

Appendix S – Event 9 Data

Table 80: In situ water quality data and statistical summary for Crookhaven surface waters during Event 9.

[illegible]

Table 81: In situ water quality data and statistical summary for Crookhaven catchment groundwater during Event 9.

[illegible]

Table 82: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 9.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3355/SW102	SW102	29 Aug 2023	<10	<50	<100	<100	<50	<1	<1	0.004	<0.2	0.8	0.05	<0.005	12	0.42	<0.001	<0.001	0.004	0.2
3355/SW103	SW103	29 Aug 2023	<10	<50	130	<100	130	<10	<10	0.003	<0.2	1.8	<0.05	<0.005	16	0.21	<0.001	<0.001	0.014	0.27
3365/SW101	SW101	30 Aug 2023	<10	280	410	<100	680	<100	<100	<0.001	<0.2	11	0.78	0.33	22	0.25	0.002	0.001	0.005	2.5

Statistics																			
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	1	2	0	2	0	0	2	0	3	2	1	3	3	1	1	3
Minimum Concentration			<10	<50	<100	<100	<50	<1	<1	<0.001	<0.2	0.8	0.05	<0.005	12	0.21	<0.001	0.001	0.004
Maximum Concentration			<10	280	410	<100	680	<100	<100	0.004	<0.2	11	0.78	0.33	22	0.42	0.002	0.001	0.014
Average Concentration *			5	110	197	50	278	18	18	0.0025	0.1	4.5	0.28	0.11	17	0.29	0.001	0.00067	0.0077
Median Concentration *			5	25	130	50	130	5	5	0.003	0.1	1.8	0.05	0.0025	16	0.25	0.0005	0.0005	0.005

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																			
3355/SW102	SW102	29 Aug 2023	<0.001	<0.00005	<0.001	0.021	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3355/SW103	SW103	29 Aug 2023	0.001	<0.00005	<0.001	0.043	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW101	SW101	30 Aug 2023	<0.001	<0.00005	<0.001	0.011	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			0.001	<0.00005	<0.001	0.011	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			0.001	<0.00005	<0.001	0.043	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.00067	0.000025	0.0005	0.025	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.0005	0.000025	0.0005	0.021	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH															
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3355/SW102	SW102	29 Aug 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1
3355/SW103	SW103	29 Aug 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1
3365/SW101	SW101	30 Aug 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs								TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50	

Field ID	Location Code	Date	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3355/SW102	SW102	29 Aug 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	140	<100	140
3355/SW103	SW103	29 Aug 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	560	100	660
3365/SW101	SW101	30 Aug 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	560	100	660

Statistics																
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2	2
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	100	<50
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	560	100	660
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	1	5	25	250	67	275
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	1	5	25	140	50	140

* A Non Detect Multiplier of 0.5 has been applied.

Table 83: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event .9



	TRH					Biological			Halogenated Benzenes	Inorganics				Metals								
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Selenium	Zinc
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01	0.001	0.00005	0.001	0.001

Location Code	Date	<10	<50	<100	<100	<50	5A	5A	0.001	<0.2	0.1	<0.1	<0.005	12	0.22	0.002	0.001	<0.001	0.54	<0.001	<0.00005	<0.001	0.003
SW205	30 Aug 2023	<10	<50	<100	<100	<50	1^A	1^A	<0.001	<0.2	0.1	<0.1	<0.005	14	0.06	0.001	<0.001	<0.001	0.13	<0.001	<0.00005	<0.001	0.002
SW207	30 Aug 2023	<10	<50	<100	<100	<50	8A	8A	<0.001	<0.2	0.1	<0.1	<0.005	20	0.22	0.002	0.001	0.001	0.61	<0.001	<0.00005	<0.001	0.004
SW210	30 Aug 2023	<10	<50	<100	<100	<50	1^A	1^A	<0.001	<0.2	0.2	<0.1	<0.005	18	0.24	0.002	0.001	0.001	0.51	<0.001	<0.00005	<0.001	0.005

Statistics																						
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Number of Detects	0	0	0	0	0	0	0	1	0	4	0	0	4	4	4	3	2	4	0	0	0	4
Minimum Concentration	<10	<50	<100	<100	<50	<1	<1	0.001	<0.2	0.1	<0.1	<0.005	12	0.06	0.001	0.001	0.001	0.13	<0.001	<0.00005	<0.001	0.002
Maximum Concentration	<10	<50	<100	<100	<50	<1	<1	0.001	<0.2	0.2	<0.1	<0.005	20	0.24	0.002	0.001	0.001	0.61	<0.001	<0.00005	<0.001	0.005
Average Concentration *	10	50	100	100	50	0.001	0.001	0.001	0.2	0.12	0.1	0.005	16	0.18	0.0018	0.001	0.001	0.45	0.001	0.00005	0.001	0.0035
Median Concentration *	10	50	100	100	50	0.001	0.001	0.001	0.2	0.1	0.1	0.005	16	0.22	0.002	0.001	0.001	0.525	0.001	0.00005	0.001	0.0035

* A Non Detect Multiplier of 1 has been applied.

Table 84: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 9.

	Biological	Inorganics		
	Faecal Coliforms	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	mg/L	mg/L	mg/L
EQL	1	0.1	0.05	0.005

Field ID	Location Code	Date				
3365/GW201	GW201	30 Aug 2023	<10	0.2	0.1	<0.005
3365/GW202	GW202	30 Aug 2023	<10	<0.1	0.2	0.17
3365/GW203	GW203	30 Aug 2023	<100	<0.1	0.06	<0.005
3365/GW204	GW204	29 Aug 2023		<0.1	0.86	<0.005
3365/GW206	GW206	29 Aug 2023		2.3	0.3	0.03
3365/GW207	GW207	29 Aug 2023		0.3	<0.05	<0.005

Statistics					
Number of Results			3	6	6
Number of Detects			0	3	5
Minimum Concentration			<10	<0.1	<0.05
Maximum Concentration			<100	2.3	0.86
Average Concentration *			20	0.49	0.26
Median Concentration *			5	0.125	0.15

* A Non Detect Multiplier of 0.5 has been applied.

Appendix T – Event 9 Documents

Job No: 331844.
Date Received: 31/08/23
Time Received: 1130
Received By: GZ
Temp. Cool/Ambient
Cooling Ice/Repack
Security Blanket

Coc: 31/8/23 1305

SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA - ENVIROLAB QUOTATION - 22SY375_B0											
Name	P1203365 - Water Sampling, West Culburra, NSW										
Martens Contact Officer	Bryson Monaghan					Contact Email	bmonaghan@martens.com.au				
Sampling and Shipping	Sample Date	29 to 31.08.2023		Dispatch Date	31.08.2023		Turnaround Time		Standard		
	Our Reference	P1203365COC30V01				Shipping Method (X)	Hand		X	Post	Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt		Phone	02 9910 6200		Fax		Email	samplereceipt@envirolabservices.com.au	
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address		trichards@martens.com.au, bmonaghan@martens.com.au and CC, ANorris@martens.com.au		

	Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
1	3365/GW201						X	
2	3365/GW202						X	
3	3365/GW203						X	
4	3365/GW204						X	
5	3365/GW206						X	
6	3365/GW207						X	
7	3365/SW101	X	X	X	X			
8	3355/SW102	X	X	X	X			
9	3355/SW103	X	X	X	X			

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ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

	Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coll.	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
10	3365/SW205	X	X	X	X			
11	3365/SW207	X	X	X	X			
12	3365/SW210	X	X	X	X			
13	3365/SW211	X	X	X	X			
14	3365/GWDUP01					X		
15	3365/DUP01	X						
16	3365/DUP02	X						

331844

31/08/23.

AZ

CERTIFICATE OF ANALYSIS 331844

Client Details

Client	Martens & Associates Pty Ltd
Attention	Bryson Monaghan
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	16 Water
Date samples received	31/08/2023
Date completed instructions received	31/08/2023

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	07/09/2023
Date of Issue	07/09/2023
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Diana Korniewicz, Chemist
 Greta Petzold, Operation Manager
 Liam Timmins, Organics Supervisor
 Loren Bardwell, Development Chemist
 Priya Samarawickrama, Senior Chemist
 Tim Toll, Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH in Water (C6-C9) NEPM

Our Reference		331844-7	331844-8	331844-9	331844-10	331844-11
Your Reference	UNITS	3365/SW101	3355/SW102	3355/SW103	3365/SW205	3365/SW207
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	101	103	102	105	105
Surrogate Toluene-d8	%	97	97	97	98	98
Surrogate 4-Bromofluorobenzene	%	105	105	102	104	105

vTRH in Water (C6-C9) NEPM

Our Reference		331844-12	331844-13
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water
Date extracted	-	31/08/2023	31/08/2023
Date analysed	-	04/09/2023	04/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10
Surrogate Dibromofluoromethane	%	104	104
Surrogate Toluene-d8	%	97	97
Surrogate 4-Bromofluorobenzene	%	106	106

svTRH (C10-C40) in Water						
Our Reference	UNITS	331844-7	331844-8	331844-9	331844-10	331844-11
Your Reference		3365/SW101	3355/SW102	3355/SW103	3365/SW205	3365/SW207
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	560	<100	140	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	660	<50	140	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	280	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	410	<100	130	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	680	<50	130	<50	<50
Surrogate o-Terphenyl	%	92	64	85	76	66

svTRH (C10-C40) in Water			
Our Reference	UNITS	331844-12	331844-13
Your Reference		3365/SW210	3365/SW211
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water
Date extracted	-	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50
Surrogate o-Terphenyl	%	92	70

PAHs in Water						
Our Reference		331844-7	331844-8	331844-9	331844-10	331844-11
Your Reference	UNITS	3365/SW101	3355/SW102	3355/SW103	3365/SW205	3365/SW207
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Naphthalene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	88	64	61	78	72

PAHs in Water			
Our Reference		331844-12	331844-13
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		29/08/23- 31/08/23	29/08/23- 31/08/23
Type of sample		Water	Water
Date extracted	-	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	01/09/2023
Naphthalene	µg/L	<0.2	<0.2
Acenaphthylene	µg/L	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	69	78

Organochlorine Pesticides in Water						
Our Reference		331844-7	331844-8	331844-9	331844-10	331844-11
Your Reference	UNITS	3365/SW101	3355/SW102	3355/SW103	3365/SW205	3365/SW207
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	89	65	66	84	77

Organochlorine Pesticides in Water			
Our Reference		331844-12	331844-13
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		29/08/23- 31/08/23	29/08/23- 31/08/23
Type of sample		Water	Water
Date extracted	-	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	01/09/2023
alpha-BHC	µg/L	<0.2	<0.2
HCB	µg/L	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2
Surrogate TCMX	%	105	82

PCBs in Water						
Our Reference		331844-7	331844-8	331844-9	331844-10	331844-11
Your Reference	UNITS	3365/SW101	3355/SW102	3355/SW103	3365/SW205	3365/SW207
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	89	65	66	84	77

PCBs in Water			
Our Reference		331844-12	331844-13
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water
Date extracted	-	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	01/09/2023
Aroclor 1016	µg/L	<2	<2
Aroclor 1221	µg/L	<2	<2
Aroclor 1232	µg/L	<2	<2
Aroclor 1242	µg/L	<2	<2
Aroclor 1248	µg/L	<2	<2
Aroclor 1254	µg/L	<2	<2
Aroclor 1260	µg/L	<2	<2
Surrogate TCMX	%	105	82

All metals in water - total						
Our Reference	UNITS	331844-7	331844-8	331844-9	331844-10	331844-11
Your Reference		3365/SW101	3355/SW102	3355/SW103	3365/SW205	3365/SW207
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Aluminium-Total	µg/L	250	420	210	220	60
Arsenic-Total	µg/L	2	<1	<1	2	1
Chromium-Total	µg/L	1	<1	<1	1	<1
Copper-Total	µg/L	5	4	14	<1	<1
Iron-Total	µg/L	2,500	200	270	540	130
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	11	21	43	3	2

All metals in water - total					
Our Reference	UNITS	331844-12	331844-13	331844-15	331844-16
Your Reference		3365/SW210	3365/SW211	3365/DUP01	3365/DUP02
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Aluminium-Total	µg/L	220	240	1,400	130
Arsenic-Total	µg/L	2	2	<1	1
Chromium-Total	µg/L	1	1	2	1
Copper-Total	µg/L	1	1	30	13
Iron-Total	µg/L	610	510	2,200	300
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	4	<1
Selenium-Total	µg/L	<1	<1	<1	<1
Zinc-Total	µg/L	4	5	78	27

Metals in Waters - Acid extractable

Our Reference		331844-1	331844-2	331844-3	331844-4	331844-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW206
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Phosphorus - Total	mg/L	0.1	0.2	0.06	0.86	0.3

Metals in Waters - Acid extractable

Our Reference		331844-6	331844-7	331844-8	331844-9	331844-10
Your Reference	UNITS	3365/GW207	3365/SW101	3355/SW102	3355/SW103	3365/SW205
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Phosphorus - Total	mg/L	<0.05	0.78	0.05	<0.05	<0.1

Metals in Waters - Acid extractable

Our Reference		331844-11	331844-12	331844-13
Your Reference	UNITS	3365/SW207	3365/SW210	3365/SW211
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water
Date prepared	-	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023
Phosphorus - Total	mg/L	<0.1	<0.1	<0.1

Miscellaneous Inorganics

Our Reference		331844-1	331844-2	331844-3	331844-4	331844-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW206
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Total Nitrogen in water	mg/L	0.2	<0.1	<0.1	<0.1	2.3
Phosphate as P in water	mg/L	<0.005	0.17	<0.005	<0.005	0.03

Miscellaneous Inorganics

Our Reference		331844-6	331844-7	331844-8	331844-9	331844-10
Your Reference	UNITS	3365/GW207	3365/SW101	3355/SW102	3355/SW103	3365/SW205
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Total Suspended Solids	mg/L	[NA]	22	12	16	12
Total Nitrogen in water	mg/L	0.3	11	0.8	1.8	0.1
Phosphate as P in water	mg/L	<0.005	0.33	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	[NA]	<1	4	3	1

Miscellaneous Inorganics

Our Reference		331844-11	331844-12	331844-13	331844-14
Your Reference	UNITS	3365/SW207	3365/SW210	3365/SW211	3365/GWDUP01
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	06/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	06/09/2023
Total Suspended Solids	mg/L	14	20	18	[NA]
Total Nitrogen in water	mg/L	0.1	0.1	0.2	[NA]
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	[NA]
Chlorophyll a	mg/m ³	<1	<1	<1	[NA]
pH	pH Units	[NA]	[NA]	[NA]	6.8
Electrical Conductivity	µS/cm	[NA]	[NA]	[NA]	7,200

Microbiological Testing						
Our Reference		331844-1	331844-2	331844-3	331844-4	331844-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW206
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Faecal Coliforms	cfu/100mL	<10	<10	<100	<18 mpn/100mL	<18 mpn/100mL

Microbiological Testing						
Our Reference		331844-6	331844-7	331844-8	331844-9	331844-10
Your Reference	UNITS	3365/GW207	3365/SW101	3355/SW102	3355/SW103	3365/SW205
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
E. coli	cfu/100mL	[NA]	<100	<1	<10	5A
Faecal Coliforms	cfu/100mL	<18 mpn/100mL	<100	<1	<10	5A

Microbiological Testing				
Our Reference		331844-11	331844-12	331844-13
Your Reference	UNITS	3365/SW207	3365/SW210	3365/SW211
Date Sampled		29/08/23-31/08/23	29/08/23-31/08/23	29/08/23-31/08/23
Type of sample		Water	Water	Water
Date of testing	-	01/09/2023	01/09/2023	01/09/2023
E. coli	cfu/100mL	1^A	8A	1^A
Faecal Coliforms	cfu/100mL	1^A	8A	1^A

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements.
Org-020	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-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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.

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			31/08/2023	[NT]	[NT]	[NT]	[NT]	31/08/2023	[NT]
Date analysed	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	105	[NT]
Surrogate Dibromofluoromethane	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate Toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	100	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date analysed	-			02/09/2023	[NT]	[NT]	[NT]	[NT]	02/09/2023	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	79	[NT]	[NT]	[NT]	[NT]	75	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331844-8
Date extracted	-			01/09/2023	7	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			04/09/2023	7	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Naphthalene	µg/L	0.1	Org-022/025	<0.2	7	<0.2	<0.2	0	83	81
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	91	92
Fluorene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	83	84
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	83	84
Anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	85	85
Pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	88	88
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	78	77
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	84	84
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	72	7	88	64	32	67	64

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331844-8
Date extracted	-			01/09/2023	7	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			04/09/2023	7	04/09/2023	04/09/2023		04/09/2023	04/09/2023
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	91	92
HCB	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	87	89
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	82	83
delta-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	86	84
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	80	85
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	86	86
Dieldrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	88	83
Endrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	73	86
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	86	88
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	82	86
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	110	7	89	61	37	75	71

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331844-8
Date extracted	-			01/09/2023	7	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			04/09/2023	7	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Aroclor 1016	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021	<2	7	<2	<2	0	90	90
Aroclor 1260	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	110	7	89	62	36	75	71

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	331844-8
Date prepared	-			01/09/2023	7	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			01/09/2023	7	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Aluminium-Total	µg/L	10	Metals-022	<10	7	250	240	4	93	#
Arsenic-Total	µg/L	1	Metals-022	<1	7	2	2	0	92	97
Chromium-Total	µg/L	1	Metals-022	<1	7	1	<1	0	92	99
Copper-Total	µg/L	1	Metals-022	<1	7	5	5	0	99	98
Iron-Total	µg/L	10	Metals-022	<10	7	2500	2500	0	92	#
Mercury-Total	µg/L	0.05	Metals-021	<0.05	7	<0.05	<0.05	0	91	89
Lead-Total	µg/L	1	Metals-022	<1	7	<1	<1	0	94	94
Selenium-Total	µg/L	1	Metals-022	<1	7	<1	<1	0	96	97
Zinc-Total	µg/L	1	Metals-022	<1	7	11	11	0	95	100

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331844-2
Date prepared	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.1	0.09	11	106	112

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	11	01/09/2023	01/09/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	11	<0.1	<0.1	0	[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331844-2
Date prepared	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Total Suspended Solids	mg/L	5	Inorg-019	<5	11	14	[NT]		95	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	1	0.2	[NT]		92	91
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	1	<0.005	<0.005	0	86	#
Chlorophyll a	mg/m³	1	INORG-119	<1	11	<1	[NT]		116	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	11	01/09/2023	01/09/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.1	0.1	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	<0.005	<0.005	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

All metals in water - total - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

8 Metals in Waters - total - The PQLs for #10-13 have been raised 2 times due to suppression of the internal standard, which required the samples to be diluted. This is likely due to the high level of salts in the samples.

Phosphate in water - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Microbiology analysed by Sonic Food & Water Testing. Report No. W2320365 & W2320364 & W2320366

The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

^ the result is an estimated value: the analyte was detected at a level above the linear calibration range for said analyte(s).

A: Approximate

Appendix U – Event 10 Data

Table 86: In situ water quality data and statistical summary for Crookhaven surface waters during Event 10.

PROJECT INFORMATION												
PROJECT NUMBER: P1203365				DATE: 19/09/2023								
CLIENT: Sealark Pty Ltd				SAMPLED BY: BTM & TR								
SITE LOCATION: West Culburra												
IN SITU WATER QUALITY PARAMETERS												
Date	Bore / Location ID	Sample Type (S, D or T)	Time	Depth to Water (TOC)	Temp (°C)	pH	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% Sat)	EC µS/cm	Salinity (ppt)	Turbidity (ntu)
19/09/2023	SW201	S (Dry)			21.70	8.03	175.70	6.39		53093.00	35.08	4.82
19/09/2023	SW201	D (Dry)			21.90	7.98	214.80	6.55		53135.00	35.11	5.11
19/09/2023	SW202	S (Dry)			20.50	8.07	365.50	6.48		52970.00	35.00	1.81
19/09/2023	SW202	D (Dry)			20.40	8.08	369.30	6.64		52960.00	34.99	1.94
19/09/2023	SW203	S (Dry)			20.80	8.07	363.60	6.43		53248.00	35.20	9.35
19/09/2023	SW203	D (Dry)			20.80	8.08	362.20	6.69		53207.00	35.17	10.38
19/09/2023	SW204	S (Dry)			24.50	7.68	330.30	5.39		27611.00	16.96	14.76
19/09/2023	SW204	D (Dry)			24.50	7.68	330.50	5.23		35252.00	22.20	16.51
19/09/2023	SW205	S (Dry)			20.40	8.07	346.00	6.48		5393.00	35.61	5.24
19/09/2023	SW205	D (Dry)			20.30	8.07	352.60	6.46		53867.00	35.66	5.96
19/09/2023	SW206	S (Dry)			20.00	8.09	364.10	6.55		54176.00	35.89	4.41
19/09/2023	SW206	D (Dry)			19.80	8.10	365.80	6.67		54326.00	36.01	4.71
19/09/2023	SW207	S (Dry)			20.20	8.09	354.60	6.56		53453.00	35.36	2.57
19/09/2023	SW207	D (Dry)			20.20	8.08	355.70	6.58		53457.00	35.36	2.56
19/09/2023	SW208	S (Dry)			20.00	8.08	362.50	6.44		53926.00	35.71	4.51
19/09/2023	SW208	D (Dry)			19.40	8.09	366.70	6.46		54744.00	36.50	7.51
19/09/2023	SW209	S (Dry)			20.50	7.98	338.70	6.21		53156.00	35.13	8.43
19/09/2023	SW209	D (Dry)			20.40	7.97	344.80	5.98		53198.00	35.17	8.50
19/09/2023	SW210	S (Dry)			20.70	7.99	361.60	6.24		52798.00	34.87	13.29
19/09/2023	SW210	D (Dry)			20.70	7.99	365.70	6.10		52777.00	34.85	80.68
19/09/2023	SW211	S (Dry)			20.90	7.89	356.30	5.77		53065.00	35.63	11.99
19/09/2023	SW211	D (Dry)			20.90	7.88	367.20	5.42		53055.00	35.06	12.28
19/09/2023	SW212	S (Dry)			19.60	8.15	190.10	6.75		53579.00	35.45	5.75
19/09/2023	SW212	D (Dry)			19.70	8.10	226.10	6.67		53322.00	35.26	4.94
19/09/2023	SW213	S (Dry)			19.90	8.09	346.90	6.57		53463.00	35.36	2.13
19/09/2023	SW213	D (Dry)			19.90	8.09	348.80	6.57		53468.00	35.37	2.19
19/09/2023	SW214	S (Dry)			20.80	7.94	359.30	5.77		52868.00	34.87	7.20
19/09/2023	SW214	D (Dry)			20.60	7.87	365.20	5.43		53032.00	35.09	12.69
19/09/2023	SW215	S (Dry)			18.50	8.26	161.40	6.97		55398.00	36.80	0.32
19/09/2023	SW215	D (Dry)			18.50	8.16	206.60	6.95		55420.00	36.82	0.33
19/09/2023	SW216	S (Dry)			17.70	8.17	245.50	7.20		56075.00	37.30	
19/09/2023	SW216	D (Dry)			17.70	8.18	275.70	7.26		56083.00	37.31	
19/09/2023	SW217	S (Dry)			17.60	8.17	299.50	6.94		56113.00	37.33	
19/09/2023	SW217	D (Dry)			17.50	8.18	311.40	7.08		56141.00	37.35	
EVENT STATISTICAL SUMMARY												
Number of results					34.00	34.00	34.00	34.00		34.00	34.00	30.00
Maximum Value					24.50	8.26	369.30	7.26		56141.00	37.35	80.68
Mean Value					20.22	8.04	319.14	6.41		51112.62	34.73	9.10
Median Value					20.35	8.08	350.70	6.52		53285.00	35.36	5.50
Minimum Value					17.50	7.68	161.40	5.23		5393.00	16.96	0.32

Table 89: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 10.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/DUP01	SW102	18 Sep 2023														0.42	<0.001	<0.001	0.004	0.19
3365/SW101	SW101	20 Sep 2023	<100	400	260	<100	660	<100	<100	0.003	<0.2	12	1.3	0.54	54	0.7	0.003	<0.001	0.007	3.5
3365/SW102	SW102	18 Sep 2023	<10	170	<100	<100	170	3,500	3,500	0.01	<0.2	0.5	<0.05	<0.005	5	0.44	<0.001	<0.001	0.003	0.22

Statistics																			
Number of Results			2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
Number of Detects			0	2	1	0	2	1	1	2	0	2	1	1	2	3	1	0	3
Minimum Concentration			<10	170	<100	<100	170	<100	<100	0.003	<0.2	0.5	<0.05	<0.005	5	0.42	<0.001	<0.001	0.003
Maximum Concentration			<100	400	260	<100	660	3,500	3,500	0.01	<0.2	12	1.3	0.54	54	0.7	0.003	<0.001	0.007
Average Concentration *			28	285	155	50	415	1,775	1,775	0.0065	0.1	6.2	0.66	0.27	30	0.52	0.0013	0.0005	0.0047
Median Concentration *			27.5	285	155	50	415	1,775	1,775	0.0065	0.1	6.25	0.6625	0.27125	29.5	0.44	0.0005	0.0005	0.004

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																		
3365/DUP01	SW102	18 Sep 2023	<0.001	<0.00005	<0.001	0.019														
3365/SW101	SW101	20 Sep 2023	0.002	<0.00005	<0.001	0.041	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW102	SW102	18 Sep 2023	0.001	<0.00005	<0.001	0.018	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results			3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects			2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			0.001	<0.00005	<0.001	0.018	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			0.002	<0.00005	<0.001	0.041	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.0012	0.000025	0.0005	0.026	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.001	0.000025	0.0005	0.019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH															
	γ-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3365/DUP01	SW102	18 Sep 2023																		
3365/SW101	SW101	20 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW102	SW102	18 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs								TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50	

Field ID	Location Code	Date													
3365/DUP01	SW102	18 Sep 2023													
3365/SW101	SW101	20 Sep 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	68	560	<100	630
3365/SW102	SW102	18 Sep 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	200	<100	200

Statistics															
Number of Results	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects	0	0	0	0	0	0	0	0	0	0	1	2	0	2	
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	200	<100	200	
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<100	68	560	<100	630	
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	28	46	380	50	415	
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	27.5	46.5	380	50	415	

* A Non Detect Multiplier of 0.5 has been applied.

Table 90: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event 10.

EQL	TRH					Biological			Halogenated Benzenes	Inorganics				Metals								
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Selenium	Zinc
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01	0.001	0.00005	0.001	0.001

Location Code	Date																						
SW201	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	<0.05	0.01	10	0.1	0.002	<0.001	<0.001	0.24	<0.001	<0.00005	<0.001	0.012
SW201	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	0.05	0.01	8	0.12	0.002	<0.001	<0.001	0.25	<0.001	<0.00005	<0.001	0.004
SW202	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.004	<0.2	0.2	<0.05	0.008	8	0.11	0.002	<0.001	<0.001	0.8	0.002	<0.00005	<0.001	0.048
SW202	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	0.06	0.005	8	0.55	0.002	<0.001	<0.001	0.27	<0.001	<0.00005	<0.001	0.006
SW203	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.2	<0.05	<0.005	15	0.17	0.002	<0.001	<0.001	0.34	<0.001	<0.00005	<0.001	0.003
SW203	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	<0.05	<0.005	20	0.15	0.002	<0.001	<0.001	0.35	<0.001	<0.00005	<0.001	0.01
SW204	20 Sep 2023	<10	50	<100	<100	50	200	200	0.003	<0.2	0.4	0.1	<0.005	73	0.72	0.003	0.001	0.001	2.4	<0.001	<0.00005	<0.001	0.006
SW204	20 Sep 2023	<10	58	<100	<100	60	90A	90A	0.006	<0.2	0.4	0.1	<0.005	120	0.45	0.003	<0.001	0.002	0.99	<0.001	<0.00005	<0.001	0.006
SW205	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	<0.1	<0.05	<0.005	13	0.06	0.002	<0.001	<0.001	0.11	<0.001	<0.00005	<0.001	0.002
SW205	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.1	<0.05	<0.005	11	0.06	0.002	<0.001	<0.001	0.13	<0.001	<0.00005	<0.001	0.001
SW206	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.003	<0.2	0.1	<0.05	<0.005	6	0.08	0.002	<0.001	<0.001	0.16	<0.001	<0.00005	<0.001	0.002
SW206	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.003	<0.2	<0.1	<0.05	0.006	8	0.03	0.002	<0.001	<0.001	0.14	<0.001	<0.00005	<0.001	0.002
SW207	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	<0.1	<0.05	<0.005	10	0.06	0.002	<0.001	<0.001	0.13	<0.001	<0.00005	<0.001	0.001
SW207	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	<0.1	<0.05	0.005	10	0.09	0.002	<0.001	<0.001	0.18	<0.001	<0.00005	<0.001	0.002
SW208	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	<0.05	<0.005	8	0.09	0.002	<0.001	<0.001	0.18	<0.001	<0.00005	<0.001	<0.001
SW208	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	<0.1	<0.05	<0.005	8	0.11	0.002	<0.001	<0.001	0.21	<0.001	<0.00005	<0.001	0.002
SW209	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.1	<0.05	<0.005	11	0.16	0.002	<0.001	<0.001	0.22	<0.001	<0.00005	<0.001	0.001
SW209	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	<0.05	<0.005	8	0.13	0.002	<0.001	<0.001	0.25	<0.001	<0.00005	<0.001	0.001
SW210	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.003	<0.2	0.1	<0.05	<0.005	26	0.26	0.002	<0.001	<0.001	0.53	<0.001	<0.00005	<0.001	0.003
SW210	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	<0.05	<0.005	22	0.24	0.002	<0.001	<0.001	0.62	<0.001	<0.00005	<0.001	0.003
SW211	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	<0.05	<0.005	15	0.23	0.002	<0.001	<0.001	0.45	<0.001	<0.00005	<0.001	0.001
SW211	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	<0.05	<0.005	14	0.24	0.002	<0.001	<0.001	0.45	<0.001	<0.00005	<0.001	0.008
SW212	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	<0.1	<0.05	<0.005	14	0.09	0.002	<0.001	<0.001	0.21	<0.001	<0.00005	<0.001	0.002
SW212	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	<0.1	<0.05	<0.005	14	0.13	0.002	<0.001	<0.001	0.29	<0.001	<0.00005	<0.001	0.002
SW213	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.2	<0.05	<0.005	6	0.06	0.002	<0.001	<0.001	0.11	<0.001	<0.00005	<0.001	0.001
SW213	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	<0.05	<0.005	6	0.08	0.002	<0.001	<0.001	0.11	<0.001	<0.00005	<0.001	0.003
SW214	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.003	<0.2	0.2	<0.05	<0.005	12	0.18	0.002	<0.001	<0.001	0.32	<0.001	<0.00005	<0.001	0.002
SW214	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.1	<0.05	<0.005	13	0.11	0.002	<0.001	<0.001	0.2	<0.001	<0.00005	<0.001	0.003
SW215	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.007	<0.2	0.1	<0.05	<0.005	11	0.04	0.002	<0.001	<0.001	0.07	<0.001	<0.00005	<0.001	0.001
SW215	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	<0.1	<0.05	<0.005	5	0.03	0.002	<0.001	<0.001	0.06	<0.001	<0.00005	<0.001	<0.001
SW216	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.004	<0.2	0.2	<0.05	<0.005	<5	0.03	0.002	<0.001	<0.001	0.04	<0.001	<0.00005	<0.001	0.005
SW216	19 Sep 2023	<10	<50	<100	<100	<50	10^A	10^A	0.004	<0.2	<0.1	<0.05	<0.005	<5	0.01	0.002	<0.001	<0.001	0.02	<0.001	<0.00005	<0.001	0.002
SW217	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.004	<0.2	0.1	<0.05	<0.005	<5	<0.01	0.002	<0.001	<0.001	0.03	<0.001	<0.00005	<0.001	0.001
SW217	19 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.007	<0.2	<0.1	<0.05	<0.005	6	0.02	0.002	<0.001	<0.001	0.05	<0.001	<0.00005	<0.001	0.002

Statistics																						
Number of Results	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects	0	2	0	0	2	1	1	14	0	24	4	6	31	33	34	1	2	34	1	0	0	32
Minimum Concentration	<10	50	<100	<100	50	<10	<10	0.002	<0.2	0.1	0.05	0.005	5	0.01	0.002	0.001	0.001	0.02	<0.001	<0.00005	<0.001	0.001
Maximum Concentration	<10	58	<100	<100	60	200	200	0.007	<0.2	0.4	0.1	0.01	120	0.72	0.003	0.001	0.002	2.4	0.002	<0.00005	<0.001	0.048
Average Concentration *	10	50	100	100	50	16	16	0.0028	0.2	0.13	0.053	0.0054	16	0.15	0.0021	0.001	0.001	0.32	0.001	0.00005	0.001	0.0044
Median Concentration *	10	50	100	100	50	10	10	0.002	0.2	0.1	0.05	0.005	10	0.105	0.002	0.001	0.001	0.21	0.001	0.00005	0.001	0.002

* A Non Detect Multiplier of 1 has been applied.

[illegible][illegible]

* A Non Detect Multiplier of 1 has been applied.

[illegible][illegible][illegible]

* A Non Detect Multiplier of 1 has been applied.



EQ	PCBs							TPH				
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ	2	2	2	2	2	2	2	10	50	100	100	50

Location Code	Date												
SW201	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW201	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW202	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW202	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW203	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	51	<100	<100	50
SW203	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW204	20 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW204	20 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW205	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW205	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW206	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW206	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW207	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW207	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW208	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW208	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW209	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW209	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW210	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW210	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW211	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW211	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW212	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW212	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW213	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW213	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW214	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW214	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW215	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW215	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW216	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW216	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW217	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW217	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50

Statistics													
Number of Results	34	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects	0	0	0	0	0	0	0	0	0	1	0	0	1
Minimum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	50
Maximum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	51	<100	<100	50
Average Concentration *	2	2	2	2	2	2	2	2	10	50	100	100	50
Median Concentration *	2	2	2	2	2	2	2	2	10	50	100	100	50

* A Non Detect Multiplier of 1 has been applied.

Table 91: Laboratory water analysis and statistical summary for Lake Wollumbulla surface waters during Event 10.



	TRH					Biological			Halogenated Benzenes	Inorganics				Metals								
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Selenium	Zinc
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01	0.001	0.00005	0.001	0.001

Location Code	Date																						
SW302	19 Sep 2023	<10	180	120	<100	300	<1,000	<1,000	0.11	<0.2	1.4	0.1	<0.005	13	0.1	<0.001	<0.001	0.003	0.2	<0.001	<0.00005	<0.001	0.006
SW302	19 Sep 2023	<10	270	<100	<100	270	<1,000	<1,000	0.11	<0.2	1.2	0.07	<0.005	12	0.12	<0.001	<0.001	0.002	0.23	<0.001	<0.00005	<0.001	0.023
SW303	19 Sep 2023	<10	330	110	<100	440	<10	<10	0.002	<0.2	1.1	<0.05	<0.005	<5	0.04	0.002	<0.001	<0.001	0.19	<0.001	<0.00005	<0.001	0.008
SW303	19 Sep 2023	<10	62	<100	<100	60	<10	<10	0.002	<0.2	1.1	<0.05	<0.005	<5	0.08	0.002	<0.001	<0.001	0.24	<0.001	<0.00005	<0.001	0.006
SW304	18 Sep 2023	<10	320	<100	<100	320	20 MPN/100mL	18 MPN/100mL	0.005	<0.2	2.0	0.1	<0.005	120	1.7	<0.001	0.002	0.004	5.9	0.003	<0.00005	<0.001	0.013
SW304	18 Sep 2023	<100	340	<100	<100	340	18 MPN/100mL	18 MPN/100mL	0.005	<0.2	2.0	0.1	<0.005	150	1.4	<0.001	0.002	0.006	6.2	0.002	<0.00005	<0.001	0.014
SW305	18 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.6	<0.05	<0.005	<5	0.03	0.001	<0.001	<0.001	0.08	<0.001	<0.00005	<0.001	0.008
SW305	18 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	0.6	<0.05	<0.005	<5	0.03	0.001	<0.001	<0.001	0.09	<0.001	<0.00005	<0.001	0.002
SW306	18 Sep 2023	<10	<50	<100	<100	<50	<10	<10	0.003	<0.2	1.0	0.06	<0.005	20	0.19	0.003	<0.001	<0.001	0.29	<0.001	<0.00005	<0.001	0.004
SW306	18 Sep 2023	<10	<50	<100	<100	<50	<10	<10	<0.002	<0.2	1.0	0.08	<0.005	16	0.54	0.003	<0.001	<0.001	0.75	<0.001	<0.00005	<0.001	0.006
SW307	19 Sep 2023	<100	440	<100	<100	440	18 MPN/100mL	18 MPN/100mL	0.007	<0.2	1.4	<0.05	<0.005	66	3.3	0.002	0.006	0.003	1.8	0.003	<0.00005	<0.001	0.022
SW307	19 Sep 2023	<100	360	<100	<100	360	18 MPN/100mL	18 MPN/100mL	<0.002	<0.2	1.3	<0.05	<0.005	16	3.4	0.002	0.005	0.003	1.8	0.003	<0.00005	<0.001	0.012

Statistics																						
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	0	8	2	0	8	0	0	9	0	12	6	0	8	12	8	4	6	12	4	0	0	12
Minimum Concentration	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.6	<0.05	<0.005	<5	0.03	0.001	<0.001	<0.001	0.08	<0.001	<0.00005	<0.001	0.002
Maximum Concentration	<100	440	120	<100	440	<1,000	<1,000	0.11	<0.2	2	0.1	<0.005	150	3.4	0.003	0.006	0.006	6.2	0.003	<0.00005	<0.001	0.023
Average Concentration *	32	208	102	100	228	258	258	0.021	0.2	1.2	0.068	0.005	36	0.91	0.0017	0.0019	0.0023	1.5	0.0016	0.00005	0.001	0.01
Median Concentration *	10	225	100	100	285	10	10	0.0025	0.2	1.15	0.055	0.005	14.5	0.155	0.0015	0.001	0.0015	0.265	0.001	0.00005	0.001	0.008

* A Non Detect Multiplier of 1 has been applied.



