30%	Pass
Mercury	B16-Ja11791	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel	M16-Au23349	NCP	mg/L	0.009	0.009	2.0	30%	Pass
Zinc	M16-Au23349	NCP	mg/L	0.53	0.51	3.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S16-Au24561	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S16-Au24561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	S16-Au24561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	S16-Au24561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	S16-Au24561	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
o-Xylene	S16-Au24561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total	S16-Au24561	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C10	S16-Au24561	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Naphthalene	S16-Au24561	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass

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
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.

Authorised By

Andrew Black	Analytical Services Manager
Alex Petridis	Senior Analyst-Metal (VIC)
Alex Petridis	Senior Analyst-Organic (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
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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CHAIN OF CUSTODY RECORD

ABN 98 000 000 000

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pg 1 of 2

Company		JACOBS		Purchase Order		Project Manager		Derek Langgans		Project Name		Rhodes East.	
Address		100 CHRISTIE ST, ST. LEONARDS.		Eurofins mgt Quote No		Project No		1A102900		Electronic Results Format		Email	
Contact Name		Kyle. Mclean		Analysis (Note: Where results are requested, please specify "Total" or "Filter") SPECIATED PHENOLS (including Pentachlorophenols, Total Phenols & Methyl Cresols) Heavy Metals (6) TRH VOCs BTEX						Email for Results Kyle.mclean@jacobs.com derek.langgans@jacobs.com		Turn Around Requirements ☐ 1 DAY* ☐ 2 DAY* ☐ 3 DAY* ☒ 5 DAY (Std.) ☐ Other () * Surcharges apply	
Contact Phone No		0402536796											
Special Direction													
Relinquished by		KYLE MCGAN											
(Signature)													
(Time / Date)		25/8/16											
Containers		Method of Shipment											
1L Plastic		250ml Plastic		125ml Plastic		200ml Amber Glass		40ml vial		125ml Amber Glass		Jar	
60ml Plastic		☐ Courier (#) ☒ Hand Delivered ☐ Postal											
Sample Comments / DG Hazard Warning													
No	Client Sample ID	Date	Matrix										
1	MW01	24/8	W	X	X	X	X	X					
2	MW03	24/8		X	X	X	X	X					
3	MW04	24/8		X	X	X	X	X					
4	MW07	25/8		X	X	X	X	X					
5	MW09	25/8		X	X	X	X	X					
6	MW12	25/8		X	X	X	X	X					
7	MW13	24/8		X	X	X	X	X					
8	MW14	25/8		X	X	X	X	X					
9	QC01-250816	25/8		X	X	X	X	X					
10	QC02-250816	25/8		X	X	X	X	X					
11	RO1-250816	25/8			X	X		X					
12	TB160815-07	15/8	W			X		X					
Laboratory Use Only		Received By	Signat		SYD BNE MEL PER ADL NEW DAR		Date	25/8/16	Time	19:00	Signature		Temperature
		Received By			SYD BNE MEL PER ADL NEW DAR		Date	1/1	Time		Signature		Report No
													513300



CHAIN OF CUSTODY RECORD

ABN 50 005 005 521

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pg 2 of 2

Company		JACOBS		Purchase Order				Project Manager		Derek. Langgans		Project Name		Rhodes East			
Address		100 Christ St, St. Leonards		Eurofins mgt Quote No				Project No		1A102900		Electronic Results Format		Email			
Contact Name		Kyle Mclean		Analysis (Note: Where made are requested, please specify "Total" or "Filter")		TRH		BTEX				Email for Results		Kyle.mclean@jacobs.com derek.langgans@jacobs.com			
Contact Phone No		0402536796										Turn Around Requirements		☐ 1 DAY* ☒ 5 DAY (Std.) ☐ 2 DAY* ☐ Other () ☐ 3 DAY* * Surcharges apply			
Special Direction												Containers		Method of Shipment			
Relinquished by		KYLE MCLEAN										1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL vial 125mL Amber Glass Jar		☐ Courier (#) ☐ Hand Delivered ☐ Postal			
(Signature)																	
(Time / Date)		25/8/16															
No	Client Sample ID	Date	Matrix														
1	TS 16 0815 -007	15/8	W	X	X												
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
Laboratory Use Only		Received By	SS	SYD BNE MEL PER ADL NEW DAR		Date	25/8/16	Time	---	Signature	SR	Temperature					
		Received By		SYD BNE MEL PER ADL NEW DAR		Date	1/1	Time	---	Signature		Report No	513300				