EQ	Organochlorine Pesticides																		
	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Location Code	Date																		
SW302	19 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW302	19 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW303	19 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW303	19 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW304	18 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW304	18 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW305	18 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW305	18 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW306	18 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW306	18 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW307	19 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW307	19 Sep 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																			
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Median Concentration *	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

* A Non Detect Multiplier of 1 has been applied.



EQL	PAH																
	Benzo(b,i,k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ	PAHs (Sum of positives)
	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L
EQL	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001

Location Code	Date																
SW302	19 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW302	19 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW303	19 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW303	19 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW304	18 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW304	18 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW305	18 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW305	18 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW306	18 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW306	18 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW307	19 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW307	19 Sep 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001

Statistics																	
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
Maximum Concentration	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
Average Concentration *	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001
Median Concentration *	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001

* A Non Detect Multiplier of 1 has been applied.



	PCBs							TPH				
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	2	2	2	2	2	2	2	10	50	100	100	50

Location Code	Date												
SW302	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	220	<100	220
SW302	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	300	<100	300
SW303	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	370	<100	370
SW303	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW304	18 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	340	<100	340
SW304	18 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<100	<50	340	<100	340
SW305	18 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW305	18 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW306	18 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW306	18 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW307	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<100	<50	470	<100	470
SW307	19 Sep 2023	<2	<2	<2	<2	<2	<2	<2	<100	<50	450	<100	450

Statistics													
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	0	0	0	0	0	0	0	0	0	0	7	0	7
Minimum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<100	<50	470	<100	470
Average Concentration *	2	2	2	2	2	2	2	2	32	50	249	100	228
Median Concentration *	2	2	2	2	2	2	2	2	10	50	260	100	260

* A Non Detect Multiplier of 1 has been applied.

Table 92: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 10.

	Biological	Inorganics				
	Faecal Coliforms	Electrical Conductivity (Non Compensated)	Nitrogen (Total)	pH (Lab)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	µS/cm	mg/L	-	mg/L	mg/L
EQL	1	1	0.1		0.05	0.005

Field ID	Location Code	Date						
3365/GW201	GW201	18 Sep 2023	<10		0.1		0.1	<0.005
3365/GW202	GW202	20 Sep 2023			<0.1		0.2	0.15
3365/GW203	GW203	18 Sep 2023	<10		<0.1		0.06	<0.005
3365/GW204	GW204	18 Sep 2023	<100		<0.1		0.56	0.18
3365/GW206	GW205	18 Sep 2023			0.3		0.08	0.04
3365/GW207	GW207	18 Sep 2023			0.2		<0.05	<0.005
3365/GW DUP01	GW207	18 Sep 2023		12,000		6.4		

Statistics							
Number of Results	3	1	6	1	6	6	
Number of Detects	0	1	3	1	5	3	
Minimum Concentration	<10	12,000	0.1	6.4	<0.05	<0.005	
Maximum Concentration	<100	12,000	0.3	6.4	0.56	0.18	
Average Concentration *	20		0.12		0.17	0.063	
Median Concentration *	5	12,000	0.075	6.4	0.09	0.02125	

* A Non Detect Multiplier of 0.5 has been applied.

Appendix V – Event 10 Documents

SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0											
Name	P1203365 – Water Sampling, West Culburra, NSW										
Martens Contact Officer	Trystan Richards					Contact Email	trichards@martens.com.au				
Sampling and Shipping	Sample Date	18.09.2023 – 20.09.2023		Dispatch Date	21.09.2023		Turnaround Time			Standard	
	Our Reference	P1203365COC31V01				Shipping Method (X)	Hand		X	Post	Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt	Phone	02 9910 6200	Fax		Email	samplereceipt@envirolabservices.com.au			
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address		trichards@martens.com.au and CC, ANorris@martens.com.au		

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
1 3365/GW01						X	
2 3365/GW02						X	
3 3365/GW03						X	
4 3365/GW04						X	
5 3365/GW06						X	
6 3365/GW07						X	
						X	
7 3365/SW101	X	X	X	X			
8 3365/SW102	X	X	X	X			

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 333594

Date Received: 21/9/23
Time Received: 1200
Received By: R
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Head Office
Suite 201, 20 George Street
Hornsby NSW 2077, Australia
Ph 02 9476 9999 Fax 02 9476 8767

> mail@martens.com.au
> www.martens.com.au
MARTENS & ASSOCIATES P/L
ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
9 3365/SW201 W/1	X	X	X	X			
10 3365/SW201 W/2	X	X	X	X			
11 3365/SW202 W/1	X	X	X	X			
12 3365/SW202 W/2	X	X	X	X			
13 3365/SW203 W/1	X	X	X	X			
14 3365/SW203 W/2	X	X	X	X			
15 3365/SW205 W/1	X	X	X	X			
16 3365/SW205 W/1	X	X	X	X			
17 3365/SW206 W/1	X	X	X	X			
18 3365/SW206 W/2	X	X	X	X			
19 3365/SW207 W/1	X	X	X	X			
20 3365/SW207 W/2	X	X	X	X			
21 3365/SW208 W/1	X	X	X	X			
22 3365/SW208 W/2	X	X	X	X			
23 3365/SW209 W/1	X	X	X	X			
24 3365/SW209 W/2	X	X	X	X			
25 3365/SW210 W/1	X	X	X	X			
26 3365/SW210 W/2	X	X	X	X			
27 3365/SW211 W/1 ✓	X	X	X	X			
28 3365/SW211 W/2 ✓	X	X	X	X			
29 3365/SW212 W/1 ✓	X	X	X	X			
30 3365/SW212 W/2 ✓	X	X	X	X			
31 3365/SW213 W/1 ✓	X	X	X	X			
32 3365/SW213 W/2 ✓	X	X	X	X			
33 3365/SW214 W/1 ✓	X	X	X	X			
34 3365/SW214 W/2 ✓	X	X	X	X			
35 3365/SW215 W/1 ✓	X	X	X	X			
36 3365/SW215 W/2 ✓	X	X	X	X			
37 3365/SW216 W/1 ✓	X	X	X	X			
38 3365/SW216 W/2 ✓	X	X	X	X			

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
39 3365/SW217 W/1 ✓	X	X	X	X			
40 3365/SW217 W/2 ✓	X	X	X	X			
41 3365/SW302 W/1 ✓	X	X	X	X			
42 3365/SW302 W/2 ✓	X	X	X	X			
43 3365/SW303 W/1 ✓	X	X	X	X			
44 3365/SW303 W/2 ✓	X	X	X	X			
45 3365/SW304 W/1 ✓	X	X	X	X			
46 3365/SW304 W/2 ✓	X	X	X	X			
47 3365/SW305 W/1 ✓	X	X	X	X			
48 3365/SW305 W/2 ✓	X	X	X	X			
49 3365/SW306 W/1 ✓	X	X	X	X			
50 3365/SW306 W/2 ✓	X	X	X	X			
51 3365/SW307 W/1 ✓	X	X	X	X			
52 3365/SW307 W/2 ✓	X	X	X	X			
53 3365/DUP01 ✓	X						
54 3365/DUP02 ✓	X						
55 3365/DUP03 ✓	X						
56 3365/DUP04 ✓	X						
57 3365/GW DUP01 ✓					X		

58 SW/SW204 W1

59 SW/SW204 W2 7 extra PL

CERTIFICATE OF ANALYSIS 333594

Client Details

Client	Martens & Associates Pty Ltd
Attention	Trystan Richards
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	59 Water
Date samples received	21/09/2023
Date completed instructions received	21/09/2023

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	28/09/2023
Date of Issue	28/09/2023
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Diego Bigolin, Inorganics Supervisor
 Dragana Tomas, Senior Chemist
 Greta Petzold, Operation Manager
 Loren Bardwell, Development Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH in Water (C6-C9) NEPM

Our Reference		333594-7	333594-8	333594-9	333594-10	333594-11
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
TRH C ₆ - C ₉	µg/L	<100	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<100	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	104	111	110	111	111
Surrogate Toluene-d8	%	100	105	104	104	103
Surrogate 4-Bromofluorobenzene	%	101	102	103	103	103

vTRH in Water (C6-C9) NEPM

Our Reference		333594-12	333594-13	333594-14	333594-15	333594-16
Your Reference	UNITS	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	110	111	116	115	98
Surrogate Toluene-d8	%	103	103	111	111	102
Surrogate 4-Bromofluorobenzene	%	104	103	101	100	96

vTRH in Water (C6-C9) NEPM

Our Reference		333594-17	333594-18	333594-19	333594-20	333594-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	108	102	99	95	115
Surrogate Toluene-d8	%	106	103	102	101	111
Surrogate 4-Bromofluorobenzene	%	98	97	96	94	100

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

vTRH in Water (C6-C9) NEPM

Our Reference		333594-22	333594-23	333594-24	333594-25	333594-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	114	110	95	114	106
Surrogate Toluene-d8	%	107	106	101	110	105
Surrogate 4-Bromofluorobenzene	%	103	98	95	100	98

vTRH in Water (C6-C9) NEPM

Our Reference		333594-27	333594-28	333594-29	333594-30	333594-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	115	100	114	112	114
Surrogate Toluene-d8	%	110	102	109	107	106
Surrogate 4-Bromofluorobenzene	%	101	97	101	101	103

vTRH in Water (C6-C9) NEPM

Our Reference		333594-32	333594-33	333594-34	333594-35	333594-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	115	115	97	101	96
Surrogate Toluene-d8	%	109	109	102	102	100
Surrogate 4-Bromofluorobenzene	%	100	101	96	97	96

vTRH in Water (C6-C9) NEPM

Our Reference		333594-37	333594-38	333594-39	333594-40	333594-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	96	113	95	103	94
Surrogate Toluene-d8	%	101	110	101	104	101
Surrogate 4-Bromofluorobenzene	%	95	100	95	98	94

vTRH in Water (C6-C9) NEPM

Our Reference		333594-42	333594-43	333594-44	333594-45	333594-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	25/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	26/09/2023	25/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<100
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<100
Surrogate Dibromofluoromethane	%	94	94	111	101	104
Surrogate Toluene-d8	%	101	101	105	98	100
Surrogate 4-Bromofluorobenzene	%	94	95	103	100	101

vTRH in Water (C6-C9) NEPM

Our Reference		333594-47	333594-48	333594-49	333594-50	333594-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	26/09/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<100
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<100
Surrogate Dibromofluoromethane	%	113	112	114	114	103
Surrogate Toluene-d8	%	105	106	107	109	98
Surrogate 4-Bromofluorobenzene	%	103	103	102	100	108

vTRH in Water (C6-C9) NEPM				
Our Reference		333594-52	333594-58	333594-59
Your Reference	UNITS	3365/SW307 W/2	SW204 W/1	SW204 W/2
Date Sampled		18/09/2023- 20/09/2023	18/09/2023- 20/09/2023	18/09/2023- 20/09/2023
Type of sample		Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023
TRH C ₆ - C ₉	µg/L	<100	<10	<10
TRH C ₆ - C ₁₀	µg/L	<100	<10	<10
Surrogate Dibromofluoromethane	%	103	101	100
Surrogate Toluene-d8	%	98	102	101
Surrogate 4-Bromofluorobenzene	%	101	98	97

svTRH (C10-C40) in Water						
Our Reference	UNITS	333594-7	333594-8	333594-9	333594-10	333594-11
Your Reference		3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023
TRH C ₁₀ - C ₁₄	µg/L	68	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	560	200	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	630	200	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	400	170	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	260	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	660	170	<50	<50	<50
Surrogate o-Terphenyl	%	78	78	90	83	95

svTRH (C10-C40) in Water						
Our Reference	UNITS	333594-12	333594-13	333594-14	333594-15	333594-16
Your Reference		3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	51	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	87	80	85	90	99

svTRH (C10-C40) in Water

Our Reference		333594-17	333594-18	333594-19	333594-20	333594-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	23/09/2023	23/09/2023	23/09/2023	26/09/2023	26/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	89	86	81	110

svTRH (C10-C40) in Water

Our Reference		333594-22	333594-23	333594-24	333594-25	333594-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	104	103	100	85	98

svTRH (C10-C40) in Water

Our Reference		333594-27	333594-28	333594-29	333594-30	333594-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	95	65	71	71	102

svTRH (C10-C40) in Water

Our Reference		333594-32	333594-33	333594-34	333594-35	333594-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	26/09/2023	26/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	95	87	103	98	88

svTRH (C10-C40) in Water

Our Reference		333594-37	333594-38	333594-39	333594-40	333594-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	300
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	300
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	270
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	270
Surrogate o-Terphenyl	%	90	68	98	109	92

svTRH (C10-C40) in Water

Our Reference		333594-42	333594-43	333594-44	333594-45	333594-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	220	<100	370	340	340
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	220	<50	370	340	340
TRH >C ₁₀ - C ₁₆	µg/L	180	62	330	320	340
TRH >C ₁₆ - C ₃₄	µg/L	120	<100	110	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	300	60	440	320	340
Surrogate o-Terphenyl	%	97	99	120	94	89

svTRH (C10-C40) in Water

Our Reference		333594-47	333594-48	333594-49	333594-50	333594-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	470
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	470
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	440
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	440
Surrogate o-Terphenyl	%	77	80	107	92	66

svTRH (C10-C40) in Water

Our Reference		333594-52	333594-58	333594-59
Your Reference	UNITS	3365/SW307 W/2	SW204 W/1	SW204 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	450	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	450	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	360	50	58
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	360	50	60
Surrogate o-Terphenyl	%	68	95	92

PAHs in Water						
Our Reference	UNITS	333594-7	333594-8	333594-9	333594-10	333594-11
Your Reference		3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	92	78	126	102	101

PAHs in Water						
Our Reference		333594-12	333594-13	333594-14	333594-15	333594-16
Your Reference	UNITS	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	89	91	101	100	103

PAHs in Water						
Our Reference		333594-17	333594-18	333594-19	333594-20	333594-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	28/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	93	65	86	86	119

PAHs in Water						
Our Reference		333594-22	333594-23	333594-24	333594-25	333594-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	28/09/2023	25/09/2023	28/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	99	106	110	89	98

PAHs in Water						
Our Reference		333594-27	333594-28	333594-29	333594-30	333594-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	95	76	88	88	113

PAHs in Water						
Our Reference		333594-32	333594-33	333594-34	333594-35	333594-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	28/09/2023	25/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	110	93	104	112	103

PAHs in Water						
Our Reference		333594-37	333594-38	333594-39	333594-40	333594-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	26/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	100	70	126	112	91

PAHs in Water						
Our Reference		333594-42	333594-43	333594-44	333594-45	333594-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	103	100	104	105	98

PAHs in Water						
Our Reference		333594-47	333594-48	333594-49	333594-50	333594-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	113	111	137	117	79

PAHs in Water				
Our Reference		333594-52	333594-58	333594-59
Your Reference	UNITS	3365/SW307 W/2	SW204 W/1	SW204 W/2
Date Sampled		18/09/2023- 20/09/2023	18/09/2023- 20/09/2023	18/09/2023- 20/09/2023
Type of sample		Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	66	95	121

Organochlorine Pesticides in Water						
Our Reference	UNITS	333594-7	333594-8	333594-9	333594-10	333594-11
Your Reference		3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	87	70	116	92	97

Organochlorine Pesticides in Water						
Our Reference		333594-12	333594-13	333594-14	333594-15	333594-16
Your Reference	UNITS	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	84	86	90	92	98

Organochlorine Pesticides in Water						
Our Reference		333594-17	333594-18	333594-19	333594-20	333594-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	28/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	85	61	78	82	102

Organochlorine Pesticides in Water						
Our Reference		333594-22	333594-23	333594-24	333594-25	333594-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	28/09/2023	25/09/2023	28/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	93	95	96	78	90

Organochlorine Pesticides in Water						
Our Reference		333594-27	333594-28	333594-29	333594-30	333594-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	87	73	82	72	113

Organochlorine Pesticides in Water						
Our Reference		333594-32	333594-33	333594-34	333594-35	333594-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	28/09/2023	25/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	107	92	104	97	96

Organochlorine Pesticides in Water						
Our Reference		333594-37	333594-38	333594-39	333594-40	333594-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	98	70	104	104	91

Organochlorine Pesticides in Water						
Our Reference		333594-42	333594-43	333594-44	333594-45	333594-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	26/09/2023	26/09/2023	26/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	98	94	101	100	88

Organochlorine Pesticides in Water						
Our Reference		333594-47	333594-48	333594-49	333594-50	333594-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	99	101	123	108	78

Organochlorine Pesticides in Water				
Our Reference		333594-52	333594-58	333594-59
Your Reference	UNITS	3365/SW307 W/2	SW204 W/1	SW204 W/2
Date Sampled		18/09/2023- 20/09/2023	18/09/2023- 20/09/2023	18/09/2023- 20/09/2023
Type of sample		Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2
Surrogate TCMX	%	60	86	111

PCBs in Water						
Our Reference	UNITS	333594-7	333594-8	333594-9	333594-10	333594-11
Your Reference		3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	87	70	116	92	97

PCBs in Water						
Our Reference	UNITS	333594-12	333594-13	333594-14	333594-15	333594-16
Your Reference		3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	84	86	90	92	98

PCBs in Water						
Our Reference		333594-17	333594-18	333594-19	333594-20	333594-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	28/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	85	61	78	82	102

PCBs in Water						
Our Reference		333594-22	333594-23	333594-24	333594-25	333594-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	28/09/2023	25/09/2023	28/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	93	95	96	78	90

PCBs in Water						
Our Reference		333594-27	333594-28	333594-29	333594-30	333594-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	87	73	82	72	113

PCBs in Water						
Our Reference		333594-32	333594-33	333594-34	333594-35	333594-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	28/09/2023	25/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	107	92	104	97	96

PCBs in Water						
Our Reference		333594-37	333594-38	333594-39	333594-40	333594-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	98	70	104	104	91

PCBs in Water						
Our Reference		333594-42	333594-43	333594-44	333594-45	333594-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	26/09/2023	26/09/2023	26/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	98	94	101	100	88

PCBs in Water						
Our Reference		333594-47	333594-48	333594-49	333594-50	333594-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	89	101	123	108	78

PCBs in Water				
Our Reference		333594-52	333594-58	333594-59
Your Reference	UNITS	3365/SW307 W/2	SW204 W/1	SW204 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023
Aroclor 1016	µg/L	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2
Surrogate TCMX	%	60	86	111

All metals in water - total

Our Reference		333594-7	333594-8	333594-9	333594-10	333594-11
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	700	440	100	120	110
Arsenic-Total	µg/L	3	<1	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	7	3	<1	<1	<1
Iron-Total	µg/L	3,500	220	240	250	800
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	2	1	<1	<1	2
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	41	18	12	4	48

All metals in water - total

Our Reference		333594-12	333594-13	333594-14	333594-15	333594-16
Your Reference	UNITS	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	550	170	150	60	60
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	270	340	350	110	130
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	6	3	10	2	1

All metals in water - total

Our Reference		333594-17	333594-18	333594-19	333594-20	333594-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	30	80	60	90	90
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	140	160	130	180	180
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	2	2	1	2	<1

All metals in water - total

Our Reference		333594-22	333594-23	333594-24	333594-25	333594-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	110	160	130	260	240
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	210	220	250	530	620
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	2	1	1	3	3

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All metals in water - total						
Our Reference		333594-27	333594-28	333594-29	333594-30	333594-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	230	240	90	130	60
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	450	450	210	290	110
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	1	8	2	2	1

All metals in water - total						
Our Reference		333594-32	333594-33	333594-34	333594-35	333594-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	80	180	110	40	30
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	110	320	200	70	60
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	3	2	3	1	<1

All metals in water - total

Our Reference		333594-37	333594-38	333594-39	333594-40	333594-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	30	10	<10	20	120
Arsenic-Total	µg/L	2	2	2	2	<1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	2
Iron-Total	µg/L	40	20	30	50	230
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	5	2	1	2	23

All metals in water - total

Our Reference		333594-42	333594-43	333594-44	333594-45	333594-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	100	80	40	1,700	1,400
Arsenic-Total	µg/L	<1	2	2	<1	<1
Chromium-Total	µg/L	<1	<1	<1	2	2
Copper-Total	µg/L	3	<1	<1	4	6
Iron-Total	µg/L	200	240	190	5,900	6,200
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	3	2
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	6	6	8	13	14

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All metals in water - total						
Our Reference		333594-47	333594-48	333594-49	333594-50	333594-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	30	30	540	190	3,300
Arsenic-Total	µg/L	1	1	3	3	2
Chromium-Total	µg/L	<1	<1	<1	<1	6
Copper-Total	µg/L	<1	<1	<1	<1	3
Iron-Total	µg/L	80	90	750	290	1,800
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	3
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	8	2	6	4	22

All metals in water - total						
Our Reference		333594-52	333594-53	333594-54	333594-55	333594-56
Your Reference	UNITS	3365/SW307 W/2	3365/DUP01	3365/DUP02	3365/DUP03	3365/DUP04
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Aluminium-Total	µg/L	3,400	420	130	20	140
Arsenic-Total	µg/L	2	<1	<1	2	2
Chromium-Total	µg/L	5	<1	<1	<1	<1
Copper-Total	µg/L	3	4	2	<1	<1
Iron-Total	µg/L	1,800	190	240	150	260
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	3	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	12	19	21	8	3

All metals in water - total			
Our Reference		333594-58	333594-59
Your Reference	UNITS	SW204 W/1	SW204 W/2
Date Sampled		18/09/2023- 20/09/2023	18/09/2023- 20/09/2023
Type of sample		Water	Water
Date prepared	-	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023
Aluminium-Total	µg/L	720	450
Arsenic-Total	µg/L	3	3
Chromium-Total	µg/L	1	<1
Copper-Total	µg/L	1	2
Iron-Total	µg/L	2,400	990
Mercury-Total	µg/L	<0.05	<0.05
Lead-Total	µg/L	<1	<1
Selenium-Total	µg/L	<1	<1
Zinc-Total	µg/L	6	6

Metals in Waters - Acid extractable

Our Reference		333594-1	333594-2	333594-3	333594-4	333594-5
Your Reference	UNITS	3365/GW01	3365/GW02	3365/GW03	3365/GW04	3365/GW06
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	0.1	0.2	0.06	0.56	0.08

Metals in Waters - Acid extractable

Our Reference		333594-6	333594-7	333594-8	333594-9	333594-10
Your Reference	UNITS	3365/GW07	3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	<0.05	1.3	<0.05	<0.05	0.05

Metals in Waters - Acid extractable

Our Reference		333594-11	333594-12	333594-13	333594-14	333594-15
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	<0.05	0.06	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		333594-16	333594-17	333594-18	333594-19	333594-20
Your Reference	UNITS	3365/SW205 W/1	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		333594-21	333594-22	333594-23	333594-24	333594-25
Your Reference	UNITS	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		333594-26	333594-27	333594-28	333594-29	333594-30
Your Reference	UNITS	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		333594-31	333594-32	333594-33	333594-34	333594-35
Your Reference	UNITS	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		333594-36	333594-37	333594-38	333594-39	333594-40
Your Reference	UNITS	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		333594-41	333594-42	333594-43	333594-44	333594-45
Your Reference	UNITS	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	0.07	0.1	<0.05	<0.05	0.1

Metals in Waters - Acid extractable

Our Reference		333594-46	333594-47	333594-48	333594-49	333594-50
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	0.1	<0.05	<0.05	0.08	0.06

Metals in Waters - Acid extractable

Our Reference		333594-51	333594-52	333594-58	333594-59
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	SW204 W/1	SW204 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Phosphorus - Total	mg/L	<0.05	<0.05	0.1	0.1

Miscellaneous Inorganics

Our Reference		333594-1	333594-2	333594-3	333594-4	333594-5
Your Reference	UNITS	3365/GW01	3365/GW02	3365/GW03	3365/GW04	3365/GW06
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Nitrogen in water	mg/L	0.1	<0.1	<0.1	<0.1	0.3
Phosphate as P in water	mg/L	<0.005	0.15	<0.005	0.18	0.04

Miscellaneous Inorganics

Our Reference		333594-6	333594-7	333594-8	333594-9	333594-10
Your Reference	UNITS	3365/GW07	3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	[NA]	54	5	10	8
Total Nitrogen in water	mg/L	0.2	12	0.5	0.1	0.1
Phosphate as P in water	mg/L	<0.005	0.54	<0.005	0.01	0.01
Chlorophyll a	mg/m ³	[NA]	3	10	<2	<2

Miscellaneous Inorganics

Our Reference		333594-11	333594-12	333594-13	333594-14	333594-15
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	8	8	15	20	13
Total Nitrogen in water	mg/L	0.2	0.1	0.2	0.1	<0.1
Phosphate as P in water	mg/L	0.008	0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	4	<2	<2	<2	<2

Miscellaneous Inorganics

Our Reference		333594-16	333594-17	333594-18	333594-19	333594-20
Your Reference	UNITS	3365/SW205 W/1	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	11	8	6	10	10
Total Nitrogen in water	mg/L	0.1	<0.1	0.1	<0.1	<0.1
Phosphate as P in water	mg/L	<0.005	0.006	<0.005	<0.005	0.005
Chlorophyll a	mg/m ³	2	3	3	<2	<2

Miscellaneous Inorganics

Our Reference		333594-21	333594-22	333594-23	333594-24	333594-25
Your Reference	UNITS	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	8	8	11	8	26
Total Nitrogen in water	mg/L	0.1	<0.1	0.1	0.1	0.1
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	<2	<2	2	<2	3

Miscellaneous Inorganics

Our Reference		333594-26	333594-27	333594-28	333594-29	333594-30
Your Reference	UNITS	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	22	15	14	14	14
Total Nitrogen in water	mg/L	0.1	0.1	0.1	<0.1	<0.1
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	<2	<2	<2	<2	<2

Miscellaneous Inorganics

Our Reference		333594-31	333594-32	333594-33	333594-34	333594-35
Your Reference	UNITS	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	6	6	12	13	11
Total Nitrogen in water	mg/L	0.2	0.1	0.2	0.1	0.1
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	<2	<2	3	<2	7

Miscellaneous Inorganics

Our Reference		333594-36	333594-37	333594-38	333594-39	333594-40
Your Reference	UNITS	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	5	<5	<5	<5	6
Total Nitrogen in water	mg/L	<0.1	0.2	<0.1	0.1	<0.1
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	<2	4	4	4	7

Miscellaneous Inorganics

Our Reference		333594-41	333594-42	333594-43	333594-44	333594-45
Your Reference	UNITS	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	12	13	<5	<5	120
Total Nitrogen in water	mg/L	1.2	1.4	1.1	1.1	2.0
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	110	110	2	2	5

Miscellaneous Inorganics

Our Reference		333594-46	333594-47	333594-48	333594-49	333594-50
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	150	<5	<5	16	20
Total Nitrogen in water	mg/L	2.0	0.6	0.6	1.0	1.0
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	5	2	<2	<2	3

Miscellaneous Inorganics

Our Reference		333594-51	333594-52	333594-57	333594-58	333594-59
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/GW DUP01	SW204 W/1	SW204 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Suspended Solids	mg/L	66	16	[NA]	73	120
Total Nitrogen in water	mg/L	1.4	1.3	[NA]	0.4	0.4
Phosphate as P in water	mg/L	<0.005	<0.005	[NA]	<0.005	<0.005
Chlorophyll a	mg/m ³	7	<2	[NA]	3	6
pH	pH Units	[NA]	[NA]	6.4	[NA]	[NA]
Electrical Conductivity	µS/cm	[NA]	[NA]	12,000	[NA]	[NA]

Microbiological Testing

Our Reference		333594-1	333594-2	333594-3	333594-4	333594-5
Your Reference	UNITS	3365/GW01	3365/GW02	3365/GW03	3365/GW04	3365/GW06
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Faecal Coliforms	cfu/100mL	<10	<1000 NBO	<10	<100	<18 MPN/100mL

Microbiological Testing

Our Reference		333594-6	333594-7	333594-8	333594-9	333594-10
Your Reference	UNITS	3365/GW07	3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	[NA]	<100	3,500	<10	<10
Faecal Coliforms	cfu/100mL	<18 MPN/100mL	<100	3,500	<10	<10

Microbiological Testing

Our Reference		333594-11	333594-12	333594-13	333594-14	333594-15
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	<10	<10	<10	<10	<10
Faecal Coliforms	cfu/100mL	<10	<10	<10	<10	<10

Microbiological Testing

Our Reference		333594-16	333594-17	333594-18	333594-19	333594-20
Your Reference	UNITS	3365/SW205 W/1	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	<10	<10	<10	<10	<10
Faecal Coliforms	cfu/100mL	<10	<10	<10	<10	<10

Microbiological Testing

Our Reference		333594-21	333594-22	333594-23	333594-24	333594-25
Your Reference	UNITS	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	<10	<10	<10	<10	<10
Faecal Coliforms	cfu/100mL	<10	<10	<10	<10	<10

Microbiological Testing

Our Reference		333594-26	333594-27	333594-28	333594-29	333594-30
Your Reference	UNITS	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	<10	<10	<10	<10	<10
Faecal Coliforms	cfu/100mL	<10	<10	<10	<10	<10

Microbiological Testing

Our Reference		333594-31	333594-32	333594-33	333594-34	333594-35
Your Reference	UNITS	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	<10	<10	<10	<10	<10
Faecal Coliforms	cfu/100mL	<10	<10	<10	<10	<10

Microbiological Testing

Our Reference		333594-36	333594-37	333594-38	333594-39	333594-40
Your Reference	UNITS	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	<10	<10	10^A	<10	<10
Faecal Coliforms	cfu/100mL	<10	<10	10^A	<10	<10

Microbiological Testing

Our Reference		333594-41	333594-42	333594-43	333594-44	333594-45
Your Reference	UNITS	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	<1000	<1000	<10	<10	<18 MPN/100mL
Faecal Coliforms	cfu/100mL	<1000	<1000	<10	<10	20 MPN/100mL

Microbiological Testing

Our Reference		333594-46	333594-47	333594-48	333594-49	333594-50
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	<18 MPN/100mL	<10	<10	<10	<10
Faecal Coliforms	cfu/100mL	<18 MPN/100mL	<10	<10	<10	<10

Microbiological Testing

Our Reference		333594-51	333594-52	333594-58	333594-59
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	SW204 W/1	SW204 W/2
Date Sampled		18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023	18/09/2023-20/09/2023
Type of sample		Water	Water	Water	Water
Date of testing	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
E. coli	cfu/100mL	<18 MPN/100mL	<18 MPN/100mL	200	90 A
Faecal Coliforms	cfu/100mL	<18 MPN/100mL	<18 MPN/100mL	200	90 A

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determined stoichiometrically from the base metal concentration.
Org-020	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-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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.