Ellen Wandala Gamage

Subject: FW: Rhodes East Waters - MW14 Missing
Importance: High

From: McLean, Kyle [<mailto:Kyle.McLean@jacobs.com>]
Sent: Friday, 26 August 2016 4:45 PM
To: Andrew Black
Subject: Re: Rhodes East Waters - MW14 Missing

MW14 was sampled on the 25/08/16 and MW13 was sampled on the 24/08/16 does that help? MW14 was also written in red i believe and the writing should be much clearer on MW14 as it was dry yesterday.

Sent from my SAMSUNG Galaxy Note7 on the Telstra Mobile Network

----- Original message -----

From: Andrew Black <AndrewBlack@eurofins.com>
Date: 26/08/2016 4:10 PM (GMT+10:00)
To: "McLean, Kyle" <Kyle.McLean@jacobs.com>
Cc: Ellen Wandala Gamage <EllenWandalaGamage@eurofins.com>
Subject: FW: Rhodes East Waters - MW14 Missing

Hi Kyle

Handwritten: #513300

We appear to have 2 x MW13 vial samples and no MW14, can you please confirm if the cleaner or cloudier samples is meant to be MW14?

Thanks heaps



Andrew Black
Phone: +61 410 220 750
Email: AndrewBlack@eurofins.com

Are you on TOP of PFASs? Find out more by reading Eurofins | mgt's Environote by clicking [here](#)

Sample Receipt Advice

Company name: **Jacobs Group (Australia) P/L NSW**

Contact name: Derek Langgons
Project name: RHODES EAST
Project ID: IA102900
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Aug 25, 2016 7:00 PM
Eurofins | mgt reference: **513300**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ 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).

Notes

Sample QC02_250816 forwarded to Envirolab | Two sets of MW13 received, sample MW14 not received, discrepancy details attached

Contact notes

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

Andrew Black on Phone : (+61) 2 9900 8490 or by e.mail: AndrewBlack@eurofins.com

Results will be delivered electronically via e.mail to Derek Langgons - derek.langgons@jacobs.com.



12 Ashley Street, Chatswood, NSW 2067
tel: +61 2 9910 6200

email: sydney@envirolab.com.au
envirolab.com.au

Envirolab Services Pty Ltd - Sydney | ABN 37 112 535 645

CERTIFICATE OF ANALYSIS

152526

Client:

Jacobs Group (Australia) Pty Ltd
100 Christie St
St Leonards
NSW 2065

Attention: Derek Langgons Kyle Mclean

Sample log in details:

Your Reference:	IA102900 Rhodes East
No. of samples:	1 water
Date samples received / completed instructions received	29/08/2016 / 29/08/2016

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 5/09/16 / 1/09/16
Date of Preliminary Report: Not Issued

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Accredited for compliance with ISO/IEC 17025 - Testing

Tests not covered by NATA are denoted with *.

Results Approved By:

David Springer
General Manager



Envirolab Reference: 152526
Revision No: R 00

VOCs in water		
Our Reference:	UNITS	152526-1
Your Reference	-----	QC02_250816
	-	
Date Sampled	-----	25/08/2016
Type of sample		Water
Date extracted	-	29/08/2016
Date analysed	-	30/08/2016
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1

VOCs in water Our Reference: Your Reference	UNITS ----- -	152526-1 QC02_250816
Date Sampled Type of sample	----- Water	25/08/2016
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	102
Surrogate toluene-d8	%	98
Surrogate 4-BFB	%	106

vTRH(C6-C10)/BTEXN in Water		
Our Reference:	UNITS	152526-1
Your Reference	-----	QC02_250816
	-	
Date Sampled	-----	25/08/2016
Type of sample		Water
Date extracted	-	29/08/2016
Date analysed	-	30/08/2016
TRHC ₆ - C ₉	µg/L	<10
TRHC ₆ - C ₁₀	µg/L	<10
TRHC ₆ - C ₁₀ less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	102
Surrogate toluene-d8	%	98
Surrogate 4-BFB	%	106

svTRH (C10-C40) in Water		
Our Reference:	UNITS	152526-1
Your Reference	-----	QC02_250816
	-	
Date Sampled	-----	25/08/2016
Type of sample		Water
Date extracted	-	30/08/2016
Date analysed	-	31/08/2016
TRHC ₁₀ - C ₁₄	µg/L	<50
TRHC ₁₅ - C ₂₈	µg/L	<100
TRHC ₂₉ - C ₃₆	µg/L	<100
TRH>C ₁₀ - C ₁₆	µg/L	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50
TRH>C ₁₆ - C ₃₄	µg/L	<100
TRH>C ₃₄ - C ₄₀	µg/L	<100
Surrogate o-Terphenyl	%	90