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			22/09/2023	8	22/09/2023	22/09/2023		22/09/2023	[NT]
Date analysed	-			25/09/2023	8	25/09/2023	25/09/2023		25/09/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	8	<10	<10	0	105	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	8	<10	<10	0	105	[NT]
Surrogate Dibromofluoromethane	%		Org-023	112	8	111	101	9	104	[NT]
Surrogate Toluene-d8	%		Org-023	110	8	105	99	6	106	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	99	8	102	100	2	103	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			[NT]	17	22/09/2023	22/09/2023		22/09/2023	[NT]
Date analysed	-			[NT]	17	25/09/2023	25/09/2023		25/09/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	17	<10	<10	0	100	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	17	<10	<10	0	100	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	17	108	102	6	105	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	17	106	98	8	106	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	17	98	101	3	104	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			[NT]	27	22/09/2023	22/09/2023		22/09/2023	[NT]
Date analysed	-			[NT]	27	25/09/2023	25/09/2023		25/09/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	27	<10	<10	0	101	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	27	<10	<10	0	101	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	27	115	101	13	108	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	27	110	102	8	109	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	27	101	105	4	104	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	37	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	37	25/09/2023	25/09/2023		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	37	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	37	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	37	96	102	6	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	37	101	98	3	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	37	95	100	5	[NT]	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	47	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	47	25/09/2023	25/09/2023		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	47	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	47	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	47	113	100	12	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	47	105	98	7	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	47	103	99	4	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333594-9
Date extracted	-			22/09/2023	7	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			23/09/2023	7	23/09/2023	23/09/2023		23/09/2023	23/09/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	7	68	69	1	80	85
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	7	560	610	9	86	93
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	7	<100	<100	0	86	87
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	7	400	380	5	80	85
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	7	260	330	24	86	93
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	7	<100	<100	0	86	87
Surrogate o-Terphenyl	%		Org-020	81	7	78	72	8	86	101

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	333594-14
Date extracted	-			[NT]	17	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	17	23/09/2023	23/09/2023		23/09/2023	23/09/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	17	<50	<50	0	71	101
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	17	<100	<100	0	84	98
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	17	<100	<100	0	71	67
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	17	<50	<50	0	71	101
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	17	<100	<100	0	84	98
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	17	<100	<100	0	71	67
Surrogate o-Terphenyl	%		Org-020	[NT]	17	79	78	1	85	115

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	333594-35
Date extracted	-			[NT]	24	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	24	26/09/2023	26/09/2023		23/09/2023	23/09/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	24	<50	<50	0	79	107
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	24	<100	<100	0	93	104
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	24	<100	<100	0	71	71
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	24	<50	<50	0	79	107
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	24	<100	<100	0	93	104
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	24	<100	<100	0	71	71
Surrogate o-Terphenyl	%		Org-020	[NT]	24	100	101	1	94	111

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	27	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	27	26/09/2023	26/09/2023		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	27	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	27	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	27	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	27	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	27	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	27	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	27	95	91	4	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	34	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	34	25/09/2023	26/09/2023		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	34	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	34	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	34	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	34	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	34	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	34	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	34	103	85	19	[NT]	[NT]

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QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333594-8
Date extracted	-			22/09/2023	7	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			25/09/2023	7	25/09/2023	25/09/2023		25/09/2023	25/09/2023
Naphthalene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	89	69
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	95	71
Fluorene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	91	68
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	97	70
Anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	99	68
Pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	104	72
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	86	63
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	89	67
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	120	7	92	84	9	132	98

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	333594-28
Date extracted	-			[NT]	17	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	17	25/09/2023	25/09/2023		25/09/2023	25/09/2023
Naphthalene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	94	69
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	102	73
Fluorene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	96	70
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	111	75
Anthracene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	110	74
Pyrene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	114	77
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	76	68
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	114	68
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	17	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	17	93	91	2	118	83

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PAHs in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	333594-49
Date extracted	-			[NT]	27	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	27	25/09/2023	28/09/2023		25/09/2023	26/09/2023
Naphthalene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	122	95
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	111	102
Fluorene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	99	100
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	101	104
Anthracene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	99	106
Pyrene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	104	112
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	90	92
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	97	101
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	27	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	27	95	111	16	129	121

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	38	25/09/2023	25/09/2023		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	38	70	109	44	[NT]	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	50	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	50	26/09/2023	26/09/2023		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	50	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	50	117	125	7	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333594-8
Date extracted	-			22/09/2023	7	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			25/09/2023	7	25/09/2023	25/09/2023		25/09/2023	25/09/2023
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	93	70
HCB	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	94	69
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	98	67
delta-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	93	66
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	92	71
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	106	76
Dieldrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	107	77
Endrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	97	73
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	94	68
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	86	67
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	104	7	87	79	10	122	91

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	333594-28
Date extracted	-			[NT]	17	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	17	25/09/2023	25/09/2023		25/09/2023	25/09/2023
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	94	68
HCB	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	96	68
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	108	70
delta-BHC	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	111	68
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	107	76
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	120	81
Dieldrin	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	132	76
Endrin	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	112	68
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	114	69
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	100	62
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	17	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	17	85	88	3	102	78

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	333594-49
Date extracted	-			[NT]	27	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	27	25/09/2023	28/09/2023		25/09/2023	26/09/2023
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	101	101
HCB	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	101	102
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	93	101
delta-BHC	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	92	102
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	84	104
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	106	115
Dieldrin	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	112	124
Endrin	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	90	112
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	99	107
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	87	98
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	27	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	27	87	95	9	133	112

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	38	25/09/2023	25/09/2023		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	38	70	105	40	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	50	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	50	26/09/2023	26/09/2023		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	50	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	50	108	101	7	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333594-8
Date extracted	-			22/09/2023	7	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			25/09/2023	7	25/09/2023	25/09/2023		25/09/2023	25/09/2023
Aroclor 1016	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021	<2	7	<2	<2	0	115	100
Aroclor 1260	µg/L	2	Org-021	<2	7	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	104	7	87	79	10	99	91

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	333594-28
Date extracted	-			[NT]	17	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	17	25/09/2023	25/09/2023		25/09/2023	25/09/2023
Aroclor 1016	µg/L	2	Org-021	[NT]	17	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021	[NT]	17	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021	[NT]	17	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021	[NT]	17	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021	[NT]	17	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021	[NT]	17	<2	<2	0	119	109
Aroclor 1260	µg/L	2	Org-021	[NT]	17	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	17	85	88	3	102	78

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	333594-49
Date extracted	-			[NT]	27	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	27	25/09/2023	28/09/2023		25/09/2023	26/09/2023
Aroclor 1016	µg/L	2	Org-021	[NT]	27	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021	[NT]	27	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021	[NT]	27	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021	[NT]	27	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021	[NT]	27	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021	[NT]	27	<2	<2	0	136	140
Aroclor 1260	µg/L	2	Org-021	[NT]	27	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	27	87	95	9	133	112

QUALITY CONTROL: PCBs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	38	25/09/2023	25/09/2023		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021	[NT]	38	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	38	70	105	40	[NT]	[NT]

QUALITY CONTROL: PCBs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	50	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	50	26/09/2023	26/09/2023		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021	[NT]	50	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021	[NT]	50	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021	[NT]	50	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021	[NT]	50	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021	[NT]	50	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021	[NT]	50	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021	[NT]	50	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	50	108	101	7	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	333594-8
Date prepared	-			22/09/2023	7	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			26/09/2023	7	26/09/2023	26/09/2023		26/09/2023	26/09/2023
Aluminium-Total	µg/L	10	Metals-022	<10	7	700	540	26	115	#
Arsenic-Total	µg/L	1	Metals-022	<1	7	3	2	40	109	101
Chromium-Total	µg/L	1	Metals-022	<1	7	<1	<1	0	114	97
Copper-Total	µg/L	1	Metals-022	<1	7	7	6	15	118	96
Iron-Total	µg/L	10	Metals-022	<10	7	3500	3200	9	110	#
Mercury-Total	µg/L	0.05	Metals-021	<0.05	7	<0.05	<0.05	0	90	88
Lead-Total	µg/L	1	Metals-022	<1	7	2	1	67	112	99
Selenium-Total	µg/L	1	Metals-022	<1	7	<1	<1	0	109	101
Zinc-Total	µg/L	1	Metals-022	<1	7	41	41	0	107	111

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	333594-28
Date prepared	-			[NT]	17	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	17	26/09/2023	26/09/2023		26/09/2023	26/09/2023
Aluminium-Total	µg/L	10	Metals-022	[NT]	17	30	[NT]		107	#
Arsenic-Total	µg/L	1	Metals-022	[NT]	17	2	[NT]		106	99
Chromium-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		103	96
Copper-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		118	76
Iron-Total	µg/L	10	Metals-022	[NT]	17	140	[NT]		117	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	17	<0.05	<0.05	0	94	95
Lead-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		112	85
Selenium-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		112	94
Zinc-Total	µg/L	1	Metals-022	[NT]	17	2	[NT]		119	75

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	333594-48
Date prepared	-			[NT]	21	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	21	26/09/2023	26/09/2023		26/09/2023	26/09/2023
Aluminium-Total	µg/L	10	Metals-022	[NT]	21	90	110	20	108	99
Arsenic-Total	µg/L	1	Metals-022	[NT]	21	2	2	0	104	108
Chromium-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	111	108
Copper-Total	µg/L	1	Metals-022	[NT]	21	<1	2	67	112	87
Iron-Total	µg/L	10	Metals-022	[NT]	21	180	200	11	113	83
Mercury-Total	µg/L	0.05	Metals-021	[NT]	21	<0.05	[NT]		85	93
Lead-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	120	93
Selenium-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	111	102
Zinc-Total	µg/L	1	Metals-022	[NT]	21	<1	2	67	116	92

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	27	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	27	26/09/2023	26/09/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	27	230	240	4	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	27	2	2	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	27	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	27	<1	<1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	27	450	450	0	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	27	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	27	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	27	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	27	1	1	0	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	37	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	37	26/09/2023	26/09/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	37	30	20	40	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	37	2	2	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	37	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	37	<1	<1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	37	40	40	0	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	37	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	37	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	37	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	37	5	5	0	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	47	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	47	26/09/2023	26/09/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	47	30	20	40	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	47	1	1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	47	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	47	<1	<1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	47	80	70	13	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	47	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	47	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	47	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	47	8	5	46	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	58	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	58	26/09/2023	26/09/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	58	720	650	10	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	58	3	3	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	58	1	1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	58	1	1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	58	2400	2200	9	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	58	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	58	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	58	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	58	6	4	40	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333594-3
Date prepared	-			22/09/2023	1	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			22/09/2023	1	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.1	0.09	11	98	108

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	333594-23
Date prepared	-			[NT]	7	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	7	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	7	1.3	1.3	0	112	100

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	333594-43
Date prepared	-			[NT]	21	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			[NT]	21	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	21	<0.05	<0.05	0	106	105

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	27	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	27	22/09/2023	22/09/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	27	<0.05	<0.05	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	41	22/09/2023	22/09/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	41	0.07	0.07	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	47	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	47	22/09/2023	22/09/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	47	<0.05	<0.05	0	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333594-2
Date prepared	-			21/09/2023	1	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Date analysed	-			21/09/2023	1	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Total Suspended Solids	mg/L	5	Inorg-019	<5	7	54	57	5	108	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	1	0.1	0.1	0	99	87
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	1	<0.005	<0.005	0	85	101
Chlorophyll a	mg/m ³	1	INORG-119	<1	7	3	[NT]		100	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	333594-13
Date prepared	-			[NT]	7	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Date analysed	-			[NT]	7	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	11	8	[NT]		83	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	7	12	[NT]		98	83
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	7	0.54	[NT]		83	93
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	11	4	[NT]		105	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	333594-22
Date prepared	-			[NT]	11	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Date analysed	-			[NT]	11	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	21	8	[NT]		94	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.2	0.2	0	99	96
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	0.008	0.007	13	88	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	21	<2	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	333594-42
Date prepared	-			[NT]	21	21/09/2023	21/09/2023		[NT]	21/09/2023
Date analysed	-			[NT]	21	21/09/2023	21/09/2023		[NT]	21/09/2023
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	21	0.1	0.1	0	[NT]	96
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	21	<0.005	<0.005	0	[NT]	83
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	31	6	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	31	<2	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	31	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	31	21/09/2023	21/09/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	31	0.2	0.2	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	41	12	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	41	110	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	41	21/09/2023	21/09/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	41	1.2	1.4	15	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	45	120	120	0	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	45	5	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	45	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	45	21/09/2023	21/09/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	45	2.0	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	45	<0.005	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	51	66	68	3	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	51	7	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	51	21/09/2023	21/09/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	51	1.4	1.4	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	51	<0.005	<0.005	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Microbiology analysed by Sonic Food & Water Testing. Report No. W2322189-196

NBO: The presence of competing background organisms in the sample may have reduced the count.

A: Approximate

^ The stated result may be statistically unreliable

The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

All metals in water - total - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Chlorophyll a:PQL has been raised due to the small volume of sample supplied.

TRH_W_VOL_NEPM:The PQL has been raised as sample/s 333594-7,46,51,52 was/were foamy and therefore required a dilution.

Appendix X – Event 11 Data

Table 94: In situ water quality data and statistical summary for Crookhaven surface waters during Event 11.

[illegible]

Table 96: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 11.

	TRH					Biological	Halogenated Benzenes	Inorganics				Metals						
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron	Lead	Mercury
	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01	0.001	0.00005

Field ID	Location Code	Date																		
3365/DUP01	SW103	17 Oct 2023												0.35	0.002	0.002	<0.001	0.71	<0.001	<0.00005
3365/SW101	SW101	17 Oct 2023	<10	170	700	<100	880	0.002	<0.2	39	3.1	1.7	69	0.16	0.002	<0.001	0.003	1.5	<0.001	<0.00005
3365/SW102	SW102	16 Oct 2023	<10	440	560	<100	1,000	0.01	<0.2	3.8	0.2	<0.005	450	2.2	<0.001	0.002	0.007	1.1	0.003	0.00008
3365/SW103	SW103	17 Oct 2023	<10	130	410	150	690	<0.001	<0.2	1.8	0.4	0.11	54	0.35	<0.001	<0.001	0.007	0.41	<0.001	<0.00005

Statistics																		
Number of Results	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
Number of Detects	0	3	3	1	3	2	0	3	3	2	3	4	2	2	3	4	1	1
Minimum Concentration	<10	130	410	<100	690	<0.001	<0.2	1.8	0.2	<0.005	54	0.16	<0.001	<0.001	<0.001	0.41	<0.001	<0.00005
Maximum Concentration	<10	440	700	150	1,000	0.01	<0.2	39	3.1	1.7	450	2.2	0.002	0.002	0.007	1.5	0.003	0.00008
Average Concentration *	5	247	557	83	857	0.0042	0.1	15	1.2	0.6	191	0.77	0.0012	0.0013	0.0044	0.93	0.0011	0.000039
Median Concentration *	5	170	560	50	880	0.002	0.1	3.8	0.4	0.11	69	0.35	0.00125	0.00125	0.005	0.905	0.0005	0.000025

* A Non Detect Multiplier of 0.5 has been applied.

			Organochlorine Pesticides																
	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	γ-BHC (Lindane)	Heptachlor
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																		
3365/DUP01	SW103	17 Oct 2023	<0.001	0.023																
3365/SW101	SW101	17 Oct 2023	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW102	SW102	16 Oct 2023	<0.001	0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW103	SW103	17 Oct 2023	<0.001	0.022	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration	<0.001	0.023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *	0.0005	0.018	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *	0.0005	0.021	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

			PAH																
	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ	PAHs (Sum of positives)
	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L
EQL	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001

Field ID	Location Code	Date																	
3365/DUP01	SW103	17 Oct 2023																	
3365/SW101	SW101	17 Oct 2023	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
3365/SW102	SW102	16 Oct 2023	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
3365/SW103	SW103	17 Oct 2023	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001

Statistics																				
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001	
Maximum Concentration	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001	
Average Concentration *	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00025	0.00005	
Median Concentration *	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00025	0.00005	

* A Non Detect Multiplier of 0.5 has been applied.

	PCBs							TPH				
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date												
3365/DUP01	SW103	17 Oct 2023												
3365/SW101	SW101	17 Oct 2023	<2	<2	<2	<2	<2	<2	<2	<10	130	640	170	940
3365/SW102	SW102	16 Oct 2023	<2	<2	<2	<2	<2	<2	<2	<10	470	500	290	1,300
3365/SW103	SW103	17 Oct 2023	<2	<2	<2	<2	<2	<2	<2	<10	100	310	230	640

Statistics													
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	3	3	3	3
Minimum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	100	310	170	640
Maximum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	470	640	290	1,300
Average Concentration *	1	1	1	1	1	1	1	1	5	233	483	230	960
Median Concentration *	1	1	1	1	1	1	1	1	5	130	500	230	940

* A Non Detect Multiplier of 0.5 has been applied.

Table 97: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event 11.



	TRH					Biological			Halogenated Benzenes	Inorganics				Metals								
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Selenium	Zinc
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01	0.001	0.00005	0.001	0.001

Location Code	Date	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.2	<0.1	0.007	12	0.11	0.001	<0.001	<0.001	0.25	<0.001	<0.00005	<0.001	0.016
SW205	17 Oct 2023	<10	<50	<100	<100	<50	<10	<10	0.003	<0.2	0.2	<0.1	0.006	9	0.08	0.001	<0.001	<0.001	0.15	<0.001	<0.00005	<0.001	0.013
SW207	17 Oct 2023	<10	<50	<100	<100	<50	<10	<10	0.003	<0.2	0.2	<0.1	0.006	9	0.08	0.001	<0.001	<0.001	0.15	<0.001	<0.00005	<0.001	0.013
SW210	17 Oct 2023	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.1	<0.1	0.005	18	0.29	0.002	0.001	<0.001	0.69	<0.001	<0.00005	<0.001	0.024
SW211	17 Oct 2023	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.2	<0.1	0.006	22	0.29	0.002	0.001	0.001	0.58	<0.001	<0.00005	<0.001	0.006

Statistics																						
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	4	0	4	0	4	4	4	4	2	1	4	0	0	0	4
Minimum Concentration	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.1	<0.1	0.005	9	0.08	0.001	0.001	0.001	0.15	<0.001	<0.00005	<0.001	0.006
Maximum Concentration	<10	<50	<100	<100	<50	<10	<10	0.003	<0.2	0.2	<0.1	0.007	22	0.29	0.002	0.001	0.001	0.69	<0.001	<0.00005	<0.001	0.024
Average Concentration *	10	50	100	100	50	10	10	0.0018	0.2	0.18	0.1	0.006	15	0.19	0.0015	0.001	0.001	0.42	0.001	0.00005	0.001	0.015
Median Concentration *	10	50	100	100	50	10	10	0.0015	0.2	0.2	0.1	0.006	15	0.2	0.0015	0.001	0.001	0.415	0.001	0.00005	0.001	0.0145

* A Non Detect Multiplier of 1 has been applied.



EQL	Organochlorine Pesticides																		
	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Location Code	Date																		
SW205	17 Oct 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW207	17 Oct 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW210	17 Oct 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW211	17 Oct 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																			
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Median Concentration *	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

* A Non Detect Multiplier of 1 has been applied.



PAH																	
Benzo(b,i,k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	
mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	
EQL	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001	

Location Code	Date																
SW205	17 Oct 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW207	17 Oct 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW210	17 Oct 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW211	17 Oct 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001

Statistics																	
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
Maximum Concentration	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
Average Concentration *	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001
Median Concentration *	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001

* A Non Detect Multiplier of 1 has been applied.



	PCBs							TPH				
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	2	2	2	2	2	2	2	10	50	100	100	50

Location Code	Date												
SW205	17 Oct 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW207	17 Oct 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW210	17 Oct 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW211	17 Oct 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50

Statistics													
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Average Concentration *	2	2	2	2	2	2	2	2	10	50	100	100	50
Median Concentration *	2	2	2	2	2	2	2	2	10	50	100	100	50

* A Non Detect Multiplier of 1 has been applied.

Table 98: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 11.

	Biological	Inorganics				
	Faecal Coliforms	Electrical Conductivity (Non Compensated)	Nitrogen (Total)	pH (Lab)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	µS/cm	mg/L	-	mg/L	mg/L
EQL	1	1	0.1		0.05	0.005

Field ID	Location Code	Date						
3356/GW203	GW203	17 Oct 2023	<100		<0.1		<0.05	0.04
3365/GW201	GW201	17 Oct 2023	<100		0.8		<0.05	0.01
3365/GW202	GW202	17 Oct 2023	<1,000		1.4		0.3	0.16
3365/GW204	GW204	17 Oct 2023			<0.1		6.3	0.04
3365/GW206	GW206	17 Oct 2023			0.3		0.1	0.056
3365/GW207	GW207	17 Oct 2023			0.2		<0.05	0.008
3365/GWDUP01	GW207	17 Oct 2023		13,000		6.3		

Statistics						
Number of Results	3	1	6	1	6	6
Number of Detects	0	1	4	1	3	6
Minimum Concentration	<100	13,000	<0.1	6.3	<0.05	0.008
Maximum Concentration	<1,000	13,000	1.4	6.3	6.3	0.16
Average Concentration *	200		0.47		1.1	0.052
Median Concentration *	50	13,000	0.25	6.3	0.0625	0.04

* A Non Detect Multiplier of 0.5 has been applied.

Appendix W – Event 11 Documents

Multi Parameter Water Meter

Instrument YSI Pro DSS
Serial No. 21K101474



Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
	Recharge OK?	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH/ORP	✓	
	2. Turbidity	✓	
	3. Conductivity	✓	
	4. D.O	✓	
	5. Temp	✓	
	6. Depth	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. EC		2760uS/cm		401089	2762uS/cm
2. Temp		20.5°C		Testo	20.5°C
3. pH 4		pH 4.00		399527	pH 3.98
4. pH 7		pH 7.00		399304	pH 7.08
5. DO		0.0%		12110	0.0%
6. Turbidity		100 NTU		406442	100.12NTU
7. ORP		238.9mV		A405006/B398193	239.6mV

Calibrated by:

Guido Camera

Calibration date:

11/10/2023

Next calibration due:

10/11/2023

SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0											
Name	P1203365 – Water Sampling, West Culburra, NSW										
Martens Contact Officer	Bryson Monaghan					Contact Email	bmonaghan@martens.com.au				
Sampling and Shipping	Sample Date	29 to 31.08.2023		Dispatch Date	31.08.2023		Turnaround Time			Standard	
	Our Reference	P1203365COC30V01				Shipping Method (X)	Hand	X	Post		Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt	Phone	02 9910 6200	Fax		Email	samplereceipt@envirolabservices.com.au			
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address	trichards@martens.com.au, bmonaghan@martens.com.au and CC, ANorris@martens.com.au			

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coll,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
1 3365/GW201						X	
2 3365/GW202						X	
3 3365/GW203						X	
4 3365/GW204						X	
5 3365/GW206						X	
6 3365/GW207						X	
7 3365/SW101	X	X	X	X			
8 3355/SW102	x	x	x	x			
9 3355/SW103	x	x	x	x			

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 335606
Date Received: 18/10/2023
Time Received: 12:30
Received By: [Signature]
Temp: Cool/Ambient
Cooling: Ice/Repack
Security: Intact/Broken/None

Head Office
Suite 201, 20 George Street
Hornsby NSW 2077, Australia
Ph 02 9476 9999 Fax 02 9476 8767

> mail@martens.com.au
> www.martens.com.au
MARTENS & ASSOCIATES P/L
ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coll,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
10 3365/SW205	X	X	X	X			
11 3365/SW207	X	X	X	X			
12 3365/SW210	X	X	X	X			
13 3365/SW211	X	X	X	X			
14 3365/GWDUP01					X		
15 3365/DUP01	X						
16 3365/DUP02	X						



EnviroLab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No:

335606

Date Received:

18/10/2023

Time Received:

12:30

Received By:

Temp: Cool/Ambient

Cooling: Icepack

Security: Intact/Broken/None

CERTIFICATE OF ANALYSIS 335606

Client Details

Client	Martens & Associates Pty Ltd
Attention	Bryson Monaghan
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	16 Water
Date samples received	18/10/2023
Date completed instructions received	18/10/2023

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	25/10/2023
Date of Issue	26/10/2023
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
 Liam Timmins, Organics Supervisor
 Loren Bardwell, Development Chemist
 Nancy Zhang, Laboratory Manager, Sydney
 Nick Sarlamis, Assistant Operation Manager
 Tim Toll, Chemist (FAS)

Authorised By

Nancy Zhang, Laboratory Manager

vTRH in Water (C6-C9) NEPM

Our Reference		335606-7	335606-8	335606-9	335606-10	335606-11
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/10/2023	19/10/2023	19/10/2023	19/10/2023	19/10/2023
Date analysed	-	23/10/2023	20/10/2023	20/10/2023	20/10/2023	20/10/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	98	102	101	102	102
Surrogate Toluene-d8	%	97	98	98	98	97
Surrogate 4-Bromofluorobenzene	%	98	103	103	102	103

vTRH in Water (C6-C9) NEPM

Our Reference		335606-12	335606-13
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water
Date extracted	-	19/10/2023	19/10/2023
Date analysed	-	20/10/2023	20/10/2023
TRH C ₆ - C ₉	µg/L	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10
Surrogate Dibromofluoromethane	%	102	104
Surrogate Toluene-d8	%	97	99
Surrogate 4-Bromofluorobenzene	%	104	103

svTRH (C10-C40) in Water						
Our Reference	UNITS	335606-7	335606-8	335606-9	335606-10	335606-11
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	23/10/2023	23/10/2023	23/10/2023	23/10/2023	23/10/2023
Date analysed	-	24/10/2023	24/10/2023	24/10/2023	24/10/2023	24/10/2023
TRH C ₁₀ - C ₁₄	µg/L	130	470	100	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	640	500	310	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	170	290	230	<100	<100
Total +ve TRH (C10-C36)	µg/L	940	1,300	640	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	170	440	130	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	700	560	410	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	150	<100	<100
Total +ve TRH (>C10-C40)	µg/L	880	1,000	690	<50	<50
Surrogate o-Terphenyl	%	85	70	100	97	85

svTRH (C10-C40) in Water			
Our Reference	UNITS	335606-12	335606-13
Your Reference		3365/SW210	3365/SW211
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water
Date extracted	-	23/10/2023	23/10/2023
Date analysed	-	24/10/2023	24/10/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50
Surrogate o-Terphenyl	%	110	92

PAHs in Water						
Our Reference		335606-7	335606-8	335606-9	335606-10	335606-11
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	23/10/2023	23/10/2023	23/10/2023	23/10/2023	23/10/2023
Date analysed	-	25/10/2023	25/10/2023	25/10/2023	25/10/2023	25/10/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	110	62	102	98	97

PAHs in Water			
Our Reference		335606-12	335606-13
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		29/10/2023- 31/08/2023	29/10/2023- 31/08/2023
Type of sample		Water	Water
Date extracted	-	23/10/2023	23/10/2023
Date analysed	-	25/10/2023	25/10/2023
Naphthalene	µg/L	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	114	98

Organochlorine Pesticides in Water						
Our Reference	UNITS	335606-7	335606-8	335606-9	335606-10	335606-11
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	23/10/2023	23/10/2023	23/10/2023	23/10/2023	23/10/2023
Date analysed	-	25/10/2023	25/10/2023	25/10/2023	25/10/2023	25/10/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	85	61	107	98	101

Organochlorine Pesticides in Water			
Our Reference		335606-12	335606-13
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		29/10/2023- 31/08/2023	29/10/2023- 31/08/2023
Type of sample		Water	Water
Date extracted	-	23/10/2023	23/10/2023
Date analysed	-	25/10/2023	25/10/2023
alpha-BHC	µg/L	<0.2	<0.2
HCB	µg/L	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2
Surrogate TCMX	%	115	101

PCBs in Water						
Our Reference	UNITS	335606-7	335606-8	335606-9	335606-10	335606-11
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	23/10/2023	23/10/2023	23/10/2023	23/10/2023	23/10/2023
Date analysed	-	25/10/2023	25/10/2023	25/10/2023	25/10/2023	25/10/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	85	61	107	98	101

PCBs in Water			
Our Reference	UNITS	335606-12	335606-13
Your Reference		3365/SW210	3365/SW211
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water
Date extracted	-	23/10/2023	23/10/2023
Date analysed	-	25/10/2023	25/10/2023
Aroclor 1016	µg/L	<2	<2
Aroclor 1221	µg/L	<2	<2
Aroclor 1232	µg/L	<2	<2
Aroclor 1242	µg/L	<2	<2
Aroclor 1248	µg/L	<2	<2
Aroclor 1254	µg/L	<2	<2
Aroclor 1260	µg/L	<2	<2
Surrogate TCMX	%	115	101

All metals in water - total						
Our Reference	UNITS	335606-7	335606-8	335606-9	335606-10	335606-11
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	19/10/2023	19/10/2023	19/10/2023	19/10/2023	19/10/2023
Date analysed	-	23/10/2023	23/10/2023	23/10/2023	23/10/2023	23/10/2023
Aluminium-Total	µg/L	160	2,200	350	110	80
Arsenic-Total	µg/L	2	<1	<1	1	1
Chromium-Total	µg/L	<1	2	<1	<1	<1
Copper-Total	µg/L	3	7	7	<1	<1
Iron-Total	µg/L	1,500	1,100	410	250	150
Mercury-Total	µg/L	<0.05	0.08	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	3	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	7	20	22	16	13

All metals in water - total					
Our Reference	UNITS	335606-12	335606-13	335606-15	335606-16
Your Reference		3365/SW210	3365/SW211	3365/DUP01	3365/DUP02
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	19/10/2023	19/10/2023	19/10/2023	19/10/2023
Date analysed	-	23/10/2023	23/10/2023	23/10/2023	23/10/2023
Aluminium-Total	µg/L	290	290	350	360
Arsenic-Total	µg/L	2	2	2	<1
Chromium-Total	µg/L	1	1	2	<1
Copper-Total	µg/L	<1	1	<1	6
Iron-Total	µg/L	690	580	710	380
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1
Zinc-Total	µg/L	24	6	23	14

Metals in Waters - Acid extractable

Our Reference		335606-1	335606-2	335606-3	335606-4	335606-5
Your Reference	UNITS	3365/GW201	3365/GW202	3356/GW203	3365/GW204	3365/GW206
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	19/10/2023	19/10/2023	19/10/2023	19/10/2023	19/10/2023
Date analysed	-	20/10/2023	20/10/2023	20/10/2023	20/10/2023	20/10/2023
Phosphorus - Total	mg/L	<0.05	0.3	<0.05	6.3	0.1

Metals in Waters - Acid extractable

Our Reference		335606-6	335606-7	335606-8	335606-9	335606-10
Your Reference	UNITS	3365/GW207	3365/SW101	3365/SW102	3365/SW103	3365/SW205
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	19/10/2023	19/10/2023	19/10/2023	19/10/2023	19/10/2023
Date analysed	-	20/10/2023	20/10/2023	20/10/2023	20/10/2023	20/10/2023
Phosphorus - Total	mg/L	<0.05	3.1	0.2	0.4	<0.1

Metals in Waters - Acid extractable

Our Reference		335606-11	335606-12	335606-13
Your Reference	UNITS	3365/SW207	3365/SW210	3365/SW211
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water
Date prepared	-	19/10/2023	19/10/2023	19/10/2023
Date analysed	-	20/10/2023	20/10/2023	20/10/2023
Phosphorus - Total	mg/L	<0.1	<0.1	<0.1

Miscellaneous Inorganics

Our Reference		335606-1	335606-2	335606-3	335606-4	335606-5
Your Reference	UNITS	3365/GW201	3365/GW202	3356/GW203	3365/GW204	3365/GW206
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/10/2023	18/10/2023	18/10/2023	18/10/2023	18/10/2023
Date analysed	-	18/10/2023	18/10/2023	18/10/2023	18/10/2023	18/10/2023
Total Nitrogen in water	mg/L	0.8	1.4	<0.1	<0.1	0.3
Phosphate as P in water	mg/L	0.01	0.16	0.04	0.04	0.056

Miscellaneous Inorganics

Our Reference		335606-6	335606-7	335606-8	335606-9	335606-10
Your Reference	UNITS	3365/GW207	3365/SW101	3365/SW102	3365/SW103	3365/SW205
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/10/2023	18/10/2023	18/10/2023	18/10/2023	18/10/2023
Date analysed	-	18/10/2023	18/10/2023	18/10/2023	18/10/2023	18/10/2023
Total Suspended Solids	mg/L	[NA]	69	450	54	12
Total Nitrogen in water	mg/L	0.2	39	3.8	1.8	0.2
Phosphate as P in water	mg/L	0.008	1.7	<0.005	0.11	0.007
Chlorophyll a	mg/m ³	[NA]	2	10	<1	1

Miscellaneous Inorganics

Our Reference		335606-11	335606-12	335606-13	335606-14
Your Reference	UNITS	3365/SW207	3365/SW210	3365/SW211	3365/GWDUP01
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	18/10/2023	18/10/2023	18/10/2023	[NA]
Date analysed	-	18/10/2023	18/10/2023	18/10/2023	[NA]
Total Suspended Solids	mg/L	9	18	22	[NA]
Total Nitrogen in water	mg/L	0.2	0.1	0.2	[NA]
Phosphate as P in water	mg/L	0.006	0.005	0.006	[NA]
Chlorophyll a	mg/m ³	3	1	2	[NA]
pH	pH Units	[NA]	[NA]	[NA]	6.3
Electrical Conductivity	µS/cm	[NA]	[NA]	[NA]	13,000

Microbiological Testing						
Our Reference		335606-1	335606-2	335606-3	335606-4	335606-5
Your Reference	UNITS	3365/GW201	3365/GW202	3356/GW203	3365/GW204	3365/GW206
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	19/10/2023	19/10/2023	19/10/2023	19/10/2023	19/10/2023
Faecal Coliforms	cfu/100mL	<100	<1000	<100	< 18 MPN/100mL	20 MPN/100mL

Microbiological Testing						
Our Reference		335606-6	335606-7	335606-8	335606-9	335606-10
Your Reference	UNITS	3365/GW207	3365/SW101	3365/SW102	3365/SW103	3365/SW205
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	19/10/2023	19/10/2023	19/10/2023	19/10/2023	19/10/2023
E. coli	cfu/100mL	[NA]	<18 MPN/100mL	20 MPN/100mL	<18 MPN/100mL	<10
Faecal Coliforms	cfu/100mL	< 18 MPN/100mL	<18 MPN/100mL	20 MPN/100mL	<18 MPN/100mL	<10

Microbiological Testing				
Our Reference		335606-11	335606-12	335606-13
Your Reference	UNITS	3365/SW207	3365/SW210	3365/SW211
Date Sampled		29/10/2023-31/08/2023	29/10/2023-31/08/2023	29/10/2023-31/08/2023
Type of sample		Water	Water	Water
Date of testing	-	19/10/2023	19/10/2023	19/10/2023
E. coli	cfu/100mL	<10	20^A	<10
Faecal Coliforms	cfu/100mL	<10	20^A	<10

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determined stoichiometrically from the base metal concentration.
Org-020	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-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date extracted	-			19/10/2023	8	19/10/2023	20/10/2023		19/10/2023	[NT]
Date analysed	-			20/10/2023	8	20/10/2023	23/10/2023		20/10/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	8	<10	<10	0	101	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	8	<10	<10	0	101	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	8	102	87	16	97	[NT]
Surrogate Toluene-d8	%		Org-023	98	8	98	84	15	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	102	8	103	127	21	95	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	335606-9
Date extracted	-			23/10/2023	7	23/10/2023	23/10/2023		23/10/2023	23/10/2023
Date analysed	-			24/10/2023	7	24/10/2023	24/10/2023		24/10/2023	24/10/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	7	130	110	17	103	107
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	7	640	650	2	103	114
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	7	170	170	0	86	108
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	7	170	150	12	103	107
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	7	700	710	1	103	114
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	7	<100	<100	0	86	108
Surrogate o-Terphenyl	%		Org-020	94	7	85	84	1	83	107

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	335606-9
Date extracted	-			23/10/2023	7	23/10/2023	23/10/2023		23/10/2023	23/10/2023
Date analysed	-			25/10/2023	7	25/10/2023	25/10/2023		25/10/2023	25/10/2023
Naphthalene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	83	125
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	79	103
Fluorene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	84	114
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	73	98
Anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	78	98
Pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	80	98
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	76	100
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	94	101
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	121	7	110	96	14	81	101

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	335606-9
Date extracted	-			23/10/2023	7	23/10/2023	23/10/2023		23/10/2023	23/10/2023
Date analysed	-			25/10/2023	7	25/10/2023	25/10/2023		25/10/2023	25/10/2023
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	83	100
HCB	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	83	98
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	69	90
delta-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	74	95
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	71	94
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	82	101
Dieldrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	81	101
Endrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	70	109
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	80	107
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	86	128
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	121	7	85	77	10	84	103

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	335606-9
Date extracted	-			23/10/2023	7	23/10/2023	23/10/2023		23/10/2023	23/10/2023
Date analysed	-			25/10/2023	7	25/10/2023	25/10/2023		25/10/2023	25/10/2023
Aroclor 1016	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	67	94
Aroclor 1260	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021/022/025	121	7	85	77	10	84	103

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	335606-8
Date prepared	-			19/10/2023	7	19/10/2023	19/10/2023		19/10/2023	19/10/2023
Date analysed	-			23/10/2023	7	23/10/2023	23/10/2023		23/10/2023	23/10/2023
Aluminium-Total	µg/L	10	Metals-022	<10	7	160	160	0	104	#
Arsenic-Total	µg/L	1	Metals-022	<1	7	2	2	0	101	93
Chromium-Total	µg/L	1	Metals-022	<1	7	<1	<1	0	101	96
Copper-Total	µg/L	1	Metals-022	<1	7	3	3	0	102	94
Iron-Total	µg/L	10	Metals-022	<10	7	1500	1500	0	103	#
Mercury-Total	µg/L	0.05	Metals-021	<0.05	7	<0.05	<0.05	0	106	114
Lead-Total	µg/L	1	Metals-022	<1	7	<1	<1	0	102	83
Selenium-Total	µg/L	1	Metals-022	<1	7	<1	<1	0	101	90
Zinc-Total	µg/L	1	Metals-022	<1	7	7	6	15	104	96

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	8	19/10/2023	19/10/2023		[NT]	[NT]
Date analysed	-			[NT]	8	23/10/2023	23/10/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	8	2200	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	8	<1	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	8	2	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	8	7	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	8	1100	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	8	0.08	0.08	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	8	3	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	8	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	8	20	[NT]		[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	335606-2
Date prepared	-			19/10/2023	1	19/10/2023	19/10/2023		19/10/2023	19/10/2023
Date analysed	-			20/10/2023	1	20/10/2023	20/10/2023		20/10/2023	20/10/2023
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	<0.05	<0.05	0	94	109

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	7	19/10/2023	19/10/2023		[NT]	[NT]
Date analysed	-			[NT]	7	20/10/2023	20/10/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	7	3.1	3.0	3	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	335606-2
Date prepared	-			18/10/2023	1	18/10/2023	18/10/2023		18/10/2023	18/10/2023
Date analysed	-			18/10/2023	1	18/10/2023	18/10/2023		18/10/2023	18/10/2023
Total Suspended Solids	mg/L	5	Inorg-019	<5	11	9	[NT]		91	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	1	0.8	0.8	0	96	85
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	1	0.01	0.01	0	106	90
Chlorophyll a	mg/m³	1	INORG-119	<1	11	3	[NT]		114	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	18/10/2023	18/10/2023		[NT]	[NT]
Date analysed	-			[NT]	11	18/10/2023	18/10/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.2	0.1	67	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	0.006	0.005	18	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

vTRH in Water (C6-C9) NEPM - The PQL has been raised as sample 335606-7 was foamy and therefore required a dilution.

8 Metals in Waters - total - The PQL has been raised 2 times for samples 335606-10 to 13 due to suppression of the internal standard, which required the samples to be diluted.

This is likely due to the high level of salts in the sample.

All metals in water - total - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Microbiology analysed by Sonic Food & Water Testing. Report No. W2324502-505

^ The stated result may be statistically unreliable

A: Approximate

The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

Appendix Y – Event 12 Data

Table 100: In situ water quality data and statistical summary for Crookhaven surface waters during Event 12.