Speciated Phenols in water		
Our Reference:	UNITS	152526-1
Your Reference	-----	QC02_250816
	-	
Date Sampled	-----	25/08/2016
Type of sample		Water
Date extracted	-	30/08/2016
Date analysed	-	30/08/2016
Phenol	µg/L	<1
2-Chlorophenol	µg/L	<1
4-Chloro-3-Methylphenol	µg/L	<5
2-Methylphenol (O-Cresol)	µg/L	<1
3/4-Methylphenol (m/p-Cresol)	µg/L	<2
2-Nitrophenol	µg/L	<1
2,4-Dimethylphenol	µg/L	<1
2,4-Dichlorophenol	µg/L	<1
2,6-Dichlorophenol	µg/L	<1
2,4,5-Trichlorophenol	µg/L	<1
2,4,6-Trichlorophenol	µg/L	<1
2,4-Dinitrophenol	µg/L	<20
4-Nitrophenol	µg/L	<20
2346-Tetrachlorophenol	µg/L	<1
2-methyl-4,6-Dinitrophenol	µg/L	<10
Pentachlorophenol	µg/L	<5
Surrogate 2-fluorophenol	%	58
Surrogate Phenol-d ₆	%	31
Surrogate 2,4,6-Tribromophenol	%	121
Surrogate p-Terphenyl-d ₁₄	%	91

HM in water - dissolved		
Our Reference:	UNITS	152526-1
Your Reference	-----	QC02_250816
	-	
Date Sampled	-----	25/08/2016
Type of sample		Water
Date prepared	-	30/08/2016
Date analysed	-	30/08/2016
Arsenic-Dissolved	µg/L	1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	8
Zinc-Dissolved	µg/L	8

Method ID	Methodology Summary
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Metals-022 ICP-MS	Determination of various metals by ICP-MS.
Metals-021	Determination of Mercury by Cold Vapour AAS.

Client Reference: IA102900 Rhodes East

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in water						Base II Duplicate II %RPD		
Date extracted	-			29/08/2016	[NT]	[NT]	LCS-W4	29/08/2016
Date analysed	-			30/08/2016	[NT]	[NT]	LCS-W4	30/08/2016
Dichlorodifluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Chloromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Bromomethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Chloroethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Trans-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,1-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W4	111%
Cis-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Bromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Chloroform	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W4	110%
2,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W4	114%
1,1,1-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W4	109%
1,1-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Cyclohexane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Carbon tetrachloride	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Dibromomethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Trichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W4	126%
Bromodichloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W4	105%
trans-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
cis-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,1,2-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,3-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Dibromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W4	97%
1,2-dibromoethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Tetrachloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W4	114%
1,1,1,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Chlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Ethylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Bromoform	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
m+p-xylene	µg/L	2	Org-013	<2	[NT]	[NT]	[NR]	[NR]
Styrene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,1,2,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
o-xylene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]

Client Reference: IA102900 Rhodes East

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in water						Base II Duplicate II %RPD		
1,2,3-trichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Isopropylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Bromobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
n-propyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
2-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
4-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,3,5-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Tert-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,3-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Sec-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,4-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
4-isopropyl toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
n-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2-dibromo-3-chloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Hexachlorobutadiene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2,3-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Surrogate	%		Org-013	113	[NT]	[NT]	LCS-W4	84%
Dibromofluoromethane								
Surrogate toluene-d8	%		Org-013	97	[NT]	[NT]	LCS-W4	98%
Surrogate 4-BFB	%		Org-013	106	[NT]	[NT]	LCS-W4	100%