PROJECT INFORMATION												
PROJECT NUMBER: P1203365				DATE: 14/11/2023								
CLIENT: Sealark Pty Ltd				SAMPLED BY: BTM & TR								
SITE LOCATION: West Culburra												
IN SITU WATER QUALITY PARAMETERS												
Date	Bore / Location ID	Sample Type (S, D or T)	Time	Depth to Water (TOC)	Temp (°C)	pH	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% Sat)	EC µS/cm	Salinity (ppt)	Turbidity (ntu)
14/11/2023	SW201	S (Dry)			20.50	7.65	91.40		87.90	59514.00	39.70	
14/11/2023	SW201	D (Dry)			20.50	7.65	91.20		87.60	59424.00	39.88	
14/11/2023	SW202	S (Dry)			20.00	7.77	89.00		93.30	59303.00	39.74	
14/11/2023	SW202	D (Dry)			19.80	7.78	88.60		94.00	59413.00	39.82	
14/11/2023	SW203	S (Dry)			19.90	7.78	88.70		90.10	59604.00	39.97	
14/11/2023	SW203	D (Dry)			19.90	7.79	88.10		91.20	59538.00	39.92	
14/11/2023	SW204	S (Dry)			20.00	7.57	72.80		69.50	60479.00	40.63	
14/11/2023	SW204	D (Dry)										
14/11/2023	SW205	S (Dry)			19.30	7.69	77.00		87.00	59432.00	39.83	
14/11/2023	SW205	D (Dry)			19.30	7.70	75.70		86.50	59702.00	40.04	
14/11/2023	SW206	S (Dry)			19.10	7.91	73.70		90.10	60088.00	40.33	
14/11/2023	SW206	D (Dry)			19.10	7.91	73.50		90.30	60165.00	40.39	
14/11/2023	SW207	S (Dry)			19.30	7.94	73.60		91.60	59940.00	40.22	
14/11/2023	SW207	D (Dry)			19.30	7.95	73.30		92.30	59964.00	40.24	
14/11/2023	SW208	S (Dry)			18.70	7.89	76.90		96.30	47328.00	30.85	
14/11/2023	SW208	D (Dry)			18.70	7.89	76.50		95.90	60763.00	40.84	
14/11/2023	SW209	S (Dry)			20.10	7.91	72.30		88.60	59097.00	39.58	
14/11/2023	SW209	D (Dry)			19.60	7.86	71.30		82.40	59580.00	39.95	
14/11/2023	SW210	S (Dry)			20.00	7.95	71.40		88.30	59128.00	39.61	
14/11/2023	SW210	D (Dry)			20.00	7.94	71.60		88.00	59202.00	39.66	
14/11/2023	SW211	S (Dry)			20.70	7.93	72.40		87.30	32798.00	20.54	
14/11/2023	SW211	D (Dry)			20.00	7.89	71.40		87.60	69302.00	39.74	
14/11/2023	SW212	S (Dry)			19.40	7.97	72.50		93.40		35.06	
14/11/2023	SW212	D (Dry)			19.40	7.93	71.90		92.50		39.90	
14/11/2023	SW213	S (Dry)			19.50	8.04	65.40		92.40		37.45	
14/11/2023	SW213	D (Dry)			19.50	8.04	64.70		91.80		39.90	
14/11/2023	SW214	S (Dry)			19.50	7.88	66.20		80.60		39.82	
14/11/2023	SW214	D (Dry)			19.60	7.88	65.70		81.80		39.77	
14/11/2023	SW215	S (Dry)			18.80	7.83	77.90		95.10		40.66	
14/11/2023	SW215	D (Dry)			18.70	7.88	77.00		96.90		40.98	
14/11/2023	SW216	S (Dry)			18.20	5.02	267.90		100.70		39.86	
14/11/2023	SW216	D (Dry)			18.20	5.05	266.60		100.70		39.96	
14/11/2023	SW217	S (Dry)			18.20	8.15	56.10		97.40		41.25	
14/11/2023	SW217	D (Dry)			18.20	8.16	54.70		96.60		41.27	
EVENT STATISTICAL SUMMARY												
Number of results					33.00	33.00	33.00		33.00	21.00	33.00	
Maximum Value					20.70	8.16	267.90		100.70	69302.00	41.27	
Mean Value					19.42	7.70	86.27		90.48	58274.48	39.01	
Median Value					19.50	7.89	73.50		91.20	59538.00	39.90	
Minimum Value					18.20	5.02	54.70		69.50	32798.00	20.54	

Table 103: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 12.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW101	SW101	15 Nov 2023	<10	150	370	<100	510	<18	<18	0.061	<0.2	35	2.4	1.7	22	0.16	0.002	<0.001	0.005	1.6
3365/SW102	SW102	14 Nov 2023	<10	370	540	<100	920	>16,000	>16,000	0.008	<0.2	3.1	0.2	0.078	84	0.62	<0.001	<0.001	0.002	0.26
3365/SW103	SW103	14 Nov 2023	<10	380	140	<100	520	100	100	0.006	<0.2	2.2	0.08	<0.005	14	0.21	<0.001	0.001	0.006	0.12

Statistics																			
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	3	3	0	3	2	2	3	0	3	3	2	3	3	1	1	3
Minimum Concentration			<10	150	140	<100	510	<18	<18	0.006	<0.2	2.2	0.08	<0.005	14	0.16	<0.001	0.001	0.002
Maximum Concentration			<10	380	540	<100	920	>16,000	>16,000	0.061	<0.2	35	2.4	1.7	84	0.62	0.002	0.001	0.006
Average Concentration *			5	300	350	50	650	5,370	5,370	0.025	0.1	13	0.89	0.59	40	0.33	0.001	0.00067	0.0043
Median Concentration *			5	370	370	50	520	100	100	0.008	0.1	3.1	0.2	0.078	22	0.21	0.0005	0.0005	0.005

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																			
3365/SW101	SW101	15 Nov 2023	<0.001	<0.00005	<0.001	0.013	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW102	SW102	14 Nov 2023	0.001	0.0002	<0.001	0.012	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW103	SW103	14 Nov 2023	0.003	<0.00005	<0.001	0.027	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			0.001	<0.00005	<0.001	0.012	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			0.003	0.0002	<0.001	0.027	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.0015	0.000083	0.0005	0.017	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.001	0.000025	0.0005	0.013	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH														
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Field ID	Location Code	Date																		
3365/SW101	SW101	15 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW102	SW102	14 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW103	SW103	14 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs								TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50	

Field ID	Location Code	Date	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	64	380	120	560
3365/SW101	SW101	15 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	330	600	240	1,200
3365/SW102	SW102	14 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	330	600	240	1,200
3365/SW103	SW103	14 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	460	<100	460

Statistics																
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	0	2	3	2	3
Minimum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	380	<100	460
Maximum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	330	600	240	1,200
Average Concentration *			0.00025	0.00005	1	1	1	1	1	1	1	5	140	480	137	740
Median Concentration *			0.00025	0.00005	1	1	1	1	1	1	1	5	64	460	120	560

* A Non Detect Multiplier of 0.5 has been applied.

Table 104: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event 12.

EQL	TRH					Biological			Halogenated Benzenes	Inorganics				Metals									
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Selenium	Zinc	
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01	0.001	0.00005	0.001	0.001	

Location Code	Date																						
SW201	14 Nov 2023	<10	<50	<100	<100	<50	<1	<1	<0.001	<0.2	0.1	0.06	0.01	28	0.12	0.001	<0.001	<0.001	0.25	<0.001	<0.00005	<0.001	0.003
SW201	14 Nov 2023	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.1	0.05	0.01	22	0.1	0.001	<0.001	<0.001	0.22	<0.001	<0.00005	<0.001	0.002
SW202	14 Nov 2023	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.1	<0.05	0.008	18	0.09	0.001	<0.001	<0.001	0.21	<0.001	<0.00005	<0.001	<0.001
SW202	14 Nov 2023	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	<0.1	<0.05	0.008	19	0.04	0.001	<0.001	<0.001	0.25	<0.001	<0.00005	<0.001	0.006
SW203	14 Nov 2023	<10	<50	<100	<100	<50	1&<10	1&<10	<0.001	<0.2	0.1	<0.05	0.007	20	0.03	0.001	<0.001	<0.001	0.06	<0.001	<0.00005	<0.001	0.003
SW203	14 Nov 2023	<10	<50	<100	<100	<50	1&<10	1&<10	<0.001	<0.2	0.1	<0.05	0.008	18	0.07	0.001	<0.001	<0.001	0.16	<0.001	<0.00005	<0.001	0.002
SW204	15 Nov 2023	<10	<50	<100	<100	<50	1&<10	1&<10	0.003	<0.2	0.3	0.08	0.02	98	0.16	0.001	<0.001	<0.001	0.34	<0.001	<0.00005	<0.001	0.002
SW204	15 Nov 2023	<10	<50	<100	<100	<50	100	100	0.009	<0.2	0.2	0.3	0.02	39	0.39	0.004	<0.001	0.003	3.5	<0.001	<0.00005	<0.001	0.005
SW205	14 Nov 2023	<10	<50	<100	<100	<50	10	10	0.002	<0.2	0.1	<0.05	0.007	23	0.08	0.001	<0.001	<0.001	0.15	<0.001	<0.00005	<0.001	<0.001
SW205	14 Nov 2023	<10	<50	<100	<100	<50	10	10	0.002	<0.2	0.1	<0.05	0.007	18	0.08	0.001	<0.001	<0.001	0.15	<0.001	<0.00005	<0.001	<0.001
SW206	14 Nov 2023	<10	<50	<100	<100	<50	1&<10	1&<10	<0.001	<0.2	<0.1	<0.05	0.009	8	0.04	0.001	<0.001	<0.001	0.07	<0.001	<0.00005	<0.001	0.001
SW206	14 Nov 2023	<10	<50	<100	<100	<50	1&<10	1&<10	0.002	<0.2	0.1	<0.05	0.007	18	0.03	0.001	<0.001	<0.001	0.06	<0.001	<0.00005	<0.001	<0.001
SW207	14 Nov 2023	<10	<50	160	<100	160	<10	<10	<0.001	<0.2	<0.1	<0.1	0.007	21	0.04	0.001	<0.001	<0.001	0.08	<0.001	<0.00005	<0.001	0.001
SW207	14 Nov 2023	<10	<50	<100	<100	<50	1^A	1^A	0.002	<0.2	<0.1	<0.1	0.006	22	0.04	0.001	<0.001	<0.001	0.09	<0.001	<0.00005	<0.001	<0.001
SW208	14 Nov 2023	<10	<50	<100	<100	<50	<1	<1	0.002	<0.2	<0.1	<0.05	0.006	25	0.04	0.001	<0.001	<0.001	0.06	<0.001	<0.00005	<0.001	<0.001
SW208	14 Nov 2023	<10	<50	<100	<100	<50	<10	<10	0.003	<0.2	<0.1	<0.05	0.006	23	0.03	0.001	<0.001	<0.001	0.07	<0.001	<0.00005	<0.001	<0.001
SW209	14 Nov 2023	<10	<50	<100	<100	<50	1&<10	1&<10	0.003	<0.2	0.1	<0.05	0.007	24	0.05	0.001	<0.001	<0.001	0.08	<0.001	<0.00005	<0.001	0.001
SW209	14 Nov 2023	<10	<50	<100	<100	<50	<1	<1	<0.001	<0.2	0.1	<0.05	0.007	21	0.04	<0.001	<0.001	<0.001	0.07	<0.001	<0.00005	<0.001	<0.001
SW210	14 Nov 2023	<10	<50	<100	<100	<50	<1	<1	0.001	<0.2	<0.1	<0.05	0.006	23	0.11	0.001	<0.001	<0.001	0.2	<0.001	<0.00005	<0.001	0.001
SW210	14 Nov 2023	<10	<50	<100	<100	<50	<1	<1	0.002	<0.2	0.1	<0.05	0.006	16	0.03	0.001	<0.001	<0.001	0.08	<0.001	<0.00005	<0.001	<0.001
SW211	14 Nov 2023	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.1	<0.05	0.007	14	0.07	0.001	<0.001	<0.001	0.15	<0.001	<0.00005	<0.001	0.001
SW211	14 Nov 2023	<10	<50	<100	<100	<50	<1	<1	<0.001	<0.2	0.1	<0.05	0.007	22	0.04	0.001	<0.001	<0.001	0.06	<0.001	<0.00005	<0.001	<0.001
SW212	14 Nov 2023	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.1	<0.05	0.007	27	0.04	0.001	<0.001	<0.001	0.08	<0.001	<0.00005	<0.001	<0.001
SW212	14 Nov 2023	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.1	<0.05	0.006	18	0.05	0.001	<0.001	<0.001	0.12	<0.001	<0.00005	<0.001	<0.001
SW213	14 Nov 2023	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.1	<0.05	0.007	22	0.05	0.001	<0.001	<0.001	0.08	<0.001	<0.00005	<0.001	0.002
SW213	14 Nov 2023	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.1	<0.05	0.006	22	0.05	0.001	<0.001	<0.001	0.08	<0.001	<0.00005	<0.001	<0.001
SW214	14 Nov 2023	<10	<50	<100	<100	<50	6A	6A	0.001	<0.2	0.1	<0.05	0.007	26	0.06	0.001	<0.001	<0.001	0.1	<0.001	<0.00005	<0.001	<0.001
SW214	14 Nov 2023	<10	<50	<100	<100	<50	2^A	2^A	<0.001	<0.2	0.1	<0.05	0.007	18	0.07	0.001	<0.001	<0.001	0.11	<0.001	<0.00005	<0.001	0.002
SW215	14 Nov 2023	<10	<50	<100	<100	<50	1&<10	1&<10	0.001	<0.2	0.1	<0.05	0.008	20	0.02	0.001	<0.001	<0.001	0.04	<0.001	<0.00005	<0.001	<0.001
SW215	14 Nov 2023	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.1	<0.05	0.007	26	0.02	0.001	<0.001	<0.001	0.05	<0.001	<0.00005	<0.001	<0.001
SW216	14 Nov 2023	<10	<50	<100	<100	<50	<1	<1	0.002	<0.2	0.1	<0.05	<0.005	28	0.02	0.001	<0.001	<0.001	0.05	<0.001	<0.00005	<0.001	<0.001
SW216	14 Nov 2023	<10	<50	<100	<100	<50	1&<10	1&<10	0.002	<0.2	0.1	<0.05	<0.005	24	0.02	0.001	<0.001	<0.001	0.04	<0.001	<0.00005	<0.001	0.002
SW217	14 Nov 2023	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.1	<0.05	<0.005	24	0.01	0.001	<0.001	<0.001	0.03	<0.001	<0.00005	<0.001	<0.001
SW217	14 Nov 2023	<10	<50	<100	<100	<50	1&<10	1&<10	0.002	<0.2	<0.1	<0.05	0.007	18	0.01	0.001	<0.001	<0.001	0.02	<0.001	<0.00005	<0.001	0.002

Statistics																						
Number of Results	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects	0	0	1	0	1	3	3	17	0	26	4	31	34	34	33	0	1	34	0	0	0	16
Minimum Concentration	<10	<50	<100	<100	<50	<1	<1	0.001	<0.2	0.1	0.05	<0.005	8	0.01	0.001	<0.001	<0.001	0.02	<0.001	<0.00005	<0.001	0.001
Maximum Concentration	<10	<50	160	<100	160	100	100	0.009	<0.2	0.3	0.3	0.02	98	0.39	0.004	<0.001	0.003	3.5	<0.001	<0.00005	<0.001	0.006
Average Concentration *	10	50	102	100	53	19	19	0.0017	0.2	0.11	0.061	0.0077	24	0.063	0.0011	0.001	0.0011	0.21	0.001	0.00005	0.001	0.0016
Median Concentration *	10	50	100	100	50	10	10	0.001	0.2	0.1	0.05	0.007	22	0.04	0.001	0.001	0.001	0.08	0.001	0.00005	0.001	0.001

* A Non Detect Multiplier of 1 has been applied.

[illegible][illegible][illegible]

* A Non Detect Multiplier of 1 has been applied.

[illegible][illegible][illegible]

* A Non Detect Multiplier of 1 has been applied.



	PCBs							TPH				
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	2	2	2	2	2	2	2	10	50	100	100	50

Location Code	Date												
SW201	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW201	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW202	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW202	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW203	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW203	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW204	15 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW204	15 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW205	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW205	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW206	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW206	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW207	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	140	<100	140
SW207	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW208	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW208	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW209	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW209	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW210	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW210	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW211	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW211	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW212	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW212	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW213	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW213	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW214	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW214	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW215	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW215	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW216	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW216	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW217	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW217	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50

Statistics													
Number of Results	34	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects	0	0	0	0	0	0	0	0	0	0	1	0	1
Minimum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	140	<100	140
Average Concentration *	2	2	2	2	2	2	2	2	10	50	101	100	53
Median Concentration *	2	2	2	2	2	2	2	2	10	50	100	100	50

* A Non Detect Multiplier of 1 has been applied.

Table 105: Laboratory water analysis and statistical summary for Lake Wollumbulla surface waters during Event 12.



	TRH					Biological			Halogenated Benzenes	Inorganics				Metals								
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Selenium	Zinc
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01	0.001	0.00005	0.001	0.001

Location Code	Date																						
SW302	13 Nov 2023	<10	260	220	<100	480	<18	<18	0.003	<0.2	1.6	0.1	0.02	81	3.5	<0.001	0.003	0.003	5.3	0.005	0.0002	<0.001	0.011
SW302	13 Nov 2023	<10	160	<100	<100	160	<18	<18	<0.001	<0.2	1.5	0.1	0.02	35	3.1	<0.001	0.003	0.003	5	0.005	0.0002	<0.001	0.009
SW303	13 Nov 2023	<10	140	<100	<100	140	<18	<18	0.02	<0.2	1.5	0.06	<0.005	78	0.04	0.002	<0.001	<0.001	0.47	<0.001	<0.00005	<0.001	0.004
SW303	13 Nov 2023	<10	<50	<100	<100	<50	<18	<18	0.01	<0.2	1.4	0.09	<0.005	70	0.46	0.003	0.001	<0.001	1.6	0.001	<0.00005	<0.001	0.01
SW304	13 Nov 2023	<10	<50	<100	<100	<50	20	20	0.004	<0.2	0.7	<0.05	<0.005	26	0.36	<0.001	<0.001	0.002	3.1	<0.001	<0.00005	<0.001	0.03
SW304	13 Nov 2023	<10	<50	<100	<100	<50	<18	<18	<0.001	<0.2	0.7	<0.05	<0.005	27	0.48	<0.001	0.001	0.001	5.6	<0.001	<0.00005	<0.001	0.028
SW305	13 Nov 2023	<10	<50	110	<100	110	<18	<18	0.003	<0.2	1.1	0.06	<0.005	22	0.09	<0.001	<0.001	<0.001	0.33	<0.001	<0.00005	<0.001	0.003
SW305	13 Nov 2023	<10	<50	<100	<100	<50	<18	<18	0.002	<0.2	0.9	0.07	<0.005	28	0.1	<0.001	<0.001	<0.001	0.33	<0.001	<0.00005	<0.001	0.001
SW306	13 Nov 2023	<10	<50	<100	<100	<50	<18	<18	0.002	<0.2	1.5	0.07	<0.005	80	0.3	0.002	<0.001	<0.001	0.48	<0.001	<0.00005	<0.001	0.004
SW306	13 Nov 2023	<10	<50	<100	<100	<50	<18	<18	<0.001	<0.2	1.4	0.08	<0.005	58	0.29	0.002	<0.001	<0.001	0.52	<0.001	<0.00005	<0.001	0.003
SW307	14 Nov 2023	<10	420	170	<100	590	<18	<18	<0.001	<0.2	1.6	<0.05	<0.005	6	0.51	<0.001	0.002	0.002	0.73	<0.001	0.00006	<0.001	0.018
SW307	14 Nov 2023	<10	280	110	<100	400	<18	<18	<0.001	<0.2	1.1	<0.05	<0.005	6	0.45	<0.001	0.002	0.001	0.72	<0.001	<0.00005	<0.001	0.015

Statistics																						
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	0	5	4	0	6	1	1	7	0	12	8	2	12	12	4	6	6	12	3	3	0	12
Minimum Concentration	<10	<50	<100	<100	<50	<18	<18	<0.001	<0.2	0.7	<0.05	<0.005	6	0.04	<0.001	0.001	0.001	0.33	0.001	<0.00005	<0.001	0.001
Maximum Concentration	<10	420	220	<100	590	20	20	0.02	<0.2	1.6	0.1	0.02	81	3.5	0.003	0.003	0.003	5.6	0.005	0.0002	<0.001	0.03
Average Concentration *	10	134	118	100	182	18	18	0.0041	0.2	1.2	0.069	0.0075	43	0.81	0.0014	0.0015	0.0015	2	0.0017	0.000076	0.001	0.011
Median Concentration *	10	50	100	100	80	18	18	0.002	0.2	1.4	0.065	0.005	31.5	0.405	0.001	0.001	0.001	0.725	0.001	0.00005	0.001	0.0095

* A Non Detect Multiplier of 1 has been applied.



EQ	Organochlorine Pesticides																		
	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Location Code	Date																		
SW302	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW302	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW303	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW303	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW304	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW304	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW305	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW305	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW306	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW306	13 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW307	14 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SW307	14 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																			
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Median Concentration *	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

* A Non Detect Multiplier of 1 has been applied.



EQL	PAH																
	Benzo(b,i,k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ	PAHs (Sum of positives)
	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L
EQL	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001

Location Code	Date																
SW302	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW302	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW303	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW303	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW304	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW304	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW305	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW305	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW306	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW306	13 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW307	14 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
SW307	14 Nov 2023	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001

Statistics																	
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
Maximum Concentration	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0005	<0.0001
Average Concentration *	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001
Median Concentration *	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0005	0.0001

* A Non Detect Multiplier of 1 has been applied.



	PCBs							TPH				
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	2	2	2	2	2	2	2	10	50	100	100	50

Location Code	Date												
SW302	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	74	370	<100	440
SW302	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	190	<100	190
SW303	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	150	<100	150
SW303	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW304	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW304	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW305	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	120	<100	120
SW305	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW306	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW306	13 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
SW307	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	550	<100	550
SW307	14 Nov 2023	<2	<2	<2	<2	<2	<2	<2	<10	<50	360	<100	360

Statistics													
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	0	0	0	0	0	0	0	0	0	1	6	0	6
Minimum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration	<2	<2	<2	<2	<2	<2	<2	<2	<10	74	550	<100	550
Average Concentration *	2	2	2	2	2	2	2	2	10	52	195	100	176
Median Concentration *	2	2	2	2	2	2	2	2	10	50	110	100	85

* A Non Detect Multiplier of 1 has been applied.

Table 106: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 12.

	Biological	Inorganics		
	Faecal Coliforms	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	mg/L	mg/L	mg/L
EQL	1	0.1	0.05	0.005

Field ID	Location Code	Date				
3365/GW201	GW201	15 Nov 2023	<100	0.1	0.1	<0.005
3365/GW202	GW202	15 Nov 2023	<100	0.1	0.3	0.15
3365/GW203	GW203	15 Nov 2023	<10	<0.1	<0.05	0.02
3365/GW204	GW204	15 Nov 2023	<100	<0.1	0.2	0.34
3365/GW206	GW206	14 Nov 2023	<100	0.3	0.2	0.04
3365/GW207	GW207	14 Nov 2023	<18	0.2	0.06	<0.005

Statistics					
Number of Results			6	6	6
Number of Detects			0	4	5
Minimum Concentration			<10	0.1	<0.05
Maximum Concentration			<100	0.3	0.3
Average Concentration *			36	0.13	0.15
Median Concentration *			50	0.1	0.15

* A Non Detect Multiplier of 0.5 has been applied.

Appendix Z – Event 12 Documents

SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0											
Name	P1203365 – Water Sampling, West Culburra, NSW										
Martens Contact Officer	Trystan Richards					Contact Email	trichards@martens.com.au				
Sampling and Shipping	Sample Date	13.11.2023 – 15.11.2023		Dispatch Date	15.11.2023		Turnaround Time			Standard	
	Our Reference	P1203365COC33V01				Shipping Method (X)	Hand		X	Post	Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt		Phone	02 9910 6200		Fax		Email	samplereceipt@envirolabservices.com.au	
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address			trichards@martens.com.au and CC, ANorris@martens.com.au	

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
1 3365/GW201						X	
2 3365/GW202						X	
3 3365/GW203						X	
4 3365/GW204						X	
5 3365/GW206						X	
6 3365/GW207						X	
7 3365/SW101	X	X	X	X			
8 3365/SW102	X	X	X	X			
57 3365/SW103	X	X	X	X			

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli.	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
9 3365/SW201 W/1	X	X	X	X			
10 3365/SW201 W/2	X	X	X	X			
11 3365/SW202 W/1	X	X	X	X			
12 3365/SW202 W/2	X	X	X	X			
13 3365/SW203 W/1	X	X	X	X			
14 3365/SW203 W/2	X	X	X	X			
58 3365/SW204 W/1	X	X	X	X			
59 3365/SW204 W/2	X	X	X	X			
15 3365/SW205 W/1	X	X	X	X			
16 3365/SW205 W/1	X	X	X	X			
17 3365/SW206 W/1	X	X	X	X			
18 3365/SW206 W/2	X	X	X	X			
19 3365/SW207 W/1	X	X	X	X			
20 3365/SW207 W/2	X	X	X	X			
21 3365/SW208 W/1	X	X	X	X			
22 3365/SW208 W/2	X	X	X	X			
23 3365/SW209 W/1	X	X	X	X			
24 3365/SW209 W/2	X	X	X	X			
25 3365/SW210 W/1	X	X	X	X			
26 3365/SW210 W/2	X	X	X	X			
27 3365/SW211 W/1	X	X	X	X			
28 3365/SW211 W/2	X	X	X	X			
29 3365/SW212 W/1	X	X	X	X			
30 3365/SW212 W/2	X	X	X	X			
31 3365/SW213 W/1	X	X	X	X			
32 3365/SW213 W/2	X	X	X	X			
33 3365/SW214 W/1	X	X	X	X			
34 3365/SW214 W/2	X	X	X	X			
35 3365/SW215 W/1	X	X	X	X			
36 3365/SW215 W/2	X	X	X	X			

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
37 3365/SW216 W/1	X	X	X	X			
38 3365/SW216 W/2	X	X	X	X			
39 3365/SW217 W/1	X	X	X	X			
40 3365/SW217 W/2	X	X	X	X			
41 3365/SW302 W/1	X	X	X	X			
42 3365/SW302 W/2	X	X	X	X			
43 3365/SW303 W/1	X	X	X	X			
44 3365/SW303 W/2	X	X	X	X			
45 3365/SW304 W/1	X	X	X	X			
46 3365/SW304 W/2	X	X	X	X			
47 3365/SW305 W/1	X	X	X	X			
48 3365/SW305 W/2	X	X	X	X			
49 49 3365/SW306 W/2	X	X	X	X			
50 3365/SW306 W/1	X	X	X	X			
50 3365/SW306 W/2	X	X	X	X			
51 3365/SW307 W/1	X	X	X	X			
52 3365/SW307 W/2	X	X	X	X			
53 3365/DUP01	X						
54 3365/DUP02	X						
55 3365/DUP03	X						
60 3365/DUP04	X						
56 3365/GW DUP01					X		

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0											
Name	P1203365 – Water Sampling, West Culburra, NSW										
Martens Contact Officer	Trystan Richards					Contact Email	trichards@martens.com.au				
Sampling and Shipping	Sample Date	18.09.2023 – 20.09.2023		Dispatch Date	21.09.2023		Turnaround Time			Standard	
	Our Reference	P1203365COC31V01				Shipping Method (X)	Hand	X	Post		Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt		Phone	02 9910 6200		Fax		Email	samplereceipt@envirolabservices.com.au	
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address			trichards@martens.com.au and CC_ANorris@martens.com.au	

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
1 3365/GW01						X	
2 3365/GW02						X	
3 3365/GW03						X	
4 3365/GW04						X	
5 3365/GW06						X	
6 3365/GW07						X	
						X	
7 3365/SW101	X	X	X	X			Date Received 15/11/23 Time Received 11:10 Received By: JN
8 3365/SW102	X	X	X	X			Temp: Cool/Ambient Cooling (Ice)/Icepack Security: Intact/Broken/None

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 337868

Date Received 15/11/23

Time Received 11:10

Received By: JN

Temp: Cool/Ambient

Cooling (Ice)/Icepack

Security: Intact/Broken/None

Head Office
Suite 201, 20 George Street
Hornsby NSW 2077, Australia
Ph 02 9476 9999 Fax 02 9476 8767

> mail@martens.com.au
> www.martens.com.au
MARTENS & ASSOCIATES P/L
ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

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Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
9 3365/SW201 W/1	X	X	X	X			
10 3365/SW201 W/2	X	X	X	X			
11 3365/SW202 W/1	X	X	X	X			
12 3365/SW202 W/2	X	X	X	X			
13 3365/SW203 W/1	X	X	X	X			
14 3365/SW203 W/2	X	X	X	X			
15 3365/SW205 W/1	X	X	X	X			
16 3365/SW205 W/2	X	X	X	X			
17 3365/SW206 W/1	X	X	X	X			
18 3365/SW206 W/2	X	X	X	X			
19 3365/SW207 W/1	X	X	X	X			
20 3365/SW207 W/2	X	X	X	X			
21 3365/SW208 W/1	X	X	X	X			
22 3365/SW208 W/2	X	X	X	X			
23 3365/SW209 W/1	X	X	X	X			
24 3365/SW209 W/2	X	X	X	X			
25 3365/SW210 W/1	X	X	X	X			
26 3365/SW210 W/2	X	X	X	X			
27 3365/SW211 W/1	X	X	X	X			
28 3365/SW211 W/2	X	X	X	X			
29 3365/SW212 W/1	X	X	X	X			
30 3365/SW212 W/2	X	X	X	X			
31 3365/SW213 W/1	X	X	X	X			
32 3365/SW213 W/2	X	X	X	X			
33 3365/SW214 W/1	X	X	X	X			
34 3365/SW214 W/2	X	X	X	X			
35 3365/SW215 W/1	X	X	X	X			
36 3365/SW215 W/2	X	X	X	X			
37 3365/SW216 W/1	X	X	X	X			
38 3365/SW216 W/2	X	X	X	X			

337868
15/11/23, 1410

SOIL ANALYSIS CHAIN OF CUSTODY

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Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
39 3365/SW217 W/1	X	X	X	X			
40 3365/SW217 W/2	X	X	X	X			
41 3365/SW302 W/1	X	X	X	X			
42 3365/SW302 W/2	X	X	X	X			
43 3365/SW303 W/1	X	X	X	X			
44 3365/SW303 W/2	X	X	X	X			
45 3365/SW304 W/1	X	X	X	X			
46 3365/SW304 W/2	X	X	X	X			
47 3365/SW305 W/1	X	X	X	X			
48 3365/SW305 W/2	X	X	X	X			
~~3365/SW306 W/2~~	X	X	X	X			
49 3365/SW306 W/1	X	X	X	X			
50 3365/SW306 W/2	X	X	X	X			
51 3365/SW307 W/1	X	X	X	X			
52 3365/SW307 W/2	X	X	X	X			
53 3365/DUP01	X						
54 3365/DUP02	X						
55 3365/DUP03	X						
60 NR 3365/DUP04	X						
56 3365/GW DUP01					X		

57 SW103 (extra sample) JN

58 SW204^{W1} (extra sample) JN

59 SW204 W2 (extra sample) JN

337868
15/11/23, 1410

CERTIFICATE OF ANALYSIS 337868

Client Details

Client	Martens & Associates Pty Ltd
Attention	Trystan Richards
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	60 Water
Date samples received	15/11/2023
Date completed instructions received	15/11/2023

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	22/11/2023
Date of Issue	22/11/2023
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Diego Bigolin, Inorganics Supervisor
 Dragana Tomas, Senior Chemist
 Loren Bardwell, Development Chemist
 Nick Sarlamis, Assistant Operation Manager

Authorised By

Nancy Zhang, Laboratory Manager

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

vTRH in Water (C6-C9) NEPM

Our Reference		337868-7	337868-8	337868-9	337868-10	337868-11
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	21/11/2023	21/11/2023	21/11/2023	21/11/2023	21/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	99	99	102	105	102
Surrogate Toluene-d8	%	98	97	98	98	98
Surrogate 4-Bromofluorobenzene	%	99	98	100	102	98

vTRH in Water (C6-C9) NEPM

Our Reference		337868-12	337868-13	337868-14	337868-15	337868-16
Your Reference	UNITS	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	21/11/2023	21/11/2023	21/11/2023	21/11/2023	21/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	101	102	101	102	102
Surrogate Toluene-d8	%	98	98	98	98	98
Surrogate 4-Bromofluorobenzene	%	99	100	99	101	101

vTRH in Water (C6-C9) NEPM

Our Reference		337868-17	337868-18	337868-19	337868-20	337868-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	21/11/2023	21/11/2023	21/11/2023	21/11/2023	21/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	101	102	101	102
Surrogate Toluene-d8	%	98	98	98	97	98
Surrogate 4-Bromofluorobenzene	%	99	99	99	100	99

vTRH in Water (C6-C9) NEPM

Our Reference		337868-22	337868-23	337868-24	337868-25	337868-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	21/11/2023	21/11/2023	21/11/2023	21/11/2023	21/11/2023
Date analysed	-	22/11/2023	22/11/2023	22/11/2023	22/11/2023	22/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	101	100	101	102
Surrogate Toluene-d8	%	98	97	97	98	97
Surrogate 4-Bromofluorobenzene	%	100	98	100	99	99

vTRH in Water (C6-C9) NEPM

Our Reference		337868-27	337868-28	337868-29	337868-30	337868-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	21/11/2023	21/11/2023	21/11/2023	21/11/2023	21/11/2023
Date analysed	-	22/11/2023	22/11/2023	22/11/2023	22/11/2023	22/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	101	101	102	101	101
Surrogate Toluene-d8	%	97	98	98	98	98
Surrogate 4-Bromofluorobenzene	%	99	99	98	99	98

vTRH in Water (C6-C9) NEPM

Our Reference		337868-32	337868-33	337868-34	337868-35	337868-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	21/11/2023	21/11/2023	21/11/2023	17/11/2023	17/11/2023
Date analysed	-	22/11/2023	22/11/2023	22/11/2023	20/11/2023	20/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	101	101	101	102	101
Surrogate Toluene-d8	%	97	98	97	98	98
Surrogate 4-Bromofluorobenzene	%	98	99	99	100	99

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

vTRH in Water (C6-C9) NEPM

Our Reference		337868-37	337868-38	337868-39	337868-40	337868-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	101	102	100	101	100
Surrogate Toluene-d8	%	98	98	98	98	98
Surrogate 4-Bromofluorobenzene	%	98	99	99	98	97

vTRH in Water (C6-C9) NEPM

Our Reference		337868-42	337868-43	337868-44	337868-45	337868-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	99	102	101	100	100
Surrogate Toluene-d8	%	97	98	98	98	98
Surrogate 4-Bromofluorobenzene	%	98	99	99	98	97

vTRH in Water (C6-C9) NEPM

Our Reference		337868-47	337868-48	337868-49	337868-50	337868-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	101	103	102	101	99
Surrogate Toluene-d8	%	98	98	98	98	97
Surrogate 4-Bromofluorobenzene	%	97	99	100	97	97

vTRH in Water (C6-C9) NEPM					
Our Reference		337868-52	337868-57	337868-58	337868-59
Your Reference	UNITS	3365/SW307 W/2	3365/SW103	3365/SW204 W/1	3365/SW204 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	99	98	101	102
Surrogate Toluene-d8	%	98	98	98	98
Surrogate 4-Bromofluorobenzene	%	98	97	98	99

svTRH (C10-C40) in Water						
Our Reference	UNITS	337868-7	337868-8	337868-9	337868-10	337868-11
Your Reference		3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	18/11/2023	18/11/2023	18/11/2023	18/11/2023	18/11/2023
TRH C ₁₀ - C ₁₄	µg/L	64	330	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	380	600	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	120	240	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	560	1,200	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	150	370	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	370	540	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	510	920	<50	<50	<50
Surrogate o-Terphenyl	%	85	133	75	78	100

svTRH (C10-C40) in Water						
Our Reference	UNITS	337868-12	337868-13	337868-14	337868-15	337868-16
Your Reference		3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	18/11/2023	18/11/2023	18/11/2023	18/11/2023	18/11/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	92	73	98	84	83

svTRH (C10-C40) in Water

Our Reference		337868-17	337868-18	337868-19	337868-20	337868-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	18/11/2023	18/11/2023	18/11/2023	18/11/2023	18/11/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	140	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	140	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	160	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	160	<50	<50
Surrogate o-Terphenyl	%	87	88	79	98	105

svTRH (C10-C40) in Water

Our Reference		337868-22	337868-23	337868-24	337868-25	337868-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	18/11/2023	18/11/2023	18/11/2023	18/11/2023	18/11/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	100	99	91	105

svTRH (C10-C40) in Water

Our Reference		337868-27	337868-28	337868-29	337868-30	337868-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	18/11/2023	18/11/2023	18/11/2023	18/11/2023	20/11/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	74	103	102	84	96

svTRH (C10-C40) in Water

Our Reference		337868-32	337868-33	337868-34	337868-35	337868-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	21/11/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	98	93	92	90	106

svTRH (C10-C40) in Water

Our Reference		337868-37	337868-38	337868-39	337868-40	337868-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	21/11/2023	21/11/2023	21/11/2023	21/11/2023	21/11/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	74
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	370
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	440
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	260
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	220
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	480
Surrogate o-Terphenyl	%	80	79	91	107	112

svTRH (C10-C40) in Water

Our Reference		337868-42	337868-43	337868-44	337868-45	337868-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	21/11/2023	21/11/2023	21/11/2023	21/11/2023	21/11/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	190	150	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	190	150	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	160	140	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	160	140	<50	<50	<50
Surrogate o-Terphenyl	%	76	84	99	70	67

svTRH (C10-C40) in Water

Our Reference		337868-47	337868-48	337868-49	337868-50	337868-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	21/11/2023	21/11/2023	21/11/2023	21/11/2023	21/11/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	120	<100	<100	<100	550
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	120	<50	<50	<50	550
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	420
TRH >C ₁₆ - C ₃₄	µg/L	110	<100	<100	<100	170
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	110	<50	<50	<50	590
Surrogate o-Terphenyl	%	105	93	89	72	111

svTRH (C10-C40) in Water

Our Reference		337868-52	337868-57	337868-58	337868-59
Your Reference	UNITS	3365/SW307 W/2	3365/SW103	3365/SW204 W/1	3365/SW204 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	21/11/2023	21/11/2023	21/11/2023	21/11/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	360	460	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	360	460	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	280	380	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	110	140	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	400	520	<50	<50
Surrogate o-Terphenyl	%	87	94	94	97

PAHs in Water						
Our Reference	UNITS	337868-7	337868-8	337868-9	337868-10	337868-11
Your Reference		3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	64	105	109	103	111

PAHs in Water						
Our Reference		337868-12	337868-13	337868-14	337868-15	337868-16
Your Reference	UNITS	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	116	97	108	111	99

PAHs in Water						
Our Reference		337868-17	337868-18	337868-19	337868-20	337868-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	100	106	115	109	110

PAHs in Water						
Our Reference		337868-22	337868-23	337868-24	337868-25	337868-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	99	102	103	107	111

PAHs in Water						
Our Reference		337868-27	337868-28	337868-29	337868-30	337868-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	20/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	20/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	93	103	103	97	118

PAHs in Water						
Our Reference		337868-32	337868-33	337868-34	337868-35	337868-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	115	106	106	92	106

PAHs in Water						
Our Reference		337868-37	337868-38	337868-39	337868-40	337868-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	91	82	90	102	90

PAHs in Water						
Our Reference		337868-42	337868-43	337868-44	337868-45	337868-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	78	91	94	93	87

PAHs in Water						
Our Reference		337868-47	337868-48	337868-49	337868-50	337868-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	95	106	115	98	80

PAHs in Water					
Our Reference		337868-52	337868-57	337868-58	337868-59
Your Reference	UNITS	3365/SW307 W/2	3365/SW103	3365/SW204 W/1	3365/SW204 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	74	112	110	114

Organochlorine Pesticides in Water						
Our Reference	UNITS	337868-7	337868-8	337868-9	337868-10	337868-11
Your Reference		3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	93	97	97	83	99

Organochlorine Pesticides in Water						
Our Reference		337868-12	337868-13	337868-14	337868-15	337868-16
Your Reference	UNITS	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	105	85	97	103	90

Organochlorine Pesticides in Water						
Our Reference		337868-17	337868-18	337868-19	337868-20	337868-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	89	97	105	98	101

Organochlorine Pesticides in Water						
Our Reference		337868-22	337868-23	337868-24	337868-25	337868-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	91	94	86	96	101

Organochlorine Pesticides in Water						
Our Reference		337868-27	337868-28	337868-29	337868-30	337868-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	20/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	20/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	82	95	94	87	119

Organochlorine Pesticides in Water						
Our Reference		337868-32	337868-33	337868-34	337868-35	337868-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	119	111	111	94	109

Organochlorine Pesticides in Water						
Our Reference		337868-37	337868-38	337868-39	337868-40	337868-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	93	82	91	102	92

Organochlorine Pesticides in Water						
Our Reference		337868-42	337868-43	337868-44	337868-45	337868-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	79	93	96	77	81

Organochlorine Pesticides in Water						
Our Reference		337868-47	337868-48	337868-49	337868-50	337868-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	93	99	109	91	78

Organochlorine Pesticides in Water					
Our Reference		337868-52	337868-57	337868-58	337868-59
Your Reference	UNITS	3365/SW307 W/2	3365/SW103	3365/SW204 W/1	3365/SW204 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	71	106	102	104

PCBs in Water						
Our Reference	UNITS	337868-7	337868-8	337868-9	337868-10	337868-11
Your Reference		3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	93	97	97	83	99

PCBs in Water						
Our Reference	UNITS	337868-12	337868-13	337868-14	337868-15	337868-16
Your Reference		3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	105	85	97	103	90

PCBs in Water						
Our Reference		337868-17	337868-18	337868-19	337868-20	337868-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	89	97	105	98	101

PCBs in Water						
Our Reference		337868-22	337868-23	337868-24	337868-25	337868-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	91	94	86	96	101

PCBs in Water						
Our Reference		337868-27	337868-28	337868-29	337868-30	337868-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	20/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	20/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	82	95	94	87	119

PCBs in Water						
Our Reference		337868-32	337868-33	337868-34	337868-35	337868-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	119	111	111	94	109

PCBs in Water						
Our Reference		337868-37	337868-38	337868-39	337868-40	337868-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	93	82	91	102	92

PCBs in Water						
Our Reference		337868-42	337868-43	337868-44	337868-45	337868-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	79	93	96	77	81

PCBs in Water						
Our Reference		337868-47	337868-48	337868-49	337868-50	337868-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate TCMX	%	93	99	109	91	78

PCBs in Water					
Our Reference		337868-52	337868-57	337868-58	337868-59
Your Reference	UNITS	3365/SW307 W/2	3365/SW103	3365/SW204 W/1	3365/SW204 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Date analysed	-	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Aroclor 1016	µg/L	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2
Surrogate TCMX	%	71	106	102	104

All metals in water - total						
Our Reference	UNITS	337868-7	337868-8	337868-9	337868-10	337868-11
Your Reference		3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	160	620	120	100	90
Arsenic-Total	µg/L	2	<1	1	1	1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	5	2	<1	<1	<1
Iron-Total	µg/L	1,600	260	250	220	210
Mercury-Total	µg/L	<0.05	0.2	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	13	12	3	2	<1

All metals in water - total						
Our Reference	UNITS	337868-12	337868-13	337868-14	337868-15	337868-16
Your Reference		3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1	3365/SW205 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	40	30	70	80	80
Arsenic-Total	µg/L	1	1	1	1	1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	250	60	160	150	150
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	6	3	2	<1	<1

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

All metals in water - total						
Our Reference		337868-17	337868-18	337868-19	337868-20	337868-21
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	40	30	40	40	40
Arsenic-Total	µg/L	1	1	1	1	1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	70	60	80	90	60
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	1	<1	1	<1	<1

All metals in water - total						
Our Reference		337868-22	337868-23	337868-24	337868-25	337868-26
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	30	50	40	110	30
Arsenic-Total	µg/L	1	1	<1	1	1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	70	80	70	200	80
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	<1	1	<1	1	<1

All metals in water - total

Our Reference		337868-27	337868-28	337868-29	337868-30	337868-31
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	70	40	40	50	50
Arsenic-Total	µg/L	1	1	1	1	1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	150	60	80	120	80
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	1	<1	<1	<1	2

All metals in water - total

Our Reference		337868-32	337868-33	337868-34	337868-35	337868-36
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	50	60	70	20	20
Arsenic-Total	µg/L	1	1	1	1	1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	80	100	110	40	50
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	<1	<1	2	<1	<1

All metals in water - total

Our Reference		337868-37	337868-38	337868-39	337868-40	337868-41
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW302 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	20	20	10	10	3,500
Arsenic-Total	µg/L	1	1	1	1	<1
Chromium-Total	µg/L	<1	<1	<1	<1	3
Copper-Total	µg/L	<1	<1	<1	<1	3
Iron-Total	µg/L	50	40	30	20	5,300
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	0.2
Lead-Total	µg/L	<1	<1	<1	<1	5
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	<1	2	<1	2	11

All metals in water - total

Our Reference		337868-42	337868-43	337868-44	337868-45	337868-46
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	3,100	40	460	360	480
Arsenic-Total	µg/L	<1	2	3	<1	<1
Chromium-Total	µg/L	3	<1	1	<1	1
Copper-Total	µg/L	3	<1	<1	2	1
Iron-Total	µg/L	5,000	470	1,600	3,100	5,600
Mercury-Total	µg/L	0.2	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	5	<1	1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	9	4	10	30	28

All metals in water - total

Our Reference		337868-47	337868-48	337868-49	337868-50	337868-51
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	90	100	300	290	510
Arsenic-Total	µg/L	<1	<1	2	2	<1
Chromium-Total	µg/L	<1	<1	<1	<1	2
Copper-Total	µg/L	<1	<1	<1	<1	2
Iron-Total	µg/L	330	330	480	520	730
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	0.06
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	3	1	4	3	18

All metals in water - total

Our Reference		337868-52	337868-53	337868-54	337868-55	337868-57
Your Reference	UNITS	3365/SW307 W/2	3365/DUP01	3365/DUP02	3365/DUP03	3365/SW103
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	450	40	60	440	210
Arsenic-Total	µg/L	<1	1	1	<1	<1
Chromium-Total	µg/L	2	<1	<1	2	1
Copper-Total	µg/L	1	<1	<1	2	6
Iron-Total	µg/L	720	90	100	700	120
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	3
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	15	1	2	18	27

All metals in water - total				
Our Reference		337868-58	337868-59	337868-60
Your Reference	UNITS	3365/SW204 W/1	3365/SW204 W/2	3365/DUP04
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023
Aluminium-Total	µg/L	160	390	90
Arsenic-Total	µg/L	1	4	<1
Chromium-Total	µg/L	<1	<1	<1
Copper-Total	µg/L	<1	3	3
Iron-Total	µg/L	340	3,500	80
Mercury-Total	µg/L	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1
Zinc-Total	µg/L	2	5	15

Metals in Waters - Acid extractable

Our Reference		337868-1	337868-2	337868-3	337868-4	337868-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW206
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	0.1	0.3	<0.05	0.2	0.2

Metals in Waters - Acid extractable

Our Reference		337868-6	337868-7	337868-8	337868-9	337868-10
Your Reference	UNITS	3365/GW207	3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	0.06	2.4	0.2	0.06	0.05

Metals in Waters - Acid extractable

Our Reference		337868-11	337868-12	337868-13	337868-14	337868-15
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		337868-16	337868-17	337868-18	337868-19	337868-20
Your Reference	UNITS	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.1	<0.1

Metals in Waters - Acid extractable

Our Reference		337868-21	337868-22	337868-23	337868-24	337868-25
Your Reference	UNITS	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		337868-26	337868-27	337868-28	337868-29	337868-30
Your Reference	UNITS	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		337868-31	337868-32	337868-33	337868-34	337868-35
Your Reference	UNITS	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		337868-36	337868-37	337868-38	337868-39	337868-40
Your Reference	UNITS	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		337868-41	337868-42	337868-43	337868-44	337868-45
Your Reference	UNITS	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	0.1	0.1	0.06	0.09	<0.05

Metals in Waters - Acid extractable

Our Reference		337868-46	337868-47	337868-48	337868-49	337868-50
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	<0.05	0.06	0.07	0.07	0.08

Metals in Waters - Acid extractable

Our Reference		337868-51	337868-52	337868-57	337868-58	337868-59
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/SW103	3365/SW204 W/1	3365/SW204 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phosphorus - Total	mg/L	<0.05	<0.05	0.08	0.08	0.3

Miscellaneous Inorganics

Our Reference		337868-1	337868-2	337868-3	337868-4	337868-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW206
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Nitrogen in water	mg/L	0.1	0.1	<0.1	<0.1	0.3
Phosphate as P in water	mg/L	<0.005	0.15	0.02	0.34	0.04

Miscellaneous Inorganics

Our Reference		337868-6	337868-7	337868-8	337868-9	337868-10
Your Reference	UNITS	3365/GW207	3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	[NA]	22	84	28	22
Total Nitrogen in water	mg/L	0.2	35	3.1	0.1	0.1
Phosphate as P in water	mg/L	<0.005	1.7	0.078	0.01	0.01
Chlorophyll a	mg/m ³	[NA]	61	8	<1	<1

Miscellaneous Inorganics

Our Reference		337868-11	337868-12	337868-13	337868-14	337868-15
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	18	19	20	18	23
Total Nitrogen in water	mg/L	0.1	<0.1	0.1	0.1	0.1
Phosphate as P in water	mg/L	0.008	0.008	0.007	0.008	0.007
Chlorophyll a	mg/m ³	1	<1	<1	<1	2

Miscellaneous Inorganics

Our Reference		337868-16	337868-17	337868-18	337868-19	337868-20
Your Reference	UNITS	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	18	8	18	21	22
Total Nitrogen in water	mg/L	0.1	<0.1	0.1	<0.1	<0.1
Phosphate as P in water	mg/L	0.007	0.009	0.007	0.007	0.006
Chlorophyll a	mg/m ³	2	<1	2	<1	2

Miscellaneous Inorganics

Our Reference		337868-21	337868-22	337868-23	337868-24	337868-25
Your Reference	UNITS	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	25	23	24	21	23
Total Nitrogen in water	mg/L	<0.1	<0.1	0.1	0.1	<0.1
Phosphate as P in water	mg/L	0.006	0.006	0.007	0.007	0.006
Chlorophyll a	mg/m ³	2	3	3	<1	1

Miscellaneous Inorganics

Our Reference		337868-26	337868-27	337868-28	337868-29	337868-30
Your Reference	UNITS	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	16	14	22	27	18
Total Nitrogen in water	mg/L	0.1	0.1	0.1	0.1	0.1
Phosphate as P in water	mg/L	0.006	0.007	0.007	0.007	0.006
Chlorophyll a	mg/m ³	2	<1	<1	<1	<1

Miscellaneous Inorganics

Our Reference		337868-31	337868-32	337868-33	337868-34	337868-35
Your Reference	UNITS	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	22	22	26	18	20
Total Nitrogen in water	mg/L	0.1	0.1	0.1	0.1	0.1
Phosphate as P in water	mg/L	0.007	0.006	0.007	0.007	0.008
Chlorophyll a	mg/m ³	<1	<1	1	<1	1

Miscellaneous Inorganics

Our Reference		337868-36	337868-37	337868-38	337868-39	337868-40
Your Reference	UNITS	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	26	28	24	24	18
Total Nitrogen in water	mg/L	0.1	0.1	0.1	0.1	<0.1
Phosphate as P in water	mg/L	0.007	<0.005	<0.005	<0.005	0.007
Chlorophyll a	mg/m ³	<1	2	2	<1	2

Miscellaneous Inorganics

Our Reference		337868-41	337868-42	337868-43	337868-44	337868-45
Your Reference	UNITS	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	81	35	78	70	26
Total Nitrogen in water	mg/L	1.6	1.5	1.5	1.4	0.7
Phosphate as P in water	mg/L	0.02	0.02	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	3	<1	20	10	4

Miscellaneous Inorganics

Our Reference		337868-46	337868-47	337868-48	337868-49	337868-50
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	27	22	28	80	58
Total Nitrogen in water	mg/L	0.7	1.1	0.9	1.5	1.4
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	<1	3	2	2	<1

Miscellaneous Inorganics

Our Reference		337868-51	337868-52	337868-56	337868-57	337868-58
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/GW DUP01	3365/SW103	3365/SW204 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Total Suspended Solids	mg/L	6	6	[NA]	14	98
Total Nitrogen in water	mg/L	1.6	1.1	[NA]	2.2	0.3
Phosphate as P in water	mg/L	<0.005	<0.005	[NA]	<0.005	0.02
Chlorophyll a	mg/m ³	<1	<1	[NA]	6	3
pH	pH Units	[NA]	[NA]	6.2	[NA]	[NA]
Electrical Conductivity	µS/cm	[NA]	[NA]	3,400	[NA]	[NA]

Miscellaneous Inorganics

Our Reference		337868-59
Your Reference	UNITS	3365/SW204 W/2
Date Sampled		13/11/2023-15/11/2023
Type of sample		Water
Date prepared	-	15/11/2023
Date analysed	-	15/11/2023
Total Suspended Solids	mg/L	39
Total Nitrogen in water	mg/L	0.2
Phosphate as P in water	mg/L	0.02
Chlorophyll a	mg/m ³	9

Microbiological Testing

Our Reference		337868-1	337868-2	337868-3	337868-4	337868-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW206
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Faecal Coliforms	cfu/100mL	<100	<100	<10	<100	<100

Microbiological Testing

Our Reference		337868-6	337868-7	337868-8	337868-9	337868-10
Your Reference	UNITS	3365/GW207	3365/SW101	3365/SW102	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	[NA]	<18	>16000	<1	<10
Faecal Coliforms	cfu/100mL	<18	<18	>16000	<1	<10

Microbiological Testing

Our Reference		337868-11	337868-12	337868-13	337868-14	337868-15
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW205 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	<10	<10	>1&<10	>1&<10	10
Faecal Coliforms	cfu/100mL	<10	<10	>1&<10	>1&<10	10

Microbiological Testing

Our Reference		337868-16	337868-17	337868-18	337868-19	337868-20
Your Reference	UNITS	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	10	>1&<10	>1&<10	<10	1^A
Faecal Coliforms	cfu/100mL	10	>1&<10	>1&<10	<10	1^A

Microbiological Testing

Our Reference		337868-21	337868-22	337868-23	337868-24	337868-25
Your Reference	UNITS	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	<1	<10	>1&<10	<1	<1
Faecal Coliforms	cfu/100mL	<1	<10	>1&<10	<1	<1

Microbiological Testing

Our Reference		337868-26	337868-27	337868-28	337868-29	337868-30
Your Reference	UNITS	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	<1	<10	<1	<100	<10
Faecal Coliforms	cfu/100mL	<1	<10	<1	<100	<10

Microbiological Testing

Our Reference		337868-31	337868-32	337868-33	337868-34	337868-35
Your Reference	UNITS	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	<10	<10	6A	2^A	>1&<10
Faecal Coliforms	cfu/100mL	<10	<10	6A	2^A	>1&<10

Microbiological Testing

Our Reference		337868-36	337868-37	337868-38	337868-39	337868-40
Your Reference	UNITS	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	<100	<1	>1&<10	<10	>1&<10
Faecal Coliforms	cfu/100mL	<100	<1	>1&<10	<10	>1&<10

Microbiological Testing

Our Reference		337868-41	337868-42	337868-43	337868-44	337868-45
Your Reference	UNITS	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	<18	<18	<18	<18	20
Faecal Coliforms	cfu/100mL	<18	<18	<18	<18	20

Microbiological Testing

Our Reference		337868-46	337868-47	337868-48	337868-49	337868-50
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	<18	<18	<18	<18	<18
Faecal Coliforms	cfu/100mL	<18	<18	<18	<18	<18

Microbiological Testing

Our Reference		337868-51	337868-52	337868-57	337868-58	337868-59
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/SW103	3365/SW204 W/1	3365/SW204 W/2
Date Sampled		13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023	13/11/2023-15/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
E. coli	cfu/100mL	<18	<18	100	>1&<10	100
Faecal Coliforms	cfu/100mL	<18	<18	100	>1&<10	100

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determined stoichiometrically from the base metal concentration.
Org-020	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-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS.
Org-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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.

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			17/11/2023	35	17/11/2023	21/11/2023		20/11/2023	[NT]
Date analysed	-			20/11/2023	35	20/11/2023	22/11/2023		21/11/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	35	<10	<10	0	103	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	35	<10	<10	0	103	[NT]
Surrogate Dibromofluoromethane	%		Org-023	99	35	102	102	0	96	[NT]
Surrogate Toluene-d8	%		Org-023	99	35	98	98	0	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	97	35	100	101	1	95	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date extracted	-			[NT]	36	17/11/2023	21/11/2023		17/11/2023	[NT]
Date analysed	-			[NT]	36	20/11/2023	22/11/2023		20/11/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	36	<10	<10	0	109	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	36	<10	<10	0	109	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	36	101	101	0	98	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	36	98	98	0	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	36	99	98	1	94	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W6	[NT]
Date extracted	-			[NT]	37	17/11/2023	21/11/2023		17/11/2023	[NT]
Date analysed	-			[NT]	37	20/11/2023	22/11/2023		20/11/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	37	<10	<10	0	112	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	37	<10	<10	0	112	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	37	101	101	0	96	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	37	98	97	1	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	37	98	97	1	92	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	41	17/11/2023	21/11/2023		[NT]	[NT]
Date analysed	-			[NT]	41	20/11/2023	22/11/2023		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	41	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	41	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	41	100	100	0	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	41	98	97	1	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	41	97	101	4	[NT]	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	49	17/11/2023	21/11/2023		[NT]	[NT]
Date analysed	-			[NT]	49	20/11/2023	22/11/2023		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	49	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	49	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	49	102	102	0	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	49	98	97	1	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	49	100	97	3	[NT]	[NT]

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QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337868-8
Date extracted	-			17/11/2023	7	17/11/2023	17/11/2023		20/11/2023	17/11/2023
Date analysed	-			18/11/2023	7	18/11/2023	18/11/2023		20/11/2023	18/11/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	7	64	<50	25	76	92
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	7	380	410	8	82	101
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	7	120	180	40	85	102
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	7	150	160	6	76	92
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	7	370	340	8	82	101
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	7	<100	<100	0	85	102
Surrogate o-Terphenyl	%		Org-020	92	7	85	99	15	105	102

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	337868-26
Date extracted	-			[NT]	14	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			[NT]	14	18/11/2023	18/11/2023		18/11/2023	18/11/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	14	<50	<50	0	107	107
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	14	<100	<100	0	116	108
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	14	<100	<100	0	114	112
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	14	<50	<50	0	107	107
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	14	<100	<100	0	116	108
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	14	<100	<100	0	114	112
Surrogate o-Terphenyl	%		Org-020	[NT]	14	98	99	1	89	108

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	337868-32
Date extracted	-			[NT]	25	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			[NT]	25	18/11/2023	18/11/2023		18/11/2023	20/11/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	25	<50	<50	0	94	75
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	25	<100	<100	0	105	75
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	25	<100	<100	0	86	95
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	25	<50	<50	0	94	75
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	25	<100	<100	0	105	75
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	25	<100	<100	0	86	95
Surrogate o-Terphenyl	%		Org-020	[NT]	25	91	93	2	82	105

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QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	337868-52
Date extracted	-			[NT]	31	17/11/2023	17/11/2023		[NT]	17/11/2023
Date analysed	-			[NT]	31	20/11/2023	20/11/2023		[NT]	21/11/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	31	<50	<50	0	[NT]	91
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	31	<100	<100	0	[NT]	84
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	31	<100	<100	0	[NT]	90
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	31	<50	<50	0	[NT]	91
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	31	<100	<100	0	[NT]	84
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	31	<100	<100	0	[NT]	90
Surrogate o-Terphenyl	%		Org-020	[NT]	31	96	100	4	[NT]	87

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	42	17/11/2023	17/11/2023		[NT]	[NT]
Date analysed	-			[NT]	42	21/11/2023	21/11/2023		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	42	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	42	190	220	15	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	42	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	42	160	180	12	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	42	<100	110	10	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	42	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	42	76	83	9	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	17/11/2023	17/11/2023		[NT]	[NT]
Date analysed	-			[NT]	51	21/11/2023	21/11/2023		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	51	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	51	550	800	37	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	51	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	51	420	580	32	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	51	170	250	38	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	51	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	51	111	135	20	[NT]	[NT]

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QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337868-8
Date extracted	-			17/11/2023	7	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			17/11/2023	7	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Naphthalene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	92	95
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	99	95
Fluorene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	98	103
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	100	90
Anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	108	95
Pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	114	104
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	84	74
Benzo(b,j,k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	96	78
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	7	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	102	7	64	83	26	108	96

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	337868-26
Date extracted	-			[NT]	14	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			[NT]	14	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Naphthalene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	115	101
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	91	101
Fluorene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	102	106
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	101	98
Anthracene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	101	101
Pyrene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	100	110
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	97	83
Benzo(b,j,k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	119	94
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	14	108	110	2	109	110

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QUALITY CONTROL: PAHs in Water					Duplicate		Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	337868-32
Date extracted	-			[NT]	25	17/11/2023	17/11/2023		20/11/2023	20/11/2023
Date analysed	-			[NT]	25	17/11/2023	17/11/2023		20/11/2023	20/11/2023
Naphthalene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	87	100
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	99	106
Fluorene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	98	106
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	96	103
Anthracene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	102	102
Pyrene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	101	102
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	82	85
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	94	93
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	25	107	109	2	106	102

QUALITY CONTROL: PAHs in Water					Duplicate		Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	337868-52
Date extracted	-			[NT]	31	20/11/2023	20/11/2023		20/11/2023	20/11/2023
Date analysed	-			[NT]	31	20/11/2023	20/11/2023		20/11/2023	20/11/2023
Naphthalene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	102	65
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	106	70
Fluorene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	108	73
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	105	72
Anthracene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	106	74
Pyrene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	120	84
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	90	62
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	93	63
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	31	118	116	2	123	75

QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	42	20/11/2023	20/11/2023		[NT]	[NT]
Date analysed	-			[NT]	42	20/11/2023	20/11/2023		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	42	78	80	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	20/11/2023	20/11/2023		[NT]	[NT]
Date analysed	-			[NT]	51	20/11/2023	20/11/2023		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	51	80	83	4	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337868-8
Date extracted	-			17/11/2023	7	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			17/11/2023	7	17/11/2023	17/11/2023		17/11/2023	17/11/2023
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	100	88
HCB	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	100	85
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	99	98
delta-BHC	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	104	94
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	94	90
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	103	90
Dieldrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	106	102
Endrin	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	92	92
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	100	91
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	129	131
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	7	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	93	7	93	78	18	113	100

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	337868-26
Date extracted	-			[NT]	14	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			[NT]	14	17/11/2023	17/11/2023		17/11/2023	17/11/2023
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	94	90
HCB	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	93	85
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	99	110
delta-BHC	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	85	101
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	94	94
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	110	96
Dieldrin	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	126	101
Endrin	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	94	86
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	85	94
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	120	127
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	14	97	100	3	120	102

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	337868-32
Date extracted	-			[NT]	25	17/11/2023	17/11/2023		20/11/2023	20/11/2023
Date analysed	-			[NT]	25	17/11/2023	17/11/2023		20/11/2023	20/11/2023
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	109	99
HCB	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	100	96
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	93	95
delta-BHC	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	101	90
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	97	100
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	87	88
Dieldrin	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	104	107
Endrin	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	94	92
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	89	83
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	105	131
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	25	96	100	4	126	135

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	337868-52
Date extracted	-			[NT]	31	20/11/2023	20/11/2023		20/11/2023	20/11/2023
Date analysed	-			[NT]	31	20/11/2023	20/11/2023		20/11/2023	20/11/2023
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	98	68
HCB	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	101	69
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	102	70
delta-BHC	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	109	62
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	106	74
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	116	79
Dieldrin	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	132	92
Endrin	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	101	72
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	88	61
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	131	113
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	31	119	121	2	129	82

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	42	20/11/2023	20/11/2023		[NT]	[NT]
Date analysed	-			[NT]	42	20/11/2023	20/11/2023		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	42	79	82	4	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	20/11/2023	20/11/2023		[NT]	[NT]
Date analysed	-			[NT]	51	20/11/2023	20/11/2023		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	51	78	81	4	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337868-8
Date extracted	-			17/11/2023	7	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			17/11/2023	7	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Aroclor 1016	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	94	90
Aroclor 1260	µg/L	2	Org-021/022/025	<2	7	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021/022/025	93	7	93	78	18	113	100

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	337868-26
Date extracted	-			[NT]	14	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			[NT]	14	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	102	94
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021/022/025	[NT]	14	97	100	3	120	102

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	337868-32
Date extracted	-			[NT]	25	17/11/2023	17/11/2023		20/11/2023	20/11/2023
Date analysed	-			[NT]	25	17/11/2023	17/11/2023		20/11/2023	20/11/2023
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	25	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	25	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	25	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	25	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	25	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	25	<2	<2	0	89	91
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	25	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021/022/025	[NT]	25	96	100	4	126	135

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	337868-52
Date extracted	-			[NT]	31	20/11/2023	20/11/2023		20/11/2023	20/11/2023
Date analysed	-			[NT]	31	20/11/2023	20/11/2023		20/11/2023	20/11/2023
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	31	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	31	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	31	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	31	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	31	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	31	<2	<2	0	120	79
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	31	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021/022/025	[NT]	31	119	121	2	129	82

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	42	20/11/2023	20/11/2023		[NT]	[NT]
Date analysed	-			[NT]	42	20/11/2023	20/11/2023		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	42	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	42	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	42	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	42	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	42	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	42	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	42	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021/022/025	[NT]	42	79	82	4	[NT]	[NT]

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	20/11/2023	20/11/2023		[NT]	[NT]
Date analysed	-			[NT]	51	20/11/2023	20/11/2023		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	51	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	51	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	51	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	51	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	51	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	51	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	51	<2	<2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021/022/025	[NT]	51	78	81	4	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	337868-12
Date prepared	-			17/11/2023	11	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			17/11/2023	11	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Aluminium-Total	µg/L	10	Metals-022	<10	11	90	90	0	109	88
Arsenic-Total	µg/L	1	Metals-022	<1	11	1	1	0	94	93
Chromium-Total	µg/L	1	Metals-022	<1	11	<1	<1	0	92	117
Copper-Total	µg/L	1	Metals-022	<1	11	<1	<1	0	88	92
Iron-Total	µg/L	10	Metals-022	<10	11	210	210	0	90	#
Mercury-Total	µg/L	0.05	Metals-021	<0.05	11	<0.05	<0.05	0	107	83
Lead-Total	µg/L	1	Metals-022	<1	11	<1	<1	0	95	74
Selenium-Total	µg/L	1	Metals-022	<1	11	<1	<1	0	95	83
Zinc-Total	µg/L	1	Metals-022	<1	11	<1	2	67	93	81

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	337868-32
Date prepared	-			[NT]	21	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			[NT]	21	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Aluminium-Total	µg/L	10	Metals-022	[NT]	21	40	30	29	89	83
Arsenic-Total	µg/L	1	Metals-022	[NT]	21	1	1	0	91	85
Chromium-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	97	98
Copper-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	89	80
Iron-Total	µg/L	10	Metals-022	[NT]	21	60	60	0	94	92
Mercury-Total	µg/L	0.05	Metals-021	[NT]	21	<0.05	<0.05	0	104	128
Lead-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	92	80
Selenium-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	89	71
Zinc-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	97	85

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	337868-52
Date prepared	-			[NT]	31	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			[NT]	31	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Aluminium-Total	µg/L	10	Metals-022	[NT]	31	50	40	22	86	#
Arsenic-Total	µg/L	1	Metals-022	[NT]	31	1	1	0	86	83
Chromium-Total	µg/L	1	Metals-022	[NT]	31	<1	<1	0	91	90
Copper-Total	µg/L	1	Metals-022	[NT]	31	<1	<1	0	86	82
Iron-Total	µg/L	10	Metals-022	[NT]	31	80	70	13	90	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	31	<0.05	<0.05	0	98	102
Lead-Total	µg/L	1	Metals-022	[NT]	31	<1	<1	0	88	80
Selenium-Total	µg/L	1	Metals-022	[NT]	31	<1	<1	0	86	82
Zinc-Total	µg/L	1	Metals-022	[NT]	31	2	<1	67	92	90

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	17/11/2023	17/11/2023		[NT]	[NT]
Date analysed	-			[NT]	41	17/11/2023	17/11/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	41	3500	3200	9	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	41	<1	<1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	41	3	3	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	41	3	2	40	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	41	5300	4800	10	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	41	0.2	0.2	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	41	5	5	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	41	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	41	11	10	10	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	17/11/2023	17/11/2023		[NT]	[NT]
Date analysed	-			[NT]	51	17/11/2023	17/11/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	51	510	540	6	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	51	<1	<1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	51	2	2	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	51	2	2	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	51	730	780	7	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	51	0.06	0.06	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	51	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	51	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	51	18	18	0	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	60	17/11/2023	17/11/2023		[NT]	[NT]
Date analysed	-			[NT]	60	17/11/2023	17/11/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	60	90	100	11	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	60	<1	<1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	60	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	60	3	3	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	60	80	80	0	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	60	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	60	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	60	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	60	15	14	7	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337868-3
Date prepared	-			17/11/2023	1	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			17/11/2023	1	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.1	0.1	0	108	106

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	337868-23
Date prepared	-			[NT]	11	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			[NT]	11	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	11	<0.05	<0.05	0	115	118

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	337868-43
Date prepared	-			[NT]	21	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Date analysed	-			[NT]	21	17/11/2023	17/11/2023		17/11/2023	17/11/2023
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	21	<0.05	<0.05	0	115	120

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	31	17/11/2023	17/11/2023		[NT]	[NT]
Date analysed	-			[NT]	31	17/11/2023	17/11/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	31	<0.05	<0.05	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	17/11/2023	17/11/2023		[NT]	[NT]
Date analysed	-			[NT]	41	17/11/2023	17/11/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	41	0.1	0.09	11	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	17/11/2023	17/11/2023		[NT]	[NT]
Date analysed	-			[NT]	51	17/11/2023	17/11/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	51	<0.05	<0.05	0	[NT]	[NT]

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QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337868-2
Date prepared	-			15/11/2023	1	15/11/2023	15/11/2023		15/11/2023	15/11/2023
Date analysed	-			15/11/2023	1	15/11/2023	15/11/2023		15/11/2023	15/11/2023
Total Suspended Solids	mg/L	5	Inorg-019	<5	7	22	26	17	96	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	1	0.1	0.1	0	97	81
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	1	<0.005	<0.005	0	96	103
Chlorophyll a	mg/m ³	1	INORG-119	<1	7	61	[NT]		114	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	337868-22
Date prepared	-			[NT]	7	15/11/2023	15/11/2023		15/11/2023	15/11/2023
Date analysed	-			[NT]	7	15/11/2023	15/11/2023		15/11/2023	15/11/2023
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	11	18	[NT]		100	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	7	35	[NT]		96	73
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	7	1.7	[NT]		96	101
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	11	1	[NT]		115	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	337868-42
Date prepared	-			[NT]	11	15/11/2023	15/11/2023		15/11/2023	15/11/2023
Date analysed	-			[NT]	11	15/11/2023	15/11/2023		15/11/2023	15/11/2023
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	17	8	13	48	102	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.1	<0.1	0	106	89
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	0.008	0.008	0	93	88
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	17	<1	[NT]		106	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	17	15/11/2023	15/11/2023		[NT]	[NT]
Date analysed	-			[NT]	17	15/11/2023	15/11/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	17	<0.1	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	17	0.009	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	21	25	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	21	2	[NT]		[NT]	[NT]

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QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	21	15/11/2023	15/11/2023		[NT]	[NT]
Date analysed	-			[NT]	21	15/11/2023	15/11/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	21	0.006	0.006	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	27	14	24	53	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	27	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	27	15/11/2023	15/11/2023		[NT]	[NT]
Date analysed	-			[NT]	27	15/11/2023	15/11/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	27	0.1	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	27	0.007	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	31	22	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	31	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	31	15/11/2023	15/11/2023		[NT]	[NT]
Date analysed	-			[NT]	31	15/11/2023	15/11/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	31	0.1	0.1	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	31	0.007	0.006	15	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	41	81	75	8	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	41	3	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	15/11/2023	15/11/2023		[NT]	[NT]
Date analysed	-			[NT]	41	15/11/2023	15/11/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	41	1.6	1.6	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	41	0.02	0.02	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	47	22	13	51	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	47	3	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	47	15/11/2023	15/11/2023		[NT]	[NT]
Date analysed	-			[NT]	47	15/11/2023	15/11/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	47	1.1	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	47	<0.005	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	51	6	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	51	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	15/11/2023	15/11/2023		[NT]	[NT]
Date analysed	-			[NT]	51	15/11/2023	15/11/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	51	1.6	1.6	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	59	39	40	3	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	59	9	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	59	15/11/2023	15/11/2023		[NT]	[NT]
Date analysed	-			[NT]	59	15/11/2023	15/11/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	59	0.2	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	59	0.02	[NT]		[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

8 Metals in Waters - total - The PQL for #19,20 has been raised 2 times due to suppression of the internal standard, which required the samples to be diluted.

This is likely due to the high level of salts in the sample

Total metals: no unfiltered, preserved sample was received for #12, 32 therefore analysis was conducted from the unpreserved sample bottle.

Note: there is a possibility some elements may be underestimated.

Micro was analysed by Sonic report

#W2326857,2326865,2326864,2326856,2326855,2326854,2326862,2326863,2326861,2326860,2326859.

< = less than or no growth detected of the target bacteria. > = Greater than.

A= Approximate.

All metals in water - total - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Appendix AA – Event 13 Data

Table 108: In situ water quality data and statistical summary for Crookhaven surface waters during Event 13.