Client Reference: IA102900 Rhodes East

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Water						Base II Duplicate II %RPD		
Date extracted	-			29/08/2016	[NT]	[NT]	LCS-W4	29/08/2016
Date analysed	-			30/08/2016	[NT]	[NT]	LCS-W4	30/08/2016
TRHC ₆ - C ₉	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W4	123%
TRHC ₆ - C ₁₀	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W4	123%
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W4	115%
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W4	120%
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W4	127%
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	LCS-W4	127%
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W4	127%
Naphthalene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluoromethane	%		Org-016	113	[NT]	[NT]	LCS-W4	84%
Surrogate toluene-d8	%		Org-016	97	[NT]	[NT]	LCS-W4	98%
Surrogate 4-BFB	%		Org-016	106	[NT]	[NT]	LCS-W4	100%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH (C10-C40) in Water						Base II Duplicate II %RPD		
Date extracted	-			30/08/2016	[NT]	[NT]	LCS-W2	30/08/2016
Date analysed	-			30/08/2016	[NT]	[NT]	LCS-W2	30/08/2016
TRHC ₁₀ - C ₁₄	µg/L	50	Org-003	<50	[NT]	[NT]	LCS-W2	119%
TRHC ₁₅ - C ₂₈	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W2	121%
TRHC ₂₉ - C ₃₆	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W2	133%
TRH>C ₁₀ - C ₁₆	µg/L	50	Org-003	<50	[NT]	[NT]	LCS-W2	119%
TRH>C ₁₆ - C ₃₄	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W2	121%
TRH>C ₃₄ - C ₄₀	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W2	133%
Surrogate o-Terphenyl	%		Org-003	104	[NT]	[NT]	LCS-W2	82%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Speciated Phenols in water						Base II Duplicate II %RPD		
Date extracted	-			30/08/2016	[NT]	[NT]	LCS-W2	30/08/2016
Date analysed	-			30/08/2016	[NT]	[NT]	LCS-W2	30/08/2016
Phenol	µg/L	1	Org-012	<1	[NT]	[NT]	LCS-W2	38%
2-Chlorophenol	µg/L	1	Org-012	<1	[NT]	[NT]	LCS-W2	85%
4-Chloro-3-Methylphenol	µg/L	5	Org-012	<5	[NT]	[NT]	LCS-W2	85%
2-Methylphenol (O-Cresol)	µg/L	1	Org-012	<1	[NT]	[NT]	[NR]	[NR]
3/4-Methylphenol (m/p-Cresol)	µg/L	2	Org-012	<2	[NT]	[NT]	[NR]	[NR]
2-Nitrophenol	µg/L	1	Org-012	<1	[NT]	[NT]	[NR]	[NR]
2,4-Dimethylphenol	µg/L	1	Org-012	<1	[NT]	[NT]	[NR]	[NR]

Client Reference: IA102900 Rhodes East

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Speciated Phenols in water						Base II Duplicate II %RPD		
2,4-Dichlorophenol	µg/L	1	Org-012	<1	[NT]	[NT]	[NR]	[NR]
2,6-Dichlorophenol	µg/L	1	Org-012	<1	[NT]	[NT]	LCS-W2	89%
2,4,5-Trichlorophenol	µg/L	1	Org-012	<1	[NT]	[NT]	[NR]	[NR]
2,4,6-Trichlorophenol	µg/L	1	Org-012	<1	[NT]	[NT]	[NR]	[NR]
2,4-Dinitrophenol	µg/L	20	Org-012	<20	[NT]	[NT]	[NR]	[NR]
4-Nitrophenol	µg/L	20	Org-012	<20	[NT]	[NT]	LCS-W2	36%
2346-Tetrachlorophenol	µg/L	1	Org-012	<1	[NT]	[NT]	[NR]	[NR]
2-methyl-4,6-Dinitrophenol	µg/L	10	Org-012	<10	[NT]	[NT]	LCS-W2	88%
Pentachlorophenol	µg/L	5	Org-012	<5	[NT]	[NT]	[NR]	[NR]
Surrogate 2-fluorophenol	%		Org-012	34	[NT]	[NT]	LCS-W2	73%
Surrogate Phenol-d6	%		Org-012	36	[NT]	[NT]	LCS-W2	36%
Surrogate 2,4,6-Tribromophenol	%		Org-012	116	[NT]	[NT]	LCS-W2	136%
Surrogate p-Terphenyl-d14	%		Org-012	98	[NT]	[NT]	LCS-W2	102%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank				
HM in water - dissolved								
Date prepared	-			30/08/2016				
Date analysed	-			30/08/2016				
Arsenic-Dissolved	µg/L	1	Metals-022 ICP-MS	<1				
Cadmium-Dissolved	µg/L	0.1	Metals-022 ICP-MS	<0.1				
Chromium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1				
Copper-Dissolved	µg/L	1	Metals-022 ICP-MS	<1				
Lead-Dissolved	µg/L	1	Metals-022 ICP-MS	<1				
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05				
Nickel-Dissolved	µg/L	1	Metals-022 ICP-MS	<1				
Zinc-Dissolved	µg/L	1	Metals-022 ICP-MS	<1				