PROJECT INFORMATION												
PROJECT NUMBER:		P1203365		DATE:		29/11/2023 1/12/2023						
CLIENT:		Sealark Pty Ltd		SAMPLED BY:		BTM & TR						
SITE LOCATION:		West Culburra										
IN SITU WATER QUALITY PARAMETERS												
Date	Bore / Location ID	Sample Type (S, D or T)	Time	Depth to Water (TOC)	Temp (°C)	pH	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% Sat)	EC µS/cm	Salinity (ppt)	Turbidity (ntu)
1/12/2023	SW201	S (WWE)	10:16:00		21.50	7.07	65.90		37.20	12600.00	7.24	21.20
1/12/2023	SW201	D (WWE)	10:16:00		21.30	6.80	61.40		25.20	14914.00	8.64	24.70
1/12/2023	SW202	S (WWE)	10:12:00		21.60	7.15	75.80		49.10	13870.00	8.06	18.80
1/12/2023	SW202	D (WWE)	10:12:00		21.50	6.91	73.70		43.20	16027.00	9.44	18.60
1/12/2023	SW203	S (WWE)	10:05:00		21.60	7.18	94.10		60.60	18288.00	10.84	15.30
1/12/2023	SW203	D (WWE)	10:05:00		21.50	7.11	89.60		53.30	18999.00	11.30	22.60
1/12/2023	SW204	S (WWE)	12:58:00		20.10	6.75	116.60		70.40	24368.00	14.84	23.40
1/12/2023	SW204	D (WWE)										
1/12/2023	SW205	S (WWE)	9:47:00		21.10	7.38	79.30		73.60	17280.00	10.21	60.10
1/12/2023	SW205	D (WWE)	9:47:00		21.10	7.34	79.00		72.40	17599.00	10.27	75.60
1/12/2023	SW206	S (WWE)	9:43:00		20.70	7.53	71.40		75.50	14826.00	8.64	44.40
1/12/2023	SW206	D (WWE)	9:43:00		21.00	7.35	73.60		73.80	14751.00	8.60	62.30
1/12/2023	SW207	S (WWE)	9:39:00		21.20	7.47	67.90		74.70	15928.00	9.31	40.20
1/12/2023	SW207	D (WWE)	9:39:00		21.50	7.36	82.60		64.70	35401.00	22.40	42.10
1/12/2023	SW208	S (WWE)	9:51:00		20.90	6.46	78.80		78.80	11377.00	6.46	59.20
1/12/2023	SW208	D (WWE)	9:51:00		21.30	7.30	63.40		63.40	33867.00	21.21	55.20
1/12/2023	SW209	S (WWE)	9:35:00		21.50	7.42	80.80		67.30	24817.00	15.80	21.50
1/12/2023	SW209	D (WWE)	9:35:00		21.40	7.41	81.80		65.50	31659.00	19.78	72.50
1/12/2023	SW210	S (WWE)			21.20	7.47	86.80		73.80	33059.00	20.83	17.30
1/12/2023	SW210	D (WWE)			21.00	7.49	87.80		74.10	33850.00	22.66	36.00
1/12/2023	SW211	S (WWE)			21.20	7.50	102.30		75.20	33395.00	20.96	14.80
1/12/2023	SW211	D (WWE)			20.80	7.64	100.80		74.40	35269.00	22.26	21.50
29/11/2023	SW212	S (WWE)			20.50	7.69	55.90		76.00	36716.00	23.29	17.80
29/11/2023	SW212	D (WWE)			20.70	7.52	93.30		67.40	34588.00	21.78	
29/11/2023	SW213	S (WWE)			22.80	7.38	82.10		77.80	24691.00	15.03	23.20
29/11/2023	SW213	D (WWE)			20.60	7.43	92.10		62.20	42484.00	27.36	60.20
29/11/2023	SW214	S (WWE)			21.70	7.51	87.50		78.20	28832.00	17.82	19.20
29/11/2023	SW214	D (WWE)			21.90	7.48	87.30		77.00	28431.00	17.55	19.40
29/11/2023	SW215	S (WWE)	9:57:00		21.00	7.61	70.10		79.50	7940.00	4.45	67.50
29/11/2023	SW215	D (WWE)	9:57:00		21.10	7.35	73.30		79.00	8026.00	4.48	65.90
29/11/2023	SW216	S (WWE)			19.40	7.82	96.50		80.20	42448.00	27.34	36.00
29/11/2023	SW216	D (WWE)			19.20	7.82	94.40		81.80	43009.00	27.74	86.50
29/11/2023	SW217	S (WWE)			17.10	7.88	110.10		83.00	52659.00	34.76	12.00
29/11/2023	SW217	D (WWE)			16.10	7.96	107.90		84.80	55195.00	36.63	18.80
EVENT STATISTICAL SUMMARY												
Number of results					33.00	33.00	33.00		33.00	33.00	33.00	32.00
Maximum Value					22.80	7.96	116.60		84.80	55195.00	36.63	86.50
Mean Value					20.82	7.38	83.75		68.88	26580.70	16.61	37.31
Median Value					21.10	7.42	82.10		73.80	24817.00	15.80	24.05
Minimum Value					16.10	6.46	55.90		25.20	7940.00	4.45	12.00

Table 111: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 13.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW101	SW101	29 Nov 2023	<100	<50	<100	<100	<50	300	300	<0.001	<0.2	1.6	<0.05	<0.005	22	1.3	<0.001	0.002	0.002	0.96
3365/SW102	SW102	29 Nov 2023	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.3	<0.05	<0.005	<5	0.18	<0.001	<0.001	<0.001	0.1
3365/SW103	SW103	29 Nov 2023	<100	<50	<100	<100	<50	200	200	<0.001	<0.2	1.0	<0.05	<0.005	<5	1	<0.001	0.001	0.004	0.69

Statistics																		
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	2	2	1	0	3	0	0	1	3	0	2	2	3
Minimum Concentration	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.3	<0.05	<0.005	<5	0.18	<0.001	0.001	<0.001	0.1
Maximum Concentration	<100	<50	<100	<100	<50	300	300	0.002	<0.2	1.6	<0.05	<0.005	22	1.3	<0.001	0.002	0.004	0.96
Average Concentration *	35	25	50	50	25	168	168	0.001	0.1	0.97	0.025	0.0025	9	0.83	0.0005	0.0012	0.0022	0.58
Median Concentration *	50	25	50	50	25	200	200	0.0005	0.1	1	0.025	0.0025	2.5	1	0.0005	0.001	0.002	0.69

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																		
3365/SW101	SW101	29 Nov 2023	0.001	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW102	SW102	29 Nov 2023	<0.001	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW103	SW103	29 Nov 2023	<0.001	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			0.001	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			0.001	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.00067	0.000025	0.0005	0.0057	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.0005	0.000025	0.0005	0.005	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH															
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3365/SW101	SW101	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW102	SW102	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW103	SW103	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs								TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50	

Field ID	Location Code	Date	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW101	SW101	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW102	SW102	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW103	SW103	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50

Statistics																
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
Average Concentration *			0.00025	0.00005	1	1	1	1	1	1	1	35	25	50	50	25
Median Concentration *			0.00025	0.00005	1	1	1	1	1	1	1	50	25	50	50	25

* A Non Detect Multiplier of 0.5 has been applied.

Table 112: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event 13.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW201 W/1	SW201	01 Dec 2023	<10	<50	<100	<100	<50	1,000	1,000	0.002	<0.2	0.7	0.1	0.070	12	0.19	0.001	<0.001	<0.001	0.38
3365/SW201 W/2	SW201	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	1.6	0.1	0.060	15	0.22	0.001	0.003	0.002	0.4
3365/SW202 W/1	SW202	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.03	16	0.22	<0.001	<0.001	<0.001	0.35
3365/SW202 W/2	SW202	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.03	12	0.27	0.002	0.002	0.002	0.39
3365/SW203 W/1	SW203	01 Dec 2023	<10	<50	<100	<100	<50	800	800	0.001	<0.2	0.5	0.08	0.03	16	0.17	0.001	<0.001	<0.001	0.39
3365/SW203 W/2	SW203	01 Dec 2023	<10	<50	<100	<100	<50	100	100	0.001	<0.2	0.6	0.08	0.04	12	0.18	0.001	<0.001	<0.001	0.38
3365/SW204 W/1	SW204	29 Nov 2023	<100	<50	<100	<100	<50	1,100	1,100	<0.001	<0.2	1.3	<0.05	<0.005	10	0.54	<0.001	0.001	<0.001	0.55
3365/SW204 W/2	SW204	29 Nov 2023	<100	<50	<100	<100	<50	700	700	<0.001	<0.2	1.2	<0.05	<0.005	12	0.52	<0.001	0.001	<0.001	0.53
3365/SW205 W/1	SW205	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.02	14	0.29	<0.001	<0.001	<0.001	0.44
3365/SW205 W/2	SW205	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.02	20	0.23	<0.001	<0.001	0.001	0.43
3365/SW206 W/1	SW206	01 Dec 2023	<10	<50	<100	<100	<50			0.001	<0.2	0.3	<0.05	0.02	8	0.3	<0.001	<0.001	<0.001	0.47
3365/SW206 W/2	SW206	01 Dec 2023	<10	<50	<100	<100	<50	1,000	1,000	0.002	<0.2	0.3	<0.05	0.02	12	0.28	<0.001	<0.001	<0.001	0.44
3365/SW207 W/1	SW207	01 Dec 2023	<10	<50	<100	<100	<50			0.001	<0.2	0.3	<0.05	0.02	10	0.34	<0.001	<0.001	<0.001	0.48
3365/SW207 W/2	SW207	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.02	8	0.28	<0.001	<0.001	<0.001	0.43
3365/SW208 W/1	SW208	01 Dec 2023	<10	<50	<100	<100	<50			0.002	<0.2	0.3	<0.05	0.02	10	0.27	<0.001	<0.001	<0.001	0.44
3365/SW208 W/2	SW208	01 Dec 2023	<10	<50	<100	<100	<50	1,000	1,000	0.002	<0.2	0.3	<0.05	0.02	10	0.23	<0.001	<0.001	<0.001	0.33
3365/SW209 W/1	SW209	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.02	11	0.25	<0.001	<0.001	<0.001	0.4
3365/SW209 W/2	SW209	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.02	9	0.27	<0.001	<0.001	<0.001	0.4
3365/SW210 W/1	SW210	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.02	6	0.26	0.001	<0.001	<0.001	0.36
3365/SW210 W/2	SW210	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.02	<5	0.26	<0.001	<0.001	<0.001	0.35
3365/SW211 W/1	SW211	01 Dec 2023	<10	<50	<100	<100	<50	100	100	<0.001	<0.2	0.3	0.05	0.02	8	0.18	0.001	<0.001	<0.001	0.3
3365/SW211 W/2	SW211	01 Dec 2023	<10	<50	<100	<100	<50			0.001	<0.2	0.3	<0.05	0.02	5	0.19	0.001	<0.001	<0.001	0.32
3365/SW212 W/1	SW212	01 Dec 2023	<10	<50	<100	<100	<50			0.001	<0.2	0.3	<0.05	0.02	9	0.26	<0.001	<0.001	0.046	0.38
3365/SW212 W/2	SW212	01 Dec 2023	<10	<50	<100	<100	<50	1,000	1,000	<0.001	<0.2	0.3	0.05	0.02	7	0.29	<0.001	<0.001	0.001	0.38
3365/SW213 W/1	SW213	01 Dec 2023	<10	<50	<100	<100	<50			0.002	<0.2	0.3	<0.05	0.02	12	0.38	<0.001	<0.001	<0.001	0.46
3365/SW213 W/2	SW213	01 Dec 2023	<10	<50	<100	<100	<50			0.002	<0.2	0.3	<0.05	0.02	12	0.29	<0.001	<0.001	0.001	0.44
3365/SW214 W/1	SW214	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.02	8	0.26	<0.001	<0.001	<0.001	0.4
3365/SW214 W/2	SW214	01 Dec 2023	<10	<50	<100	<100	<50			0.001	<0.2	0.3	<0.05	0.02	8	0.31	<0.001	<0.001	<0.001	0.37
3365/SW215 W/1	SW215	01 Dec 2023	<10	<50	<100	<100	<50	3,000	3,000	0.002	<0.2	0.3	<0.05	0.02	9	0.26	<0.001	<0.001	<0.001	0.36
3365/SW215 W/2	SW215	01 Dec 2023	<10	<50	<100	<100	<50	1,000	1,000	<0.001	<0.2	0.3	<0.05	0.02	8	0.23	<0.001	<0.001	<0.001	0.36
3365/SW216 W/1	SW216	01 Dec 2023	<10	<50	<100	<100	<50			0.002	<0.2	0.4	<0.05	0.02	10	0.25	<0.001	<0.001	0.001	0.39
3365/SW216 W/2	SW216	01 Dec 2023	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.03	12	0.29	<0.001	<0.001	0.001	0.38
3365/SW217 W/1	SW217	01 Dec 2023	<10	<50	<100	<100	<50	300	300	<0.001	<0.2	0.3	<0.05	0.02	7	0.2	<0.001	<0.001	<0.001	0.25
3365/SW217 W/2	SW217	01 Dec 2023	<10	<50	<100	<100	<50			0.001	<0.2	0.2	<0.05	0.02	6	0.19	0.001	<0.001	<0.001	0.25

Statistics																			
Number of Results	34	34	34	34	34	12	12	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects	0	0	0	0	0	12	12	16	0	34	6	32	33	34	9	4	8	34	34
Minimum Concentration	<10	<50	<100	<100	<50	100	100	0.001	<0.2	0.2	0.05	<0.005	5	0.17	0.001	0.001	0.001	0.001	0.25
Maximum Concentration	<100	<50	<100	<100	<50	3,000	3,000	0.002	<0.2	1.6	0.1	0.07	20	0.54	0.002	0.003	0.046	0.55	0.55
Average Concentration *	7.6	25	50	50	25	925	925	0.00097	0.1	0.42	0.034	0.023	10	0.27	0.00066	0.00065	0.002	0.39	0.39
Median Concentration *	5	25	50	50	25	1,000	1,000	0.0005	0.1	0.3	0.025	0.02	10	0.26	0.0005	0.0005	0.0005	0.39	0.39

* A Non Detect Multiplier of 0.5 has been applied.

[illegible]

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
EQI	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date													
3365/SW201 W/1	SW201	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW201 W/2	SW201	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW202 W/1	SW202	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW202 W/2	SW202	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW203 W/1	SW203	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW203 W/2	SW203	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW204 W/1	SW204	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW204 W/2	SW204	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW205 W/1	SW205	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW205 W/2	SW205	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW206 W/1	SW206	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW206 W/2	SW206	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW207 W/1	SW207	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW207 W/2	SW207	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW208 W/1	SW208	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW208 W/2	SW208	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW209 W/1	SW209	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW209 W/2	SW209	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW210 W/1	SW210	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW210 W/2	SW210	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW211 W/1	SW211	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW211 W/2	SW211	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW212 W/1	SW212	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW212 W/2	SW212	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW213 W/1	SW213	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW213 W/2	SW213	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW214 W/1	SW214	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW214 W/2	SW214	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW215 W/1	SW215	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW215 W/2	SW215	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW216 W/1	SW216	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW216 W/2	SW216	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW217 W/1	SW217	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW217 W/2	SW217	01 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50

Statistics														
Number of Results	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	7.6	25	50	50	25
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	5	25	50	50	25

* A Non Detect Multiplier of 0.5 has been applied.

Table 113: Laboratory water analysis and statistical summary for Lake Wollumbulla surface waters during Event 13.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW301 W/1	SW301	29 Nov 2023	<100	<50	<100	<100	<50	400	400	<0.001	<0.2	1.0	<0.05	<0.005	5	1.7	<0.001	0.002	0.005	0.99
3365/SW301 W/2	SW301	29 Nov 2023	<100	<50	<100	<100	<50	300	300	<0.001	<0.2	1	<0.05	<0.005	<5	1.7	<0.001	0.002	0.002	1
3365/SW302 W/1	SW302	29 Nov 2023	<100	<50	<100	<100	<50	800	800	<0.001	<0.2	1	<0.05	<0.005	<5	1.2	<0.001	0.002	0.003	0.87
3365/SW302 W/2	SW302	29 Nov 2023	<100	<50	<100	<100	<50	700	700	0.002	<0.2	1.0	<0.05	<0.005	<5	1.4	<0.001	0.002	0.002	0.92
3365/SW303 W/1	SW303	30 Nov 2023	<100	<50	<100	<100	<50	2,400	2,400	0.002	<0.2	0.7	<0.05	<0.005	32	0.92	0.001	0.002	0.001	0.76
3365/SW303 W/2	SW303	30 Nov 2023	<100	<50	180	<100	180	1,000	1,000	0.001	<0.2	0.9	<0.05	<0.005	21	0.82	<0.001	0.002	0.002	0.73
3365/SW304 W/1	SW304	30 Nov 2023	<100	<50	<100	<100	<50			<0.001	<0.2	0.9	<0.05	<0.005	28	2.5	<0.001	0.004	0.003	1.5
3365/SW304 W/2	SW304	30 Nov 2023	<100	<50	<100	<100	<50	1,000	1,000	<0.001	<0.2	0.8	<0.05	<0.005	28	2.8	<0.001	0.004	0.002	1.7
3365/SW305 W/1	SW305	29 Nov 2023	<100	<50	<100	<100	<50	100	100	<0.001	<0.2	1.0	<0.05	<0.005	<5	1.4	<0.001	0.002	0.003	0.99
3365/SW305 W/2	SW305	29 Nov 2023	<100	<50	<100	<100	<50	180	180	0.001	<0.2	1.3	<0.05	<0.005	6	1.4	<0.001	0.002	0.002	1.1
3365/SW306 W/1	SW306	29 Nov 2023	<100	<50	<100	<100	<50			<0.001	<0.2	0.9	<0.05	<0.005	8	1.2	<0.001	0.002	0.002	0.86
3365/SW306 W/2	SW306	29 Nov 2023	<100	<50	<100	<100	<50	1,000	1,000	<0.001	<0.2	0.9	<0.05	<0.005	11	1.2	<0.001	0.002	0.003	0.87
3365/SW307 W/1	SW307	30 Nov 2023	<100	390	<100	<100	390	200	200	<0.001	<0.2	0.6	<0.05	<0.005	<5	0.5	<0.001	0.001	0.003	0.38
3365/SW307 W/2	SW307	30 Nov 2023	<100	320	<100	<100	320	100	100	<0.001	<0.2	0.5	<0.05	<0.005	<5	0.55	<0.001	<0.001	0.002	0.38
3365/SW308 W/1	SW308	30 Nov 2023	<100	72	<100	<100	70	200	200	<0.001	<0.2	1.0	<0.05	<0.005	14	1.6	<0.001	0.003	0.002	1.1
3365/SW308 W/2	SW308	30 Nov 2023	<100	<50	<100	<100	<50	200	200	<0.001	<0.2	1	<0.05	<0.005	8	1.9	0.001	0.003	0.002	1.2

Statistics																			
Number of Results	16	16	16	16	16	14	14	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects	0	3	1	0	4	14	14	4	0	16	0	0	10	16	2	15	16	16	16
Minimum Concentration	<100	<50	<100	<100	<50	100	100	0.001	<0.2	0.5	<0.05	<0.005	5	0.5	0.001	0.001	0.001	0.38	
Maximum Concentration	<100	390	180	<100	390	2,400	2,400	0.002	<0.2	1.3	<0.05	<0.005	32	2.8	0.001	0.004	0.005	1.7	
Average Concentration *	50	69	58	50	79	613	613	0.00075	0.1	0.91	0.025	0.0025	11	1.4	0.00056	0.0022	0.0024	0.96	
Median Concentration *	50	25	50	50	25	350	350	0.0005	0.1	0.95	0.025	0.0025	7	1.4	0.0005	0.002	0.002	0.955	

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQI	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																			
3365/SW301 W/1	SW301	29 Nov 2023	<0.001	<0.00005	<0.001	0.013	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW301 W/2	SW301	29 Nov 2023	<0.001	<0.00005	<0.001	0.006	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW302 W/1	SW302	29 Nov 2023	<0.001	<0.00005	<0.001	0.004	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW302 W/2	SW302	29 Nov 2023	<0.001	<0.00005	<0.001	0.004	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW303 W/1	SW303	30 Nov 2023	<0.001	<0.00005	<0.001	0.006	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW303 W/2	SW303	30 Nov 2023	<0.001	<0.00005	<0.001	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW304 W/1	SW304	30 Nov 2023	0.002	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW304 W/2	SW304	30 Nov 2023	0.002	<0.00005	<0.001	0.014	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW305 W/1	SW305	29 Nov 2023	<0.001	<0.00005	<0.001	0.015	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW305 W/2	SW305	29 Nov 2023	0.001	<0.00005	<0.001	0.004	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW306 W/1	SW306	29 Nov 2023	<0.001	<0.00005	<0.001	0.006	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW306 W/2	SW306	29 Nov 2023	<0.001	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW307 W/1	SW307	30 Nov 2023	<0.001	<0.00005	<0.001	0.017	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW307 W/2	SW307	30 Nov 2023	<0.001	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW308 W/1	SW308	30 Nov 2023	<0.001	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW308 W/2	SW308	30 Nov 2023	0.002	<0.00005	<0.001	0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	

Statistics																				
Number of Results			16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects			4	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			0.001	<0.00005	<0.001	0.004	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			0.002	<0.00005	<0.001	0.017	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.00081	0.000025	0.0005	0.0083	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.0005	0.000025	0.0005	0.007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

EQ					PAH															
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3365/SW301 W/1	SW301	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW301 W/2	SW301	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW302 W/1	SW302	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW302 W/2	SW302	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW303 W/1	SW303	30 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW303 W/2	SW303	30 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW304 W/1	SW304	30 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW304 W/2	SW304	30 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
3365/SW305 W/1	SW305	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW305 W/2	SW305	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW306 W/1	SW306	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW306 W/2	SW306	29 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW307 W/1	SW307	30 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW307 W/2	SW307	30 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW308 W/1	SW308	30 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW308 W/2	SW308	30 Nov 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results			16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	0.1	<0.1	<0.1	0.1	0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	0.1	<0.1	<0.1	0.1	0.1	0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.053	0.05	0.05	0.05	0.053	0.05	0.053	0.053	0.05	0.05	0.053	0.053	0.053
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzol(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
EQI	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date													
3365/SW301 W/1	SW301	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW301 W/2	SW301	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW302 W/1	SW302	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW302 W/2	SW302	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW303 W/1	SW303	30 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW303 W/2	SW303	30 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	150	150
3365/SW304 W/1	SW304	30 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW304 W/2	SW304	30 Nov 2023	<0.0005	0.00080	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW305 W/1	SW305	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW305 W/2	SW305	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW306 W/1	SW306	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW306 W/2	SW306	29 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW307 W/1	SW307	30 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	450	<100	450
3365/SW307 W/2	SW307	30 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	360	<100	360
3365/SW308 W/1	SW308	30 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
3365/SW308 W/2	SW308	30 Nov 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50

Statistics															
Number of Results			16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects			0	1	0	0	0	0	0	0	0	0	2	1	3
Minimum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<100	<50	<100	<100	<50
Maximum Concentration			<0.0005	0.0008	<2	<2	<2	<2	<2	<2	<100	<50	450	150	450
Average Concentration *			0.00025	0.000097	1	1	1	1	1	1	50	25	94	56	80
Median Concentration *			0.00025	0.00005	1	1	1	1	1	1	50	25	50	50	25

* A Non Detect Multiplier of 0.5 has been applied.

Table 114: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 13.

	Biological	Inorganics		
	Faecal Coliforms	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	mg/L	mg/L	mg/L
EQL	1	0.1	0.05	0.005

Field ID	Location Code	Date				
3365/GW201	GW201	29 Nov 2023	<10	0.1	0.1	<0.005
3365/GW202	GW202	29 Nov 2023		1.5	0.07	<0.005
3365/GW203	GW203	29 Nov 2023	<1,000	0.1	0.08	<0.005
3365/GW204	GW204	29 Nov 2023	<100	0.9	0.69	0.02
3365/GW205	GW205	29 Nov 2023	3,000	0.9	<0.05	<0.005
3365/GW206	GW206	29 Nov 2023		0.6	0.08	0.054
3365/GW207	GW207	29 Nov 2023	<1,000	0.9	<0.05	<0.005

Statistics

Number of Results	5	7	7	7
Number of Detects	1	7	5	2
Minimum Concentration	<10	0.1	<0.05	<0.005
Maximum Concentration	3,000	1.5	0.69	0.054
Average Concentration *	811	0.71	0.15	0.012
Median Concentration *	500	0.9	0.08	0.0025

* A Non Detect Multiplier of 0.5 has been applied.

Appendix AB – Event 13 Documents

Multi Parameter Water Meter

Instrument **YSI Pro DSS**
Serial No. **15J101503**



Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
	Recharge OK?	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH/ORP	✓	
	2. Turbidity	✓	
	3. Conductivity	✓	
	4. D.O	✓	
	5. Temp	✓	
	6. Depth	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
2. pH 7.00		pH 7.00		413975	pH 3.99
3. pH 4.00		pH 4.00		405966	pH 7.05
4. ORP		228.02 mV		A406331/B398193	237.7 mV
5. SPC		2760uS/cm		406852	2761 uS/cm
6. D.O		0%		407802	-0.20%
7. Turbidity		100 NTU		413840	99.7 NTU
8. Temp		20.9 °C		MultiTherm	20.9 °C

Calibrated by:

Samuel Tanner

Calibration date:

23/11/2023

Next calibration due:

21/05/2024

SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0											
Name	P1203365 – Water Sampling, West Culburra, NSW										
Martens Contact Officer	Trystan Richards					Contact Email	trichards@martens.com.au				
Sampling and Shipping	Sample Date	29.11.2023 – 30.11.2023		Dispatch Date	1.12.2023		Turnaround Time			Standard	
	Our Reference	P1203365COC34V01				Shipping Method (X)	Hand	X	Post		Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt	Phone	02 9910 6200	Fax		Email	samplereceipt@envirolabservices.com.au			
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address		trichards@martens.com.au, bmonaghan@martens.com.au and CC ANorris@martens.com.au		

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
1 3365/GW201						X	
2 3365/GW202						X	
3 3365/GW203						X	
4 3365/GW204						X	
5 3365/GW205						X	
6 3365/GW206						X	
7 3365/GW207						X	
8 3365/SW101	X	X	X	X			
9 3365/SW102	X	X	X	X			

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 339245

Date Received: 01/12/23
Time Received: 1430
Received By: JN
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Head Office
Suite 201, 20 George Street
Hornsby NSW 2077, Australia
Ph 02 9476 9999 Fax 02 9476 8767

> mail@martens.com.au
> www.martens.com.au
MARTENS & ASSOCIATES P/L
ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coll,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
10 3365/SW103	X	X	X	X			
11 3365/SW201 W/1	X	X	X	X			
12 3365/SW201 W/2	X	X	X	X			
13 3365/SW202 W/1	X	X	X	X			
14 3365/SW202 W/2	X	X	X	X			
15 3365/SW203 W/1	X	X	X	X			
16 3365/SW203 W/2	X	X	X	X			
17 3365/SW204 W/1	X	X	X	X			
18 3365/SW204 W/2	X	X	X	X			
19 3365/SW205 W/1	X	X	X	X			
20 3365/SW205 W/1 W/2	X	X	X	X			
21 3365/SW206 W/1	X	X	X	X			
22 3365/SW206 W/2	X	X	X	X			
23 3365/SW207 W/1	X	X	X	X			
24 3365/SW207 W/2	X	X	X	X			
25 3365/SW208 W/1	X	X	X	X			
26 3365/SW208 W/2	X	X	X	X			
27 3365/SW209 W/1	X	X	X	X			
28 3365/SW209 W/2	X	X	X	X			
29 3365/SW210 W/1	X	X	X	X			
30 3365/SW210 W/2	X	X	X	X			
31 3365/SW211 W/1	X	X	X	X			
32 3365/SW211 W/2	X	X	X	X			
33 3365/SW212 W/1	X	X	X	X			
34 3365/SW212 W/2	X	X	X	X			
35 3365/SW213 W/1	X	X	X	X			
36 3365/SW213 W/2	X	X	X	X			
37 3365/SW214 W/1	X	X	X	X			
38 3365/SW214 W/2	X	X	X	X			

339245
1/12/23, JN

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
39 3365/SW215 W/1	X	X	X	X			
40 3365/SW215 W/2	X	X	X	X			
41 3365/SW216 W/1	X	X	X	X			
42 3365/SW216 W/2	X	X	X	X			
43 3365/SW217 W/1	X	X	X	X			
44 3365/SW217 W/2	X	X	X	X			
45 3365/SW301 W/1	X	X	X	X			
46 3365/SW301 W/2	X	X	X	X			
47 3365/SW302 W/1	X	X	X	X			
48 3365/SW302 W/2	X	X	X	X			
49 3365/SW303 W/1	X	X	X	X			
50 3365/SW303 W/2	X	X	X	X			
51 3365/SW304 W/1	X	X	X	X			
52 3365/SW304 W/2	X	X	X	X			
53 3365/SW305 W/1	X	X	X	X			
54 3365/SW305 W/2	X	X	X	X			
55 3365/SW306 W/1	X	X	X	X			
56 3365/SW306 W/2	X	X	X	X			
57 3365/SW307 W/1	X	X	X	X			
58 3365/SW307 W/2	X	X	X	X			
59 3365/SW308 W/1	X	X	X	X			
60 3365/SW308 W/2	X	X	X	X			
61 3365/DUP01	X						
62 3365/DUP02	X						
63 3365/DUP03	X						
64 3365/DUP04	X						
65 3365/GW DUP01					X		

339245,
1/12/23, JN

CERTIFICATE OF ANALYSIS 339245

Client Details

Client	Martens & Associates Pty Ltd
Attention	Trystan Richards
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	65 Water
Date samples received	01/12/2023
Date completed instructions received	01/12/2023

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	08/12/2023
Date of Issue	08/12/2023
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
 Greta Petzold, Operation Manager
 Jenny He, Senior Chemist
 Liam Timmins, Organics Supervisor
 Loren Bardwell, Development Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH in Water (C6-C9) NEPM

Our Reference		339245-8	339245-9	339245-10	339245-11	339245-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	07/12/2023	06/12/2023	07/12/2023	06/12/2023	06/12/2023
Date analysed	-	08/12/2023	07/12/2023	08/12/2023	07/12/2023	07/12/2023
TRH C ₆ - C ₉	µg/L	<100	<10	<100	<10	<10
TRH C ₆ - C ₁₀	µg/L	<100	<10	<100	<10	<10
Surrogate Dibromofluoromethane	%	95	103	94	103	104
Surrogate Toluene-d8	%	97	100	98	100	100
Surrogate 4-Bromofluorobenzene	%	117	116	118	121	119

vTRH in Water (C6-C9) NEPM

Our Reference		339245-13	339245-14	339245-15	339245-16	339245-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	06/12/2023	06/12/2023	07/12/2023	06/12/2023	07/12/2023
Date analysed	-	07/12/2023	07/12/2023	08/12/2023	07/12/2023	08/12/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<100
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<100
Surrogate Dibromofluoromethane	%	104	104	96	104	94
Surrogate Toluene-d8	%	100	100	96	100	98
Surrogate 4-Bromofluorobenzene	%	117	118	106	119	116

vTRH in Water (C6-C9) NEPM

Our Reference		339245-18	339245-19	339245-20	339245-21	339245-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	07/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	08/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
TRH C ₆ - C ₉	µg/L	<100	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<100	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	94	106	104	105	104
Surrogate Toluene-d8	%	99	100	100	100	100
Surrogate 4-Bromofluorobenzene	%	115	119	120	117	120

vTRH in Water (C6-C9) NEPM

Our Reference		339245-23	339245-24	339245-25	339245-26	339245-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	105	106	106	104	105
Surrogate Toluene-d8	%	100	100	100	100	100
Surrogate 4-Bromofluorobenzene	%	118	117	115	115	116

vTRH in Water (C6-C9) NEPM

Our Reference		339245-28	339245-29	339245-30	339245-31	339245-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	105	105	105	105	106
Surrogate Toluene-d8	%	99	100	99	99	100
Surrogate 4-Bromofluorobenzene	%	116	114	116	117	118

vTRH in Water (C6-C9) NEPM

Our Reference		339245-33	339245-34	339245-35	339245-36	339245-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	105	106	106	107	106
Surrogate Toluene-d8	%	99	100	99	100	100
Surrogate 4-Bromofluorobenzene	%	116	112	114	110	108

vTRH in Water (C6-C9) NEPM

Our Reference		339245-38	339245-39	339245-40	339245-41	339245-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	120	114	118	106	108
Surrogate Toluene-d8	%	102	98	99	99	98
Surrogate 4-Bromofluorobenzene	%	128	112	109	107	98

vTRH in Water (C6-C9) NEPM

Our Reference		339245-43	339245-44	339245-45	339245-46	339245-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	06/12/2023	06/12/2023	07/12/2023	07/12/2023	07/12/2023
Date analysed	-	07/12/2023	07/12/2023	08/12/2023	08/12/2023	08/12/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<100	<100	<100
TRH C ₆ - C ₁₀	µg/L	<10	<10	<100	<100	<100
Surrogate Dibromofluoromethane	%	104	131	95	94	95
Surrogate Toluene-d8	%	94	65	99	99	99
Surrogate 4-Bromofluorobenzene	%	98	77	113	112	112

vTRH in Water (C6-C9) NEPM

Our Reference		339245-48	339245-49	339245-50	339245-51	339245-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
TRH C ₆ - C ₉	µg/L	<100	<100	<100	<100	<100
TRH C ₆ - C ₁₀	µg/L	<100	<100	<100	<100	<100
Surrogate Dibromofluoromethane	%	94	94	95	94	94
Surrogate Toluene-d8	%	98	98	99	98	98
Surrogate 4-Bromofluorobenzene	%	114	111	110	112	110

vTRH in Water (C6-C9) NEPM

Our Reference		339245-53	339245-54	339245-55	339245-56	339245-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	07/12/2023	07/12/2023	07/12/2023	07/12/2023	07/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
TRH C ₆ - C ₉	µg/L	<100	<100	<100	<100	<100
TRH C ₆ - C ₁₀	µg/L	<100	<100	<100	<100	<100
Surrogate Dibromofluoromethane	%	94	95	93	93	94
Surrogate Toluene-d8	%	98	98	98	98	98
Surrogate 4-Bromofluorobenzene	%	110	112	110	111	109

vTRH in Water (C6-C9) NEPM

Our Reference		339245-58	339245-59	339245-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water
Date extracted	-	07/12/2023	07/12/2023	07/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023
TRH C ₆ - C ₉	µg/L	<100	<100	<100
TRH C ₆ - C ₁₀	µg/L	<100	<100	<100
Surrogate Dibromofluoromethane	%	94	94	94
Surrogate Toluene-d8	%	98	98	98
Surrogate 4-Bromofluorobenzene	%	109	111	110

svTRH (C10-C40) in Water						
Our Reference	UNITS	339245-8	339245-9	339245-10	339245-11	339245-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	74	96	74	78	90

svTRH (C10-C40) in Water						
Our Reference	UNITS	339245-13	339245-14	339245-15	339245-16	339245-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	05/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	95	99	88	79	101

svTRH (C10-C40) in Water

Our Reference		339245-18	339245-19	339245-20	339245-21	339245-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	85	63	92	83	78

svTRH (C10-C40) in Water

Our Reference		339245-23	339245-24	339245-25	339245-26	339245-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	91	85	92	75	68

svTRH (C10-C40) in Water

Our Reference		339245-28	339245-29	339245-30	339245-31	339245-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	73	87	89	86	104

svTRH (C10-C40) in Water

Our Reference		339245-33	339245-34	339245-35	339245-36	339245-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	93	103	93	79	76

svTRH (C10-C40) in Water

Our Reference		339245-38	339245-39	339245-40	339245-41	339245-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	97	97	76	79	78

svTRH (C10-C40) in Water

Our Reference		339245-43	339245-44	339245-45	339245-46	339245-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	76	101	93	92	98

svTRH (C10-C40) in Water

Our Reference		339245-48	339245-49	339245-50	339245-51	339245-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	150	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	150	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	180	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	180	<50	<50
Surrogate o-Terphenyl	%	107	92	86	89	85

svTRH (C10-C40) in Water

Our Reference		339245-53	339245-54	339245-55	339245-56	339245-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	450
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	450
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	390
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	390
Surrogate o-Terphenyl	%	83	80	67	83	88

svTRH (C10-C40) in Water				
Our Reference		339245-58	339245-59	339245-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	360	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	360	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	320	72	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	320	70	<50
Surrogate o-Terphenyl	%	83	65	72

PAHs in Water						
Our Reference	UNITS	339245-8	339245-9	339245-10	339245-11	339245-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	81	101	94	103	97

PAHs in Water						
Our Reference		339245-13	339245-14	339245-15	339245-16	339245-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	102	107	94	95	98

PAHs in Water						
Our Reference		339245-18	339245-19	339245-20	339245-21	339245-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	91	82	102	86	85

PAHs in Water						
Our Reference		339245-23	339245-24	339245-25	339245-26	339245-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	86	87	99	88	101

PAHs in Water						
Our Reference		339245-28	339245-29	339245-30	339245-31	339245-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	07/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	100	86	83	74	85

PAHs in Water						
Our Reference		339245-33	339245-34	339245-35	339245-36	339245-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	84	86	79	80	73

PAHs in Water						
Our Reference		339245-38	339245-39	339245-40	339245-41	339245-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	78	77	84	89	89

PAHs in Water						
Our Reference		339245-43	339245-44	339245-45	339245-46	339245-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	73	105	60	67	71

PAHs in Water						
Our Reference		339245-48	339245-49	339245-50	339245-51	339245-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	07/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	0.80
Surrogate <i>p</i> -Terphenyl-d14	%	63	61	60	60	66

PAHs in Water						
Our Reference		339245-53	339245-54	339245-55	339245-56	339245-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	63	61	60	64	69

PAHs in Water				
Our Reference		339245-58	339245-59	339245-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023
Naphthalene	µg/L	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	89	74	86

Organochlorine Pesticides in Water						
Our Reference	UNITS	339245-8	339245-9	339245-10	339245-11	339245-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	85	104	99	96	94

Organochlorine Pesticides in Water						
Our Reference		339245-13	339245-14	339245-15	339245-16	339245-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	98	102	89	94	96

Organochlorine Pesticides in Water						
Our Reference		339245-18	339245-19	339245-20	339245-21	339245-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	93	75	97	73	77

Organochlorine Pesticides in Water						
Our Reference		339245-23	339245-24	339245-25	339245-26	339245-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	79	82	94	79	92

Organochlorine Pesticides in Water						
Our Reference		339245-28	339245-29	339245-30	339245-31	339245-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	87	77	76	68	79

Organochlorine Pesticides in Water						
Our Reference		339245-33	339245-34	339245-35	339245-36	339245-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	78	80	74	73	69

Organochlorine Pesticides in Water						
Our Reference		339245-38	339245-39	339245-40	339245-41	339245-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	72	72	85	91	92

Organochlorine Pesticides in Water						
Our Reference		339245-43	339245-44	339245-45	339245-46	339245-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	73	107	89	63	76

Organochlorine Pesticides in Water						
Our Reference		339245-48	339245-49	339245-50	339245-51	339245-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	64	61	62	62	63

Organochlorine Pesticides in Water						
Our Reference		339245-53	339245-54	339245-55	339245-56	339245-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	64	60	63	61	66

Organochlorine Pesticides in Water				
Our Reference		339245-58	339245-59	339245-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023
alpha-BHC	µg/L	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	82	68	75

PCBs in Water						
Our Reference	UNITS	339245-8	339245-9	339245-10	339245-11	339245-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	85	104	99	96	94

PCBs in Water						
Our Reference	UNITS	339245-13	339245-14	339245-15	339245-16	339245-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	98	102	89	94	96

PCBs in Water						
Our Reference		339245-18	339245-19	339245-20	339245-21	339245-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	93	75	97	73	77

PCBs in Water						
Our Reference		339245-23	339245-24	339245-25	339245-26	339245-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	79	82	94	79	92

PCBs in Water						
Our Reference		339245-28	339245-29	339245-30	339245-31	339245-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	05/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	87	77	76	68	79

PCBs in Water						
Our Reference		339245-33	339245-34	339245-35	339245-36	339245-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	78	80	74	73	69

PCBs in Water						
Our Reference		339245-38	339245-39	339245-40	339245-41	339245-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	72	72	85	91	92

PCBs in Water						
Our Reference		339245-43	339245-44	339245-45	339245-46	339245-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	79	107	89	63	76

PCBs in Water						
Our Reference		339245-48	339245-49	339245-50	339245-51	339245-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	64	61	62	62	63

PCBs in Water						
Our Reference		339245-53	339245-54	339245-55	339245-56	339245-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023	08/12/2023	08/12/2023
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	64	60	63	61	66

PCBs in Water				
Our Reference		339245-58	339245-59	339245-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water
Date extracted	-	04/12/2023	04/12/2023	04/12/2023
Date analysed	-	08/12/2023	08/12/2023	08/12/2023
Aroclor 1016	µg/L	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	82	68	75

All metals in water - total

Our Reference		339245-8	339245-9	339245-10	339245-11	339245-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	1,300	180	1,000	190	220
Arsenic-Total	µg/L	<1	<1	<1	1	1
Chromium-Total	µg/L	2	<1	1	<1	3
Copper-Total	µg/L	2	<1	4	<1	2
Iron-Total	µg/L	960	100	690	380	400
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	5	5	7	4	11

All metals in water - total

Our Reference		339245-13	339245-14	339245-15	339245-16	339245-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	220	270	170	180	540
Arsenic-Total	µg/L	<1	2	1	1	<1
Chromium-Total	µg/L	<1	2	<1	<1	1
Copper-Total	µg/L	<1	2	<1	<1	<1
Iron-Total	µg/L	350	390	390	380	550
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	3	3	4	2	4

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

All metals in water - total						
Our Reference		339245-18	339245-19	339245-20	339245-21	339245-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	520	290	230	300	280
Arsenic-Total	µg/L	<1	<1	<1	<1	<1
Chromium-Total	µg/L	1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	1	<1	<1
Iron-Total	µg/L	530	440	430	470	440
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	3	<1	4	6	<1

All metals in water - total						
Our Reference		339245-23	339245-24	339245-25	339245-26	339245-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	340	280	270	230	250
Arsenic-Total	µg/L	<1	<1	<1	<1	<1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	480	430	440	330	400
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	4	2	2	2	1

All metals in water - total

Our Reference		339245-28	339245-29	339245-30	339245-31	339245-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	270	260	260	180	190
Arsenic-Total	µg/L	<1	1	<1	1	1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	<1	<1
Iron-Total	µg/L	400	360	350	300	320
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	<1	<1	<1	6	<1

All metals in water - total

Our Reference		339245-33	339245-34	339245-35	339245-36	339245-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	260	290	380	290	260
Arsenic-Total	µg/L	<1	<1	<1	<1	<1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	46	1	<1	1	<1
Iron-Total	µg/L	380	380	460	440	400
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	23	3	<1	14	<1

All metals in water - total						
Our Reference		339245-38	339245-39	339245-40	339245-41	339245-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	310	260	230	250	290
Arsenic-Total	µg/L	<1	<1	<1	<1	<1
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	<1	1	1
Iron-Total	µg/L	370	360	360	390	380
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	3	5	1	11	2

All metals in water - total						
Our Reference		339245-43	339245-44	339245-45	339245-46	339245-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	200	190	1,700	1,700	1,200
Arsenic-Total	µg/L	<1	1	<1	<1	<1
Chromium-Total	µg/L	<1	<1	2	2	2
Copper-Total	µg/L	<1	<1	5	2	3
Iron-Total	µg/L	250	250	990	1,000	870
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	<1	1	13	6	4

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

All metals in water - total						
Our Reference		339245-48	339245-49	339245-50	339245-51	339245-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	1,400	920	820	2,500	2,800
Arsenic-Total	µg/L	<1	1	<1	<1	<1
Chromium-Total	µg/L	2	2	2	4	4
Copper-Total	µg/L	2	1	2	3	2
Iron-Total	µg/L	920	760	730	1,500	1,700
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	2	2
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	4	6	10	7	14

All metals in water - total						
Our Reference		339245-53	339245-54	339245-55	339245-56	339245-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	1,400	1,400	1,200	1,200	500
Arsenic-Total	µg/L	<1	<1	<1	<1	<1
Chromium-Total	µg/L	2	2	2	2	1
Copper-Total	µg/L	3	2	2	3	3
Iron-Total	µg/L	990	1,100	860	870	380
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	15	4	6	5	17

All metals in water - total

Our Reference		339245-58	339245-59	339245-60	339245-61	339245-62
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2	3365/DUP01	3365/DUP02
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Aluminium-Total	µg/L	550	1,600	1,900	1,400	1,700
Arsenic-Total	µg/L	<1	<1	1	<1	<1
Chromium-Total	µg/L	<1	3	3	2	2
Copper-Total	µg/L	2	2	2	3	3
Iron-Total	µg/L	380	1,100	1,200	1,200	840
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	2	<1	1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	7	7	8	8	17

All metals in water - total

Our Reference		339245-63	339245-64
Your Reference	UNITS	3365/DUP03	3365/DUP04
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water
Date prepared	-	06/12/2023	06/12/2023
Date analysed	-	06/12/2023	06/12/2023
Aluminium-Total	µg/L	220	190
Arsenic-Total	µg/L	<1	1
Chromium-Total	µg/L	<1	<1
Copper-Total	µg/L	1	<1
Iron-Total	µg/L	390	390
Mercury-Total	µg/L	<0.05	<0.05
Lead-Total	µg/L	<1	<1
Selenium-Total	µg/L	<1	<1
Zinc-Total	µg/L	6	7

Metals in Waters - Acid extractable

Our Reference		339245-1	339245-2	339245-3	339245-4	339245-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	0.1	0.07	0.08	0.69	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-6	339245-7	339245-8	339245-9	339245-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	0.08	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-11	339245-12	339245-13	339245-14	339245-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	0.1	0.1	<0.05	<0.05	0.08

Metals in Waters - Acid extractable

Our Reference		339245-16	339245-17	339245-18	339245-19	339245-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	0.08	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-21	339245-22	339245-23	339245-24	339245-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-26	339245-27	339245-28	339245-29	339245-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-31	339245-32	339245-33	339245-34	339245-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	0.05	<0.05	<0.05	0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-36	339245-37	339245-38	339245-39	339245-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-41	339245-42	339245-43	339245-44	339245-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-46	339245-47	339245-48	339245-49	339245-50
Your Reference	UNITS	3365/SW301 W/2	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-51	339245-52	339245-53	339245-54	339245-55
Your Reference	UNITS	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		339245-56	339245-57	339245-58	339245-59	339245-60
Your Reference	UNITS	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Date analysed	-	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Miscellaneous Inorganics						
Our Reference	UNITS	339245-1	339245-2	339245-3	339245-4	339245-5
Your Reference		3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Nitrogen in water	mg/L	0.1	1.5	0.1	0.9	0.9
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	0.02	<0.005

Miscellaneous Inorganics						
Our Reference	UNITS	339245-6	339245-7	339245-8	339245-9	339245-10
Your Reference		3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	[NA]	[NA]	22	<5	<5
Total Nitrogen in water	mg/L	0.6	0.9	1.6	0.3	1.0
Phosphate as P in water	mg/L	0.054	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	[NA]	[NA]	<1	2	<1

Miscellaneous Inorganics						
Our Reference	UNITS	339245-11	339245-12	339245-13	339245-14	339245-15
Your Reference		3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	12	15	16	12	16
Total Nitrogen in water	mg/L	0.7	1.6	0.3	0.3	0.5
Phosphate as P in water	mg/L	0.070	0.060	0.03	0.03	0.03
Chlorophyll a	mg/m ³	2	<1	<1	<1	1

Miscellaneous Inorganics

Our Reference		339245-16	339245-17	339245-18	339245-19	339245-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	12	10	12	14	20
Total Nitrogen in water	mg/L	0.6	1.3	1.2	0.3	0.3
Phosphate as P in water	mg/L	0.04	<0.005	<0.005	0.02	0.02
Chlorophyll a	mg/m ³	1	<1	<1	<1	<1

Miscellaneous Inorganics

Our Reference		339245-21	339245-22	339245-23	339245-24	339245-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	8	12	10	8	10
Total Nitrogen in water	mg/L	0.3	0.3	0.3	0.3	0.3
Phosphate as P in water	mg/L	0.02	0.02	0.02	0.02	0.02
Chlorophyll a	mg/m ³	1	2	1	<1	2

Miscellaneous Inorganics

Our Reference		339245-26	339245-27	339245-28	339245-29	339245-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	10	11	9	6	<5
Total Nitrogen in water	mg/L	0.3	0.3	0.3	0.3	0.3
Phosphate as P in water	mg/L	0.02	0.02	0.02	0.02	0.02
Chlorophyll a	mg/m ³	2	<1	<1	<1	<1

Miscellaneous Inorganics

Our Reference		339245-31	339245-32	339245-33	339245-34	339245-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	8	5	9	7	12
Total Nitrogen in water	mg/L	0.3	0.3	0.3	0.3	0.3
Phosphate as P in water	mg/L	0.02	0.02	0.02	0.02	0.02
Chlorophyll a	mg/m ³	<1	1	1	<1	2

Miscellaneous Inorganics

Our Reference		339245-36	339245-37	339245-38	339245-39	339245-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	12	8	8	9	8
Total Nitrogen in water	mg/L	0.3	0.3	0.3	0.3	0.3
Phosphate as P in water	mg/L	0.02	0.02	0.02	0.02	0.02
Chlorophyll a	mg/m ³	2	<1	1	2	<1

Miscellaneous Inorganics

Our Reference		339245-41	339245-42	339245-43	339245-44	339245-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	10	12	7	6	5
Total Nitrogen in water	mg/L	0.4	0.3	0.3	0.2	1.0
Phosphate as P in water	mg/L	0.02	0.03	0.02	0.02	<0.005
Chlorophyll a	mg/m ³	2	<1	<1	1	<1

Miscellaneous Inorganics

Our Reference		339245-46	339245-47	339245-48	339245-49	339245-50
Your Reference	UNITS	3365/SW301 W/2	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	<5	<5	<5	32	21
Total Nitrogen in water	mg/L	1	1	1.0	0.7	0.9
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	<1	<1	2	2	1

Miscellaneous Inorganics

Our Reference		339245-51	339245-52	339245-53	339245-54	339245-55
Your Reference	UNITS	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	28	28	<5	6	8
Total Nitrogen in water	mg/L	0.9	0.8	1.0	1.3	0.9
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	<1	<1	<1	1	<1

Miscellaneous Inorganics

Our Reference		339245-56	339245-57	339245-58	339245-59	339245-60
Your Reference	UNITS	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Date analysed	-	01/12/2023	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Total Suspended Solids	mg/L	11	<5	<5	14	8
Total Nitrogen in water	mg/L	0.9	0.6	0.5	1.0	1
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	<1	<1	<1	<1	<1

Miscellaneous Inorganics		
Our Reference		339245-65
Your Reference	UNITS	3365/GW DUP01
Date Sampled		29/11/2023 - 30/11/2023
Type of sample		Water
Date prepared	-	01/12/2023
Date analysed	-	01/12/2023
pH	pH Units	7.1
Electrical Conductivity	µS/cm	1,500

Microbiological Testing

Our Reference		339245-1	339245-2	339245-3	339245-4	339245-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
Faecal Coliforms	cfu/100mL	<10	<1000 NBO	<1000	<100	3,000

Microbiological Testing

Our Reference		339245-6	339245-7	339245-8	339245-9	339245-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	[NA]	[NA]	300	<10	200
Faecal Coliforms	cfu/100mL	<1000 NBO	<1000	300	<10	200

Microbiological Testing

Our Reference		339245-11	339245-12	339245-13	339245-14	339245-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	1,000	>100,<1000	>100,<1000	>100,<1000	800
Faecal Coliforms	cfu/100mL	1,000	>100,<1000	>100,<1000	>100,<1000	800

Microbiological Testing

Our Reference		339245-16	339245-17	339245-18	339245-19	339245-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	100	1,100	700	>100,<1000	>100,<1000
Faecal Coliforms	cfu/100mL	100	1,100	700	>100,<1000	>100,<1000

Microbiological Testing

Our Reference		339245-21	339245-22	339245-23	339245-24	339245-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	>100,<1000	1,000	<1000 NBO	>100,<1000	>100,<1000
Faecal Coliforms	cfu/100mL	>100,<1000	1,000	<1000 NBO	>100,<1000	>100,<1000

Microbiological Testing

Our Reference		339245-26	339245-27	339245-28	339245-29	339245-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	1,000	>100,<1000	>100,<1000	>100,<1000	>100,<1000
Faecal Coliforms	cfu/100mL	1,000	>100,<1000	>100,<1000	>100,<1000	>100,<1000

Microbiological Testing

Our Reference		339245-31	339245-32	339245-33	339245-34	339245-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	100	>10, <100	>100,<1000	1,000	>100,<1000
Faecal Coliforms	cfu/100mL	100	>10, <100	>100,<1000	1,000	>100,<1000

Microbiological Testing

Our Reference		339245-36	339245-37	339245-38	339245-39	339245-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	>100,<1000	>100,<1000	>100,<1000	3,000	1,000
Faecal Coliforms	cfu/100mL	>100,<1000	>100,<1000	>100,<1000	3,000	1,000

Microbiological Testing

Our Reference		339245-41	339245-42	339245-43	339245-44	339245-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	>100,<1000	>100,<1000	300	>100,<1000	400
Faecal Coliforms	cfu/100mL	>100,<1000	>100,<1000	300	>100,<1000	400

Microbiological Testing

Our Reference		339245-46	339245-47	339245-48	339245-49	339245-50
Your Reference	UNITS	3365/SW301 W/2	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	300	800	700	2,400	1,000
Faecal Coliforms	cfu/100mL	300	800	700	2,400	1,000

Microbiological Testing

Our Reference		339245-51	339245-52	339245-53	339245-54	339245-55
Your Reference	UNITS	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	>100,<1000	1,000	100	180	>100,<1000
Faecal Coliforms	cfu/100mL	>100,<1000	1,000	100	180	>100,<1000

Microbiological Testing

Our Reference		339245-56	339245-57	339245-58	339245-59	339245-60
Your Reference	UNITS	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Date Sampled		29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023	29/11/2023 - 30/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	02/12/2023	02/12/2023	02/12/2023	02/12/2023	02/12/2023
E. coli	cfu/100mL	1,000	200	100	200	200
Faecal Coliforms	cfu/100mL	1,000	200	100	200	200

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determined stoichiometrically from the base metal concentration.
Org-020	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-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			07/12/2023	21	06/12/2023	07/12/2023		06/12/2023	[NT]
Date analysed	-			08/12/2023	21	07/12/2023	08/12/2023		07/12/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	21	<10	<10	0	90	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	21	<10	<10	0	90	[NT]
Surrogate Dibromofluoromethane	%		Org-023	103	21	105	95	10	101	[NT]
Surrogate Toluene-d8	%		Org-023	99	21	100	97	3	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	119	21	117	110	6	100	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			[NT]	25	06/12/2023	07/12/2023		06/12/2023	[NT]
Date analysed	-			[NT]	25	07/12/2023	08/12/2023		07/12/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	25	<10	<10	0	102	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	25	<10	<10	0	102	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	25	106	97	9	101	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	25	100	98	2	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	25	115	108	6	109	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			[NT]	31	06/12/2023	07/12/2023		06/12/2023	[NT]
Date analysed	-			[NT]	31	07/12/2023	08/12/2023		07/12/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	31	<10	<10	0	107	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	31	<10	<10	0	107	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	31	105	96	9	104	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	31	99	98	1	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	31	117	109	7	107	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date extracted	-			[NT]	35	06/12/2023	07/12/2023		07/12/2023	[NT]
Date analysed	-			[NT]	35	07/12/2023	08/12/2023		08/12/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	35	<10	<10	0	109	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	35	<10	<10	0	109	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	35	106	96	10	93	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	35	99	98	1	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	35	114	109	4	106	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	40	06/12/2023	07/12/2023		[NT]	[NT]
Date analysed	-			[NT]	40	07/12/2023	08/12/2023		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	40	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	40	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	40	118	96	21	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	40	99	97	2	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	40	109	109	0	[NT]	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	41	06/12/2023	07/12/2023		[NT]	[NT]
Date analysed	-			[NT]	41	07/12/2023	08/12/2023		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	41	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	41	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	41	106	96	10	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	41	99	97	2	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	41	107	109	2	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	339245-9
Date extracted	-			04/12/2023	8	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			04/12/2023	8	04/12/2023	04/12/2023		04/12/2023	04/12/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	8	<50	<50	0	92	96
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	8	<100	<100	0	92	102
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	8	<100	<100	0	86	86
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	8	<50	<50	0	92	96
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	8	<100	<100	0	92	102
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	8	<100	<100	0	86	86
Surrogate o-Terphenyl	%		Org-020	101	8	74	89	18	83	84

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	339245-15
Date extracted	-			[NT]	14	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			[NT]	14	04/12/2023	04/12/2023		06/12/2023	04/12/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	14	<50	<50	0	77	94
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	14	<100	<100	0	77	99
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	14	<100	<100	0	71	82
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	14	<50	<50	0	77	94
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	14	<100	<100	0	77	99
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	14	<100	<100	0	71	82
Surrogate o-Terphenyl	%		Org-020	[NT]	14	99	99	0	127	85

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	339245-23
Date extracted	-			[NT]	22	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			[NT]	22	05/12/2023	05/12/2023		06/12/2023	05/12/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	22	<50	<50	0	96	90
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	22	<100	<100	0	97	90
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	22	<100	<100	0	100	82
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	22	<50	<50	0	96	90
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	22	<100	<100	0	97	90
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	22	<100	<100	0	100	82
Surrogate o-Terphenyl	%		Org-020	[NT]	22	78	75	4	92	81

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QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	339245-30
Date extracted	-			[NT]	28	04/12/2023	04/12/2023		[NT]	04/12/2023
Date analysed	-			[NT]	28	05/12/2023	05/12/2023		[NT]	06/12/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	28	<50	<50	0	[NT]	107
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	28	<100	<100	0	[NT]	112
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	28	<100	<100	0	[NT]	108
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	28	<50	<50	0	[NT]	107
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	28	<100	<100	0	[NT]	112
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	28	<100	<100	0	[NT]	108
Surrogate o-Terphenyl	%		Org-020	[NT]	28	73	66	10	[NT]	98

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	339245-51
Date extracted	-			[NT]	29	04/12/2023	04/12/2023		[NT]	04/12/2023
Date analysed	-			[NT]	29	06/12/2023	06/12/2023		[NT]	06/12/2023
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	29	<50	<50	0	[NT]	105
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	29	<100	<100	0	[NT]	112
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	29	<100	<100	0	[NT]	89
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	29	<50	<50	0	[NT]	105
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	29	<100	<100	0	[NT]	112
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	29	<100	<100	0	[NT]	89
Surrogate o-Terphenyl	%		Org-020	[NT]	29	87	101	15	[NT]	91

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	39	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	39	06/12/2023	06/12/2023		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	39	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	39	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	39	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	39	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	39	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	39	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	39	97	78	22	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	48	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	48	06/12/2023	06/12/2023		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	48	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	48	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	48	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	48	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	48	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	48	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	48	107	93	14	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	60	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	60	06/12/2023	06/12/2023		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	60	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	60	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	60	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	60	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	60	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	60	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	60	72	66	9	[NT]	[NT]

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QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	339245-9
Date extracted	-			04/12/2023	8	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			05/12/2023	8	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Naphthalene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	107	117
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	95	104
Fluorene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	98	109
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	91	102
Anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	82	85
Pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	81	87
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	86	97
Benzo(b,j,k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	96	103
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	100	8	81	98	19	89	88

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	339245-15
Date extracted	-			[NT]	14	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			[NT]	14	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Naphthalene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	76	113
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	79	101
Fluorene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	79	105
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	80	102
Anthracene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	79	90
Pyrene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	76	88
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	77	96
Benzo(b,j,k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	83	107
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	14	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	14	107	105	2	85	87

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QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	339245-23
Date extracted	-			[NT]	22	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			[NT]	22	05/12/2023	05/12/2023		08/12/2023	05/12/2023
Naphthalene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	96	117
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	97	107
Fluorene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	94	109
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	98	106
Anthracene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	124	90
Pyrene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	95	92
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	72	100
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	96	108
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	22	85	67	24	102	77

QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	339245-30
Date extracted	-			[NT]	28	04/12/2023	04/12/2023		[NT]	04/12/2023
Date analysed	-			[NT]	28	05/12/2023	05/12/2023		[NT]	08/12/2023
Naphthalene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	93
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	84
Fluorene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	87
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	81
Anthracene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	82
Pyrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	80
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	83
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	85
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	28	100	90	11	[NT]	84

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	29	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	29	08/12/2023	08/12/2023		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Surrogate <i>p</i> -Terphenyl-d14	%		Org-022/025	[NT]	29	86	86	0	[NT]	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	39	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	39	08/12/2023	08/12/2023		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Surrogate <i>p</i> -Terphenyl-d14	%		Org-022/025	[NT]	39	77	87	12	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	48	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	48	08/12/2023	08/12/2023		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	48	63	64	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	60	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	60	08/12/2023	08/12/2023		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	60	86	71	19	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	339245-9
Date extracted	-			04/12/2023	8	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			05/12/2023	8	05/12/2023	05/12/2023		05/12/2023	05/12/2023
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	99	109
HCB	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	95	106
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	100	115
delta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	95	104
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	103	109
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	87	93
Dieldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	97	100
Endrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	80	88
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	89	93
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	109	114
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	91	8	85	95	11	107	106

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	339245-15
Date extracted	-			[NT]	14	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			[NT]	14	05/12/2023	05/12/2023		05/12/2023	05/12/2023
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	80	102
HCB	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	79	99
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	79	107
delta-BHC	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	81	101
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	95	115
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	81	99
Dieldrin	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	85	105
Endrin	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	77	86
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	76	89
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	87	106
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	14	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	14	102	98	4	82	106

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	339245-23
Date extracted	-			[NT]	22	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			[NT]	22	05/12/2023	05/12/2023		08/12/2023	05/12/2023
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	90	106
HCB	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	96	102
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	94	111
delta-BHC	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	78	105
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	98	112
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	96	95
Dieldrin	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	106	104
Endrin	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	124	86
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	88	92
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	96	100
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	22	77	63	20	94	83

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	339245-30
Date extracted	-			[NT]	28	04/12/2023	04/12/2023		[NT]	04/12/2023
Date analysed	-			[NT]	28	05/12/2023	05/12/2023		[NT]	08/12/2023
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	85
HCB	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	82
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	81
delta-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	81
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	78
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	83
Dieldrin	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	81
Endrin	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	81
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	92
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	97
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	28	87	71	20	[NT]	83

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	29	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	29	08/12/2023	08/12/2023		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	29	77	80	4	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	39	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	39	08/12/2023	08/12/2023		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	39	72	89	21	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	48	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	48	08/12/2023	08/12/2023		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	48	64	62	3	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	60	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	60	08/12/2023	08/12/2023		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	60	75	68	10	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	339245-9
Date extracted	-			04/12/2023	8	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			05/12/2023	8	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Aroclor 1016	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	78	85
Aroclor 1260	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	110	8	85	95	11	94	98

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	339245-15
Date extracted	-			[NT]	14	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			[NT]	14	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	74	82
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	14	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	14	102	98	4	79	94

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	339245-23
Date extracted	-			[NT]	22	04/12/2023	04/12/2023		04/12/2023	04/12/2023
Date analysed	-			[NT]	22	05/12/2023	05/12/2023		08/12/2023	05/12/2023
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	22	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	22	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	22	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	22	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	22	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	22	<2	<2	0	98	90
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	22	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	22	77	63	20	94	82

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	339245-30
Date extracted	-			[NT]	28	04/12/2023	04/12/2023		[NT]	04/12/2023
Date analysed	-			[NT]	28	05/12/2023	05/12/2023		[NT]	05/12/2023
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	79
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	28	87	71	20	[NT]	80

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	29	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	29	08/12/2023	08/12/2023		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	29	77	80	4	[NT]	[NT]

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	39	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	39	08/12/2023	08/12/2023		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	39	72	89	21	[NT]	[NT]

QUALITY CONTROL: PCBs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	48	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	48	08/12/2023	08/12/2023		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	48	64	62	3	[NT]	[NT]

QUALITY CONTROL: PCBs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	60	04/12/2023	04/12/2023		[NT]	[NT]
Date analysed	-			[NT]	60	08/12/2023	08/12/2023		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	60	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	60	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	60	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	60	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	60	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	60	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	60	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	60	75	68	10	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W6	339245-8
Date prepared	-			06/12/2023	8	06/12/2023	06/12/2023		06/12/2023	06/12/2023
Date analysed	-			06/12/2023	8	06/12/2023	06/12/2023		06/12/2023	06/12/2023
Aluminium-Total	µg/L	10	Metals-022	<10	8	1300	[NT]		115	#
Arsenic-Total	µg/L	1	Metals-022	<1	8	<1	[NT]		101	102
Chromium-Total	µg/L	1	Metals-022	<1	8	2	[NT]		105	108
Copper-Total	µg/L	1	Metals-022	<1	8	2	[NT]		99	101
Iron-Total	µg/L	10	Metals-022	<10	8	960	[NT]		113	#
Mercury-Total	µg/L	0.05	Metals-021	<0.05	8	<0.05	<0.05	0	91	[NT]
Lead-Total	µg/L	1	Metals-022	<1	8	1	[NT]		104	93
Selenium-Total	µg/L	1	Metals-022	<1	8	<1	[NT]		97	97
Zinc-Total	µg/L	1	Metals-022	<1	8	5	[NT]		104	103

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W7	339245-9
Date prepared	-			[NT]	11	06/12/2023	06/12/2023		06/12/2023	06/12/2023
Date analysed	-			[NT]	11	06/12/2023	06/12/2023		06/12/2023	06/12/2023
Aluminium-Total	µg/L	10	Metals-022	[NT]	11	190	190	0	116	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	11	1	1	0	100	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	11	<1	<1	0	109	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	11	<1	<1	0	102	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	11	380	390	3	113	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	11	<0.05	[NT]		99	91
Lead-Total	µg/L	1	Metals-022	[NT]	11	<1	<1	0	102	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	11	<1	<1	0	95	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	11	4	4	0	107	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W8	339245-29
Date prepared	-			[NT]	18	06/12/2023	06/12/2023		06/12/2023	06/12/2023
Date analysed	-			[NT]	18	06/12/2023	06/12/2023		06/12/2023	06/12/2023
Aluminium-Total	µg/L	10	Metals-022	[NT]	18	520	[NT]		117	#
Arsenic-Total	µg/L	1	Metals-022	[NT]	18	<1	[NT]		99	101
Chromium-Total	µg/L	1	Metals-022	[NT]	18	1	[NT]		111	122
Copper-Total	µg/L	1	Metals-022	[NT]	18	<1	[NT]		103	101
Iron-Total	µg/L	10	Metals-022	[NT]	18	530	[NT]		115	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	18	<0.05	<0.05	0	95	104
Lead-Total	µg/L	1	Metals-022	[NT]	18	<1	[NT]		105	82
Selenium-Total	µg/L	1	Metals-022	[NT]	18	<1	[NT]		94	87
Zinc-Total	µg/L	1	Metals-022	[NT]	18	3	[NT]		109	105

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	339245-49
Date prepared	-			[NT]	21	06/12/2023	06/12/2023		[NT]	06/12/2023
Date analysed	-			[NT]	21	06/12/2023	06/12/2023		[NT]	06/12/2023
Aluminium-Total	µg/L	10	Metals-022	[NT]	21	300	280	7	[NT]	#
Arsenic-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	[NT]	97
Chromium-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	[NT]	116
Copper-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	[NT]	101
Iron-Total	µg/L	10	Metals-022	[NT]	21	470	430	9	[NT]	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	21	<0.05	[NT]		[NT]	104
Lead-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	[NT]	85
Selenium-Total	µg/L	1	Metals-022	[NT]	21	<1	<1	0	[NT]	87
Zinc-Total	µg/L	1	Metals-022	[NT]	21	6	5	18	[NT]	115

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	28	06/12/2023	06/12/2023		[NT]	[NT]
Date analysed	-			[NT]	28	06/12/2023	06/12/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	28	270	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	28	<1	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	28	<1	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	28	<1	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	28	400	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	28	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	28	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	28	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	28	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	31	06/12/2023	06/12/2023		[NT]	[NT]
Date analysed	-			[NT]	31	06/12/2023	06/12/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	31	180	200	11	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	31	1	1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	31	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	31	<1	<1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	31	300	320	6	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	31	<0.05	[NT]		[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	31	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	31	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	31	6	7	15	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	38	06/12/2023	06/12/2023		[NT]	[NT]
Date analysed	-			[NT]	38	06/12/2023	06/12/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	38	310	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	38	<1	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	38	<1	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	38	<1	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	38	370	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	38	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	38	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	38	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	38	3	[NT]		[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	40	06/12/2023	06/12/2023		[NT]	[NT]
Date analysed	-			[NT]	40	06/12/2023	06/12/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	40	230	230	0	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	40	<1	<1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	40	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	40	<1	<1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	40	360	360	0	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	40	<0.05	[NT]		[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	40	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	40	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	40	1	<1	0	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	48	06/12/2023	06/12/2023		[NT]	[NT]
Date analysed	-			[NT]	48	06/12/2023	06/12/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	48	1400	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	48	<1	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	48	2	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	48	2	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	48	920	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	48	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	48	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	48	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	48	4	[NT]		[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	06/12/2023	06/12/2023		[NT]	[NT]
Date analysed	-			[NT]	51	06/12/2023	06/12/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	51	2500	2700	8	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	51	<1	<1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	51	4	4	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	51	3	3	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	51	1500	1600	6	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	51	<0.05	[NT]		[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	51	2	2	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	51	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	51	7	5	33	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	55	06/12/2023	06/12/2023		[NT]	[NT]
Date analysed	-			[NT]	55	06/12/2023	06/12/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	55	1200	1300	8	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	55	<1	<1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	55	2	2	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	55	2	3	40	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	55	860	850	1	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	55	<0.05	[NT]		[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	55	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	55	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	55	6	6	0	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	58	06/12/2023	06/12/2023		[NT]	[NT]
Date analysed	-			[NT]	58	06/12/2023	06/12/2023		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	58	550	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	58	2	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	58	380	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	58	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	58	7	[NT]		[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	339245-2
Date prepared	-			05/12/2023	1	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Date analysed	-			05/12/2023	1	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.1	0.1	0	100	90

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	339245-22
Date prepared	-			[NT]	11	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Date analysed	-			[NT]	11	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	11	0.1	0.1	0	114	113

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	339245-41
Date prepared	-			[NT]	21	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Date analysed	-			[NT]	21	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	21	<0.05	<0.05	0	114	109

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	339245-56
Date prepared	-			[NT]	31	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Date analysed	-			[NT]	31	05/12/2023	05/12/2023		05/12/2023	05/12/2023
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	31	0.05	0.05	0	106	104

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	40	05/12/2023	05/12/2023		[NT]	[NT]
Date analysed	-			[NT]	40	05/12/2023	05/12/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	40	<0.05	<0.05	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	05/12/2023	05/12/2023		[NT]	[NT]
Date analysed	-			[NT]	51	05/12/2023	05/12/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	51	<0.05	<0.05	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	55	05/12/2023	05/12/2023		[NT]	[NT]
Date analysed	-			[NT]	55	05/12/2023	05/12/2023		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	55	<0.05	<0.05	0	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	339245-2
Date prepared	-			01/12/2023	1	01/12/2023	01/12/2023		01/12/2023	01/12/2023
Date analysed	-			01/12/2023	1	01/12/2023	01/12/2023		01/12/2023	01/12/2023
Total Suspended Solids	mg/L	5	Inorg-019	<5	11	12	[NT]		94	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	1	0.1	0.1	0	84	81
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	1	<0.005	<0.005	0	109	111
Chlorophyll a	mg/m ³	1	INORG-119	<1	11	2	[NT]		108	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	339245-22
Date prepared	-			[NT]	11	01/12/2023	01/12/2023		01/12/2023	01/12/2023
Date analysed	-			[NT]	11	01/12/2023	01/12/2023		01/12/2023	01/12/2023
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	21	8	6	29	97	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.7	0.7	0	86	81
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	0.070	0.073	4	106	111
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	21	1	[NT]		113	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	339245-42
Date prepared	-			[NT]	21	01/12/2023	01/12/2023		01/12/2023	01/12/2023
Date analysed	-			[NT]	21	01/12/2023	01/12/2023		01/12/2023	01/12/2023
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	27	11	9	20	96	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	21	0.3	0.3	0	86	84
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	21	0.02	0.02	0	106	102
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	27	<1	[NT]		100	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	27	01/12/2023	01/12/2023		[NT]	[NT]
Date analysed	-			[NT]	27	01/12/2023	01/12/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	27	0.3	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	27	0.02	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	28	9	10	11	[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	28	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	28	01/12/2023	01/12/2023		[NT]	[NT]
Date analysed	-			[NT]	28	01/12/2023	01/12/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	28	0.3	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	28	0.02	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	31	8	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	31	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	31	01/12/2023	01/12/2023		[NT]	[NT]
Date analysed	-			[NT]	31	01/12/2023	01/12/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	31	0.3	0.3	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	31	0.02	0.03	40	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	41	10	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	41	2	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	01/12/2023	01/12/2023		[NT]	[NT]
Date analysed	-			[NT]	41	01/12/2023	01/12/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	41	0.4	0.4	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	41	0.02	0.02	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	47	<5	<5	0	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	47	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	47	01/12/2023	01/12/2023		[NT]	[NT]
Date analysed	-			[NT]	47	01/12/2023	01/12/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	47	1	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	47	<0.005	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	50	21	20	5	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	50	1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	50	01/12/2023	01/12/2023		[NT]	[NT]
Date analysed	-			[NT]	50	01/12/2023	01/12/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	50	0.9	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	50	<0.005	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	51	28	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	51	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	01/12/2023	01/12/2023		[NT]	[NT]
Date analysed	-			[NT]	51	01/12/2023	01/12/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	51	0.9	0.8	12	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	60	8	10	22	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	60	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	60	01/12/2023	01/12/2023		[NT]	[NT]
Date analysed	-			[NT]	60	01/12/2023	01/12/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	60	1	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	60	<0.005	[NT]		[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Microbiology analysed by Sonic Food & Water Testing. Report No. W2328389-395

NBO: The presence of competing background organisms in the sample may have reduced the count.

The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

vTRH in Water (C6-C9) NEPM - The PQL has been raised as samples 339245-8,10,17,18,45-60 were foamy and therefore required a dilution.

All metals in water - total - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Appendix AC – Event 14 Data

Table 116: In situ water quality data and statistical summary for Crookhaven surface waters during Event 14.