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery
HM in water - dissolved			Base + Duplicate + %RPD		
Date prepared	-	[NT]	[NT]	LCS-W1	30/08/2016
Date analysed	-	[NT]	[NT]	LCS-W1	30/08/2016
Arsenic-Dissolved	µg/L	[NT]	[NT]	LCS-W1	98%
Cadmium-Dissolved	µg/L	[NT]	[NT]	LCS-W1	101%
Chromium-Dissolved	µg/L	[NT]	[NT]	LCS-W1	93%
Copper-Dissolved	µg/L	[NT]	[NT]	LCS-W1	96%
Lead-Dissolved	µg/L	[NT]	[NT]	LCS-W1	102%

Client Reference: IA102900 Rhodes East

QUALITY CONTROL HM in water - dissolved	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Mercury-Dissolved	µg/L	[NT]	[NT]	LCS-W1	99%
Nickel-Dissolved	µg/L	[NT]	[NT]	LCS-W1	98%
Zinc-Dissolved	µg/L	[NT]	[NT]	LCS-W1	99%

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test

NR: Test not required

<: Less than

PQL: Practical Quantitation Limit

RPD: Relative Percent Difference

>: Greater than

NT: Not tested

NA: Test not required

LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.



CHAIN OF CUSTODY RECORD

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Company	JACOBS	Purchase Order		Project Manager	Derek Langgans	Project Name	Rhodes East.					
Address	100 CHRISTIE ST, ST. LEONARDS.	Eurofins mgt Quote No		Project No	1A102900	Electronic Results Format	EMAIL					
Contact Name	Kyle. Mclean	Analysis (Note: Where metals are requested, please specify "Total" or "Filtered") SPECIATED PHENOLS (including Pentachlorophenol, Total Aroclors & Methyl Cresols) Heavy Metals (8) TRH VOCs BTEX				Email for Results	Kyle.mclean@jacobs.com derek.langgans@jacobs.com					
Contact Phone No	0402536796						Turn Around Requirements	☐ 1 DAY* ☒ 5 DAY (Std.) ☐ 2 DAY* ☐ Other (☐ 3 DAY* * Surcharges apply				
Special Direction							Containers 1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL Vial 125mL Amber Glass Jar 60mL Plastic					
Relinquished by (Signature) (Time / Date)	KYLE MCLEAN 25/8/16						Method of Shipment ☐ Courier (# ☒ Hand Delivered ☐ Postal					
No	Client Sample ID	Date	Matrix				Sample Comments / DG Hazard Warning					
1	MW01	24/8	W	X	X	X	X	SAMPLE TIME = 08:55				
2	MW03	24/8		X	X	X	X	16:10				
3	MW04	24/8		X	X	X	X	10:35				
4	MW07	25/8		X	X	X	X	18:10				
5	MW09	25/8		X	X	X	X	16:55				
6	MW12	25/8		X	X	X	X	16:50 15:55				
7	MW13	24/8		X	X	X	X	13:30				
8	MW14	25/8		X	X	X	X	12:35				
9	QC01-250816	25/8		X	X	X	X	16:55				
10	QC02-250816	25/8		X	X	X	X	16:55				
11	RO1-250816	25/8			X	X	X	12:45				
12	TB160815-07	15/8	W		X		X	2				
Laboratory Use Only		Received By	Siamrak	SYD BNE MEL PER ADL NEW DAR	Date	25/8/16	Time	19:00	Signature		Temperature	
		Received By		SYD BNE MEL PER ADL NEW DAR	Date	__/__/__	Time	__:	Signature		Report No	

Relinquished by Sean EF 29/8 10:00

Submission of samples to the laboratory will be deemed as acceptance of Eurofins' Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins' Standard Terms and Conditions is available on request.