[illegible]

Table 118: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 14.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW101	SW101	18 Dec 2023	<10	83	250	<100	340			0.017	<0.2	15	1.6	0.99	13	0.31	0.002	0.001	0.002	4.4
3365/SW102	SW102	18 Dec 2023	<10	<50	<100	<100	<50	<10	<10	0.074	<0.2	1.3	0.2	<0.005	24	0.41	<0.001	<0.001	0.002	0.25
3365/SW103	SW103	18 Dec 2023	<10	250	<100	<100	250	820	820	0.005	<0.2	1.7	<0.05	<0.005	36	0.74	<0.001	0.002	0.005	0.94

Statistics																			
Number of Results			3	3	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	2	1	0	2	1	1	3	0	3	2	1	3	3	1	2	3
Minimum Concentration			<10	<50	<100	<100	<50	<10	<10	0.005	<0.2	1.3	<0.05	<0.005	13	0.31	<0.001	0.001	0.002
Maximum Concentration			<10	250	250	<100	340	820	820	0.074	<0.2	15	1.6	0.99	36	0.74	0.002	0.002	0.005
Average Concentration *			5	119	117	50	205	412	412	0.032	0.1	6	0.61	0.33	24	0.49	0.001	0.0012	0.003
Median Concentration *			5	83	50	50	250	412.5	412.5	0.017	0.1	1.7	0.2	0.0025	24	0.41	0.0005	0.001	0.002

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																			
3365/SW101	SW101	18 Dec 2023	<0.001	<0.00005	<0.001	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW102	SW102	18 Dec 2023	<0.001	<0.00005	<0.001	0.021	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW103	SW103	18 Dec 2023	<0.001	<0.00005	<0.001	0.019	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.001	<0.00005	<0.001	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			<0.001	<0.00005	<0.001	0.021	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.0005	0.000025	0.0005	0.017	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.0005	0.000025	0.0005	0.019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH														
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Field ID	Location Code	Date																			
3365/SW101	SW101	18 Dec 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW102	SW102	18 Dec 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW103	SW103	18 Dec 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs								TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50	

Field ID	Location Code	Date	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	60	240	<100	300
3365/SW101	SW101	18 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW102	SW102	18 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	300	<100	300
3365/SW103	SW103	18 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	300	<100	300

Statistics																
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	0	1	2	0	2
Minimum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	60	300	<100	300
Average Concentration *			0.00025	0.00005	1	1	1	1	1	1	1	5	37	197	50	208
Median Concentration *			0.00025	0.00005	1	1	1	1	1	1	1	5	25	240	50	300

* A Non Detect Multiplier of 0.5 has been applied.

Table 119: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event 14.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW205	SW205	18 Dec 2023	<10	<50	<100	<100	<50	<10	<10	0.004	<0.2	0.3	<0.05	<0.005	15	0.17	0.003	<0.001	<0.001	0.31
3365/SW207	SW207	18 Dec 2023	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.2	<0.05	<0.005	14	0.2	0.002	<0.001	<0.001	0.36
3365/SW210	SW210	18 Dec 2023	<10	56	<100	<100	60	<10	<10	0.005	<0.2	0.2	<0.05	<0.005	22	0.37	0.003	0.001	0.001	0.77
3365/SW211	SW211	18 Dec 2023	<10	85	<100	<100	80			0.005	<0.2	0.3	<0.05	<0.005	28	0.41	0.003	0.002	0.002	0.8

Statistics																			
Number of Results	4	4	4	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	2	0	0	2	0	0	4	0	4	0	0	4	4	4	2	2	4	4
Minimum Concentration	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.2	<0.05	<0.005	14	0.17	0.002	0.001	0.001	0.31	
Maximum Concentration	<10	85	<100	<100	80	<10	<10	0.005	<0.2	0.3	<0.05	<0.005	28	0.41	0.003	0.002	0.002	0.8	
Average Concentration *	5	48	50	50	48	5	5	0.004	0.1	0.25	0.025	0.0025	20	0.29	0.0028	0.001	0.001	0.56	
Median Concentration *	5	40.5	50	50	42.5	5	5	0.0045	0.1	0.25	0.025	0.0025	18.5	0.285	0.003	0.00075	0.00075	0.565	

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																			
3365/SW205	SW205	18 Dec 2023	<0.001	<0.00005	0.002	0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW207	SW207	18 Dec 2023	<0.001	<0.00005	0.004	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW210	SW210	18 Dec 2023	<0.001	<0.00005	0.005	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW211	SW211	18 Dec 2023	<0.001	<0.00005	0.005	0.014	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects			0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.001	<0.00005	0.002	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			<0.001	<0.00005	0.005	0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.0005	0.000025	0.004	0.014	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.0005	0.000025	0.0045	0.012	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH															
	γ-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3365/SW205	SW205	18 Dec 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW207	SW207	18 Dec 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW210	SW210	18 Dec 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW211	SW211	18 Dec 2023	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs								TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50	

Field ID	Location Code	Date													
3365/SW205	SW205	18 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW207	SW207	18 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW210	SW210	18 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW211	SW211	18 Dec 2023	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	120	<100	120

Statistics															
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	120	<100	120
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	5	25	68	50	49
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	5	25	50	50	25

* A Non Detect Multiplier of 0.5 has been applied.

Table 120: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 14.

	Biological	Inorganics		
	Faecal Coliforms	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	mg/L	mg/L	mg/L
EQL	1	0.1	0.05	0.005

Field ID	Location Code	Date				
3365/GW201	GW201	18 Dec 2023	<10	0.2	0.4	<0.005
3365/GW202	GW202	18 Dec 2023		0.4	0.2	0.14
3365/GW203	GW203	18 Dec 2023		0.1	0.1	0.01
3365/GW204	GW204	18 Dec 2023		0.9	0.4	0.008
3365/GW205	GW205	18 Dec 2023		0.4	0.08	<0.005
3365/GW206	GW206	18 Dec 2023		0.1	0.1	0.065
3365/GW207	GW207	18 Dec 2023	<100	0.3	<0.05	<0.005

Statistics					
Number of Results	2	7	7	7	
Number of Detects	0	7	6	4	
Minimum Concentration	<10	0.1	<0.05	<0.005	
Maximum Concentration	<100	0.9	0.4	0.14	
Average Concentration *	28	0.34	0.19	0.033	
Median Concentration *	27.5	0.3	0.1	0.008	

* A Non Detect Multiplier of 0.5 has been applied.

Appendix AD – Event 14 Documents

Multi Parameter Water Meter

Instrument **YSI Pro DSS**
Serial No. **21K104037**



Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
	Recharge OK?	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH/ORP	✓	
	2. Turbidity	✓	
	3. Conductivity	✓	
	4. D.O	✓	
	5. Temp	✓	
	6. Depth	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. E.C		2760 uS/cm		406852	2763 uS/cm
2. Temp		22.8 °C		Instrument temp	23.5 °C
3. pH 4		pH 4.00		414101	pH 3.98
4. pH 7		pH 7.00		406263	pH 7.02
5. DO		0.0%		407802	-0.5%
6. Turbidity		100 NTU		413840	99.96 NTU
7. ORP		232.3 mV		A405006/B398193	232.4 mV

Calibrated by: Sara Angelini

Calibration date: **14/12/2023**

Next calibration due: **13/01/2024**

SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0												
Name	P1203365 – Water Sampling, West Culburra, NSW											
Martens Contact Officer	Trystan Richards						Contact Email	trichards@martens.com.au				
Sampling and Shipping	Sample Date	18 to 19.12.2023		Dispatch Date	19.12.2023		Turnaround Time			Standard		
	Our Reference	P1203365COC35V01				Shipping Method (X)	Hand	X	Post		Courier	
	On Ice (X)	X	No Ice (X)		Other (X)							
Laboratory												
Name	Envirolab Services P/L											
Sample Delivery Address	12 Ashley St, Chatswood											
Delivery Contact	Name	Sample Receipt		Phone	02 9910 6200		Fax		Email	samplereceipt@envirolabservices.com.au		
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address			trichards@martens.com.au, bmonaghan@martens.com.au and CC_ANorris@martens.com.au		

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
1 3365/GW201						X	
2 3365/GW202						X	
3 3365/GW203						X	
4 3365/GW205						X	
5 3365/GW204						X	
6 3365/GW206						X	
7 3365/GW207						X	
8 3365/SW101	X	X	X	X			
9 3355/SW102	X	X	X	X			

Envirolab Services
12 Ashley St
Chatswood NSW 1590
Ph: (02) 9910 6200

ENVIROLAB
Job No: 340709

Date Received: 19/12/23
Time Received: 18:30
Received By: JN
Temp: Cool Ambient 4°C
Cooling: Ice/Freepack
Security: Intact/Not Broken

Head Office
Suite 201, 20 George Street
Hornsby NSW 2077, Australia
Ph 02 9476 9999 Fax 02 9476 8767

> mail@martens.com.au
> www.martens.com.au
MARTENS & ASSOCIATES P/L
ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Collforms, E. Coll,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Collforms, TN, orthophosphate, TP	
10 3355/SW103	x	x	x	x			
11 3365/SW205	x	x	x	x			
12 3365/SW207	x	x	x	x			
13 3365/SW210	x	x	x	x			
14 3365/SW211	x	x	x	x			
15 3365/GWDUP01					x		
16 3365/DUP01	x						
17 3365/DUP02	x						
	x						

340709
19/12/23, JN

CERTIFICATE OF ANALYSIS 340709

Client Details

Client	Martens & Associates Pty Ltd
Attention	Trystan Richards
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	17 Water
Date samples received	19/12/2023
Date completed instructions received	21/12/2023

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	05/01/2024
Date of Issue	05/01/2024
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Liam Timmins, Organics Supervisor
 Loren Bardwell, Development Chemist
 Nick Sarlamis, Assistant Operation Manager
 Stuart Chen, Asbestos Approved Identify/Reporting coordinator
 Tim Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH in Water (C6-C9) NEPM

Our Reference		340709-8	340709-9	340709-10	340709-11	340709-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	28/12/2023	03/01/2024	03/01/2024	03/01/2024	28/12/2023
Date analysed	-	29/12/2023	04/01/2024	04/01/2024	04/01/2024	29/12/2023
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	130	100	99	96	130
Surrogate Toluene-d8	%	132	98	98	95	135
Surrogate 4-Bromofluorobenzene	%	87	102	102	111	95

vTRH in Water (C6-C9) NEPM

Our Reference		340709-13	340709-14
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water
Date extracted	-	28/12/2023	28/12/2023
Date analysed	-	29/12/2023	29/12/2023
TRH C ₆ - C ₉	µg/L	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10
Surrogate Dibromofluoromethane	%	133	133
Surrogate Toluene-d8	%	136	135
Surrogate 4-Bromofluorobenzene	%	96	98

svTRH (C10-C40) in Water

Our Reference		340709-8	340709-9	340709-10	340709-11	340709-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	02/01/2024	02/01/2024	02/01/2024	02/01/2024	02/01/2024
Date analysed	-	03/01/2024	03/01/2024	02/01/2024	02/01/2024	02/01/2024
TRH C ₁₀ - C ₁₄	µg/L	60	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	240	<100	300	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	300	<50	300	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	83	<50	250	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	250	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	340	<50	250	<50	<50
Surrogate o-Terphenyl	%	82	80	79	80	100

svTRH (C10-C40) in Water

Our Reference		340709-13	340709-14
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water
Date extracted	-	02/01/2024	02/01/2024
Date analysed	-	02/01/2024	02/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	120
TRH C ₂₉ - C ₃₆	µg/L	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	120
TRH >C ₁₀ - C ₁₆	µg/L	56	85
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100
Total +ve TRH (>C10-C40)	µg/L	60	80
Surrogate o-Terphenyl	%	92	88

PAHs in Water						
Our Reference		340709-8	340709-9	340709-10	340709-11	340709-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	02/01/2024	02/01/2024	02/01/2024	02/01/2024	02/01/2024
Date analysed	-	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	93	111	92	100	113

PAHs in Water			
Our Reference		340709-13	340709-14
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water
Date extracted	-	02/01/2024	02/01/2024
Date analysed	-	03/01/2024	03/01/2024
Naphthalene	µg/L	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	106	77

Organochlorine Pesticides in Water						
Our Reference	UNITS	340709-8	340709-9	340709-10	340709-11	340709-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	02/01/2024	02/01/2024	02/01/2024	02/01/2024	02/01/2024
Date analysed	-	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	85	94	85	93	97

Organochlorine Pesticides in Water			
Our Reference		340709-13	340709-14
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water
Date extracted	-	02/01/2024	02/01/2024
Date analysed	-	03/01/2024	03/01/2024
alpha-BHC	µg/L	<0.2	<0.2
HCB	µg/L	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	89	72

PCBs in Water						
Our Reference	UNITS	340709-8	340709-9	340709-10	340709-11	340709-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	02/01/2024	02/01/2024	02/01/2024	02/01/2024	02/01/2024
Date analysed	-	03/01/2024	03/01/2024	03/01/2024	03/01/2024	03/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	87	96	88	98	103

PCBs in Water			
Our Reference	UNITS	340709-13	340709-14
Your Reference		3365/SW210	3365/SW211
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water
Date extracted	-	02/01/2024	02/01/2024
Date analysed	-	03/01/2024	03/01/2024
Aroclor 1016	µg/L	<2	<2
Aroclor 1221	µg/L	<2	<2
Aroclor 1232	µg/L	<2	<2
Aroclor 1242	µg/L	<2	<2
Aroclor 1248	µg/L	<2	<2
Aroclor 1254	µg/L	<2	<2
Aroclor 1260	µg/L	<2	<2
Surrogate 2-Fluorobiphenyl	%	93	77

All metals in water - total						
Our Reference	UNITS	340709-8	340709-9	340709-10	340709-11	340709-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	27/12/2023	27/12/2023	27/12/2023	27/12/2023	27/12/2023
Aluminium-Total	µg/L	310	410	740	170	200
Arsenic-Total	µg/L	2	<1	<1	3	2
Chromium-Total	µg/L	1	<1	2	<1	<1
Copper-Total	µg/L	2	2	5	<1	<1
Iron-Total	µg/L	4,400	250	940	310	360
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	2	4
Zinc-Total	µg/L	10	21	19	20	10

All metals in water - total					
Our Reference	UNITS	340709-13	340709-14	340709-16	340709-17
Your Reference		3365/SW210	3365/SW211	3365/DUP01	3365/DUP02
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	27/12/2023	27/12/2023	27/12/2023	27/12/2023
Aluminium-Total	µg/L	370	410	330	440
Arsenic-Total	µg/L	3	3	2	3
Chromium-Total	µg/L	1	2	1	1
Copper-Total	µg/L	1	2	3	2
Iron-Total	µg/L	770	800	3,800	860
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1
Selenium-Total	µg/L	5	5	2	4
Zinc-Total	µg/L	10	14	14	16

Metals in Waters - Acid extractable

Our Reference		340709-1	340709-2	340709-3	340709-4	340709-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW205	3365/GW204
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	27/12/2023	27/12/2023	27/12/2023	27/12/2023	27/12/2023
Phosphorus - Total	mg/L	0.4	0.2	0.1	0.08	0.4

Metals in Waters - Acid extractable

Our Reference		340709-6	340709-7	340709-8	340709-9	340709-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	27/12/2023	27/12/2023	27/12/2023	27/12/2023	27/12/2023
Phosphorus - Total	mg/L	0.1	<0.05	1.6	0.2	<0.05

Metals in Waters - Acid extractable

Our Reference		340709-11	340709-12	340709-13	340709-14
Your Reference	UNITS	3365/SW205	3365/SW207	3365/SW210	3365/SW211
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	27/12/2023	27/12/2023	27/12/2023	27/12/2023
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05

Miscellaneous Inorganics

Our Reference		340709-1	340709-2	340709-3	340709-4	340709-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW205	3365/GW204
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Total Nitrogen in water	mg/L	0.2	0.4	0.1	0.4	0.9
Phosphate as P in water	mg/L	<0.005	0.14	0.01	<0.005	0.008

Miscellaneous Inorganics

Our Reference		340709-6	340709-7	340709-8	340709-9	340709-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Total Suspended Solids	mg/L	[NA]	[NA]	13	24	36
Total Nitrogen in water	mg/L	0.1	0.3	15	1.3	1.7
Phosphate as P in water	mg/L	0.065	<0.005	0.99	<0.005	<0.005
Chlorophyll a	mg/m ³	[NA]	[NA]	17	74	5

Miscellaneous Inorganics

Our Reference		340709-11	340709-12	340709-13	340709-14	340709-15
Your Reference	UNITS	3365/SW205	3365/SW207	3365/SW210	3365/SW211	3365/GWDUP01
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Total Suspended Solids	mg/L	15	14	22	28	[NA]
Total Nitrogen in water	mg/L	0.3	0.2	0.2	0.3	[NA]
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	[NA]
Chlorophyll a	mg/m ³	4	2	5	5	[NA]
pH	pH Units	[NA]	[NA]	[NA]	[NA]	6.2
Electrical Conductivity	µS/cm	[NA]	[NA]	[NA]	[NA]	2,900

Microbiological Testing						
Our Reference		340709-1	340709-2	340709-3	340709-4	340709-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW205	3365/GW204
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
Faecal Coliforms	cfu/100mL	<10	>100, <1000	<1000 NBO	**	<1000 NBO

Microbiological Testing						
Our Reference		340709-6	340709-7	340709-8	340709-9	340709-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023	22/12/2023
E. coli	cfu/100mL	[NA]	[NA]	<1000 NBO	<10	820
Faecal Coliforms	cfu/100mL	<1000 NBO	<100	<1000 NBO	<10	820

Microbiological Testing					
Our Reference		340709-11	340709-12	340709-13	340709-14
Your Reference	UNITS	3365/SW205	3365/SW207	3365/SW210	3365/SW211
Date Sampled		18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023	18/12/2023 - 19/12/2023
Type of sample		Water	Water	Water	Water
Date of testing	-	22/12/2023	22/12/2023	22/12/2023	22/12/2023
E. coli	cfu/100mL	<10	<10	<10	>10, <100
Faecal Coliforms	cfu/100mL	<10	<10	<10	>10, <100

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determined stoichiometrically from the base metal concentration.
Org-020	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-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			28/12/2023	[NT]	[NT]	[NT]	[NT]	28/12/2023	[NT]
Date analysed	-			29/12/2023	[NT]	[NT]	[NT]	[NT]	29/12/2023	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	106	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	106	[NT]
Surrogate Dibromofluoromethane	%		Org-023	128	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate Toluene-d8	%		Org-023	135	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	96	[NT]	[NT]	[NT]	[NT]	95	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	340709-9
Date extracted	-			02/01/2024	8	02/01/2024	02/01/2024		02/01/2024	02/01/2024
Date analysed	-			02/01/2024	8	03/01/2024	03/01/2024		02/01/2024	02/01/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	8	60	64	6	74	111
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	8	240	240	0	81	116
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	8	<100	<100	0	86	121
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	8	83	85	2	74	111
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	8	250	270	8	81	116
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	8	<100	<100	0	86	121
Surrogate o-Terphenyl	%		Org-020	83	8	82	80	2	89	79

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	340709-9
Date extracted	-			02/01/2024	8	02/01/2024	02/01/2024		02/01/2024	02/01/2024
Date analysed	-			03/01/2024	8	03/01/2024	03/01/2024		03/01/2024	03/01/2024
Naphthalene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	88	121
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	83	102
Fluorene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	86	108
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	90	108
Anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	88	101
Pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	88	102
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	90	92
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	97	112
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	96	8	93	94	1	91	100

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/01/2024	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	03/01/2024	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	114	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	91	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	104	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	97	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	86	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	86	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	83	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	81	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	340709-9
Date extracted	-			02/01/2024	8	02/01/2024	02/01/2024		02/01/2024	02/01/2024
Date analysed	-			03/01/2024	8	03/01/2024	03/01/2024		03/01/2024	03/01/2024
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	83	99
HCB	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	85	106
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	78	100
delta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	82	95
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	87	102
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	90	102
Dieldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	90	99
Endrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	95	104
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	93	106
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	80	98
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	88	8	85	85	0	84	98

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/01/2024	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	03/01/2024	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	97	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	78	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	73	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	83	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	81	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	84	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	94	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	86	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	88	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	92	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	340709-9
Date extracted	-			02/01/2024	8	02/01/2024	02/01/2024		02/01/2024	02/01/2024
Date analysed	-			03/01/2024	8	03/01/2024	03/01/2024		03/01/2024	03/01/2024
Aroclor 1016	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	81	95
Aroclor 1260	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	85	8	87	86	1	81	100

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/01/2024	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	03/01/2024	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	[NT]	[NT]	[NT]	[NT]	76	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	[NT]	[NT]	[NT]	[NT]	90	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	340709-12
Date prepared	-			22/12/2023	8	22/12/2023	22/12/2023		22/12/2023	22/12/2023
Date analysed	-			27/12/2023	8	27/12/2023	27/12/2023		27/12/2023	27/12/2023
Aluminium-Total	µg/L	10	Metals-022	<10	8	310	250	21	93	[NT]
Arsenic-Total	µg/L	1	Metals-022	<1	8	2	2	0	89	[NT]
Chromium-Total	µg/L	1	Metals-022	<1	8	1	1	0	82	[NT]
Copper-Total	µg/L	1	Metals-022	<1	8	2	2	0	88	[NT]
Iron-Total	µg/L	10	Metals-022	<10	8	4400	4000	10	91	[NT]
Mercury-Total	µg/L	0.05	Metals-021	<0.05	8	<0.05	<0.05	0	103	108
Lead-Total	µg/L	1	Metals-022	<1	8	<1	<1	0	83	[NT]
Selenium-Total	µg/L	1	Metals-022	<1	8	<1	<1	0	90	[NT]
Zinc-Total	µg/L	1	Metals-022	<1	8	10	10	0	93	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			22/12/2023	8	22/12/2023	22/12/2023		22/12/2023	[NT]
Date analysed	-			27/12/2023	8	27/12/2023	27/12/2023		27/12/2023	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	8	1.6	1.6	0	107	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	340709-2
Date prepared	-			22/12/2023	1	22/12/2023	22/12/2023		22/12/2023	22/12/2023
Date analysed	-			22/12/2023	1	22/12/2023	22/12/2023		22/12/2023	22/12/2023
Total Suspended Solids	mg/L	5	Inorg-019	<5	8	13	[NT]		94	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	1	0.2	0.2	0	86	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	1	<0.005	<0.005	0	102	109
Chlorophyll a	mg/m ³	1	INORG-119	<1	8	17	[NT]		117	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	340709-7
Date prepared	-			[NT]	8	22/12/2023	[NT]		[NT]	22/12/2023
Date analysed	-			[NT]	8	22/12/2023	[NT]		[NT]	22/12/2023
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	8	15	[NT]		[NT]	85
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	8	0.99	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	11	15	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	11	4	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	22/12/2023	22/12/2023		[NT]	[NT]
Date analysed	-			[NT]	11	22/12/2023	22/12/2023		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.3	0.2	40	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	<0.005	<0.005	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Microbiology analysed by Sonic Food & Water Testing. Report no. W2330593, W2330594, W2330596

NBO: The presence of competing background organisms in the sample may have reduced the count.

The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised.

** = A result cannot be obtained as a most probable number has been obtained that is not included in the table, as per the standard.

Appendix AE – Event 15 Data

Table 122: In situ water quality data and statistical summary for Crookhaven surface waters during Event 15.

PROJECT INFORMATION												
PROJECT NUMBER:		P1203365		DATE:		23/01/2024						
CLIENT:		Sealark Pty Ltd		SAMPLED BY:		BTM & TR						
SITE LOCATION:		West Culburra										
IN SITU WATER QUALITY PARAMETERS												
Date	Bore / Location ID	Sample Type (S, D or T)	Time	Depth to Water (TOC)	Temp (°C)	pH	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%Sat)	EC µS/cm	Salinity (ppt)	Turbidity (ntu)
23/01/2024	SW201	S (Dry)			22.80	7.75	142.80	5.88	76.90	31601.00	20.66	12.59
23/01/2024	SW201	D (Dry)			22.80	7.75	143.00	5.75	75.30	31676.00	20.71	12.60
23/01/2024	SW202	S (Dry)			22.40	7.82	141.00	6.45	84.40	33168.00	21.96	376.31
23/01/2024	SW202	D (Dry)			22.40	7.83	142.80	5.96	78.40	34034.00	22.60	14.31
23/01/2024	SW203	S (Dry)			22.30	7.67	134.20	5.69	74.20	32552.00	21.57	14.90
23/01/2024	SW203	D (Dry)			22.30	7.88	141.30	5.51	74.00	39468.00	26.74	14.23
23/01/2024	SW204	S (Dry)			20.60	7.35	139.40	5.72	71.50	31702.00	19.79	83.68
23/01/2024	SW204	D (Dry)			20.60	7.26	142.00	5.11	63.50	31623.00	19.74	19.08
23/01/2024	SW205	S (Dry)			21.70	7.86	141.00	6.63	88.20	39325.00	27.00	7.83
23/01/2024	SW205	D (Dry)			21.70	7.86	141.20	6.46	85.90	39393.00	27.04	8.49
23/01/2024	SW206	S (Dry)			21.60	7.79	142.50	6.54	86.00	36987.00	25.25	8.55
23/01/2024	SW206	D (Dry)			21.70	7.81	143.00	6.21	83.90	43075.00	24.87	8.81
23/01/2024	SW207	S (Dry)			21.90	7.40	138.10	7.14	92.30	32228.00	21.54	13.51
23/01/2024	SW207	D (Dry)			21.90	8.01	146.10	6.54	89.70	45775.00	31.84	12.48
23/01/2024	SW208	S (Dry)			21.70	7.86	138.50	7.09	91.50	32536.00	21.90	13.03
23/01/2024	SW208	D (Dry)			21.60	8.02	147.00	6.51	89.30	46766.00	32.79	10.54
23/01/2024	SW209	S (Dry)			22.30	7.86	142.50	6.75	88.70	34426.00	22.96	17.35
23/01/2024	SW209	D (Dry)			22.00	7.91	145.30	6.43	86.40	40791.00	27.90	12.98
23/01/2024	SW210	S (Dry)			22.10	7.83	141.50	6.79	87.90	31732.00	21.08	15.04
23/01/2024	SW210	D (Dry)			22.10	7.84	142.20	6.56	85.90	34292.00	22.95	18.64
23/01/2024	SW211	S (Dry)			22.20	7.86	142.10	7.23	93.80	31532.00	20.86	12.85
23/01/2024	SW211	D (Dry)			22.30	7.86	142.40	6.99	90.80	31716.00	20.99	13.45
23/01/2024	SW212	S (Dry)			22.30	7.90	133.80	7.37	96.10	32594.00	21.63	12.05
23/01/2024	SW212	D (Dry)			22.30	7.91	143.30	6.66	88.90	38106.00	25.71	15.74
23/01/2024	SW213	S (Dry)			22.30	7.91	133.50	6.89	90.50	34355.00	22.92	15.42
23/01/2024	SW213	D (Dry)			22.30	7.91	134.60	6.72	88.60	35247.00	23.58	16.97
23/01/2024	SW214	S (Dry)			21.90	7.83	135.30	6.91	88.80	30763.00	20.47	17.64
23/01/2024	SW214	D (Dry)			21.90	7.82	135.90	6.68	86.00	30824.00	20.49	20.75
23/01/2024	SW215	S (Dry)			21.50	8.02	145.70	7.15	98.40	47275.00	33.27	6.45
23/01/2024	SW215	D (Dry)			21.50	8.02	145.90	6.97	96.20	48125.00	33.96	6.59
23/01/2024	SW216	S (Dry)			21.20	8.07	174.60	7.47	103.90	50361.00	35.95	2.95
23/01/2024	SW216	D (Dry)			21.30	8.05	172.80	7.46	103.70	50370.00	35.93	3.65
23/01/2024	SW217	S (Dry)			21.20	8.06	146.10	7.34	102.10	50336.00	35.92	3.85
23/01/2024	SW217	D (Dry)			21.30	8.06	145.20	7.31	101.60	50373.00	35.95	4.16
EVENT STATISTICAL SUMMARY												
Number of results					34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
Maximum Value					22.80	8.07	174.60	7.47	103.90	50373.00	35.95	376.31
Mean Value					21.88	7.84	143.14	6.61	87.74	37797.85	25.54	24.93
Median Value					21.90	7.86	142.30	6.67	88.65	34390.50	22.96	13.01
Minimum Value					20.60	7.26	133.50	5.11	63.50	30763.00	19.74	2.95

Table 125: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 15.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW101	SW101	22 Jan 2024	<10	360	270	<100	630	100	100	0.019	<0.2	8.6	0.4	0.20	10	0.58	0.001	0.002	0.005	2.2
3365/SW102	SW102	22 Jan 2024	<10	170	<100	<100	170			0.056	<0.2	1.3	0.2	<0.005	30	0.61	<0.001	<0.001	0.003	0.28
3365/SW103	SW103	22 Jan 2024	<10	980	260	<100	1,200	<1,000.0	<1,000.0	<0.001	<0.2	2.2	0.1	<0.005	680	2.1	0.001	0.002	0.007	2.7

Statistics																			
Number of Results			3	3	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	3	2	0	3	1	1	2	0	3	3	1	3	3	2	2	3
Minimum Concentration			<10	170	<100	<100	170	100	100	<0.001	<0.2	1.3	0.1	<0.005	10	0.58	0.001	<0.001	0.003
Maximum Concentration			<10	980	270	<100	1,200	<1,000	<1,000	0.056	<0.2	8.6	0.4	0.2	680	2.1	0.001	0.002	0.007
Average Concentration *			5	503	193	50	667	300	300	0.025	0.1	4	0.23	0.068	240	1.1	0.00083	0.0015	0.005
Median Concentration *			5	360	260	50	630	300	300	0.019	0.1	2.2	0.2	0.0025	30	0.61	0.001	0.002	0.005

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																			
3365/SW101	SW101	22 Jan 2024	<0.001	<0.00005	<0.001	0.014	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW102	SW102	22 Jan 2024	<0.001	<0.00005	<0.001	0.009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW103	SW103	22 Jan 2024	0.004	<0.00005	<0.001	0.052	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.001	<0.00005	<0.001	0.009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			0.004	<0.00005	<0.001	0.052	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.0017	0.000025	0.0005	0.025	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.0005	0.000025	0.0005	0.014	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH														
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Field ID	Location Code	Date																		
3365/SW101	SW101	22 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW102	SW102	22 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW103	SW103	22 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs								TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50	

Field ID	Location Code	Date	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	73	500	120	690
3365/SW101	SW101	22 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	200	<100	200
3365/SW102	SW102	22 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	120	1,100	<100	1,300
3365/SW103	SW103	22 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	120	1,100	<100	1,300

Statistics																
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	2	3	1	3	3
Minimum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	200	<100	200
Maximum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	120	1,100	120	1,300
Average Concentration *			0.00025	0.00005	1	1	1	1	1	1	1	5	73	600	73	730
Median Concentration *			0.00025	0.00005	1	1	1	1	1	1	1	5	73	500	50	690

* A Non Detect Multiplier of 0.5 has been applied.

Table 126: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event 15.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW201 W/1	SW201	23 Jan 2024	<10	<50	<100	<100	<50			0.001	<0.2	0.5	0.05	0.03	12	0.08	0.002	<0.001	0.002	0.19
3365/SW201 W/2	SW201	23 Jan 2024	<10	<50	<100	<100	<50	200	200	<0.001	<0.2	0.4	0.06	0.02	7	0.09	0.002	<0.001	0.002	0.23
3365/SW202 W/1	SW202	23 Jan 2024	<10	<50	<100	<100	<50	100	100	<0.001	<0.2	0.3	0.05	0.02	8	0.09	0.002	<0.001	<0.001	0.23
3365/SW202 W/2	SW202	23 Jan 2024	<10	<50	<100	<100	<50	200	200	0.002	<0.2	0.7	<0.05	0.02	6	0.14	0.002	<0.001	0.001	0.24
3365/SW203 W/1	SW203	23 Jan 2024	<10	<50	<100	<100	<50			0.002	<0.2	0.5	0.05	0.02	8	0.09	0.002	<0.001	<0.001	0.22
3365/SW203 W/2	SW203	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.5	0.05	0.02	5	0.11	0.002	<0.001	<0.001	0.25
3365/SW204 W/1	SW204	23 Jan 2024	<10	130	<100	<100	130	1,000.0	1,000.0	<0.001	<0.2	0.7	0.07	0.008	5	0.08	0.002	<0.001	<0.001	0.26
3365/SW204 W/2	SW204	23 Jan 2024	<10	230	<100	<100	230	1,000.0	1,000.0	<0.001	<0.2	0.8	0.1	0.007	8	0.24	0.002	<0.001	0.001	0.54
3365/SW205 W/1	SW205	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.5	0.05	0.02	8	0.03	0.002	<0.001	<0.001	0.11
3365/SW205 W/2	SW205	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.4	0.06	0.02	6	0.06	0.002	<0.001	<0.001	0.15
3365/SW206 W/1	SW206	23 Jan 2024	<10	<50	<100	<100	<50	100	100	<0.001	<0.2	0.3	0.05	0.01	7	0.08	0.002	<0.001	<0.001	0.15
3365/SW206 W/2	SW206	23 Jan 2024	<10	<50	<100	<100	<50	200	200	<0.001	<0.2	0.3	0.05	0.02	8	0.15	0.002	<0.001	<0.001	0.17
3365/SW207 W/1	SW207	23 Jan 2024	<10	<50	<100	<100	<50			0.002	<0.2	0.3	<0.05	0.02	5	0.1	0.002	<0.001	0.001	0.22
3365/SW207 W/2	SW207	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.01	<5	0.11	0.002	<0.001	<0.001	0.21
3365/SW208 W/1	SW208	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.6	<0.05	0.01	7	0.08	0.002	<0.001	0.008	0.17
3365/SW208 W/2	SW208	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.4	<0.05	0.01	<5	0.09	0.002	<0.001	<0.001	0.21
3365/SW209 W/1	SW209	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.01	6	0.11	0.002	<0.001	<0.001	0.26
3365/SW209 W/2	SW209	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.01	8	0.29	0.002	<0.001	<0.001	0.45
3365/SW210 W/1	SW210	23 Jan 2024	<10	<50	<100	<100	<50	100	100	<0.001	<0.2	0.3	0.06	0.01	7	0.09	0.002	<0.001	<0.001	0.22
3365/SW210 W/2	SW210	23 Jan 2024	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.4	0.05	0.01	<5	0.11	0.002	<0.001	0.001	0.24
3365/SW211 W/1	SW211	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.7	0.06	0.01	6	0.1	0.002	<0.001	<0.001	0.21
3365/SW211 W/2	SW211	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.4	<0.05	0.01	6	0.09	0.002	<0.001	0.032	0.22
3365/SW212 W/1	SW212	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.3	<0.05	0.01	<5	0.07	0.002	<0.001	0.001	0.15
3365/SW212 W/2	SW212	23 Jan 2024	<10	<50	<100	<100	<50	200	200	<0.001	<0.2	0.5	<0.05	0.01	6	0.08	0.002	<0.001	0.002	0.21
3365/SW213 W/1	SW213	23 Jan 2024	<10	<50	<100	<100	<50	100	100	<0.001	<0.2	0.3	0.06	0.01	8	0.11	0.002	<0.001	0.001	0.27
3365/SW213 W/2	SW213	23 Jan 2024	<10	<50	<100	<100	<50	260	260	0.001	<0.2	0.4	<0.05	0.01	8	0.12	0.002	<0.001	0.001	0.29
3365/SW214 W/1	SW214	23 Jan 2024	<10	<50	<100	<100	<50			0.001	<0.2	0.4	0.06	0.01	7	0.12	0.002	<0.001	0.001	0.29
3365/SW214 W/2	SW214	23 Jan 2024	<10	<50	<100	<100	<50			0.001	<0.2	0.5	0.05	0.01	8	0.13	0.002	<0.001	0.002	0.31
3365/SW215 W/1	SW215	23 Jan 2024	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.4	<0.05	0.01	8	0.04	0.002	<0.001	<0.001	0.1
3365/SW215 W/2	SW215	23 Jan 2024	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.2	<0.05	0.01	6	0.04	0.002	<0.001	<0.001	0.12
3365/SW216 W/1	SW216	23 Jan 2024	<10	<50	<100	<100	<50	100	100	<0.001	<0.2	0.2	<0.05	0.009	<5	0.02	0.002	<0.001	<0.001	0.03
3365/SW216 W/2	SW216	23 Jan 2024	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.2	<0.05	<0.005	<5	0.02	0.002	<0.001	<0.001	0.04
3365/SW217 W/1	SW217	23 Jan 2024	<10	<50	<100	<100	<50	100	100	<0.001	<0.2	0.2	<0.05	0.007	6	0.01	0.002	<0.001	<0.001	0.04
3365/SW217 W/2	SW217	23 Jan 2024	<10	<50	<100	<100	<50			<0.001	<0.2	0.2	0.05	0.007	<5	0.02	0.002	<0.001	<0.001	0.04

Statistics																			
Number of Results	34	34	34	34	34	17	17	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects	0	2	0	0	2	13	13	7	0	34	18	33	27	34	34	0	14	34	
Minimum Concentration	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.2	0.05	<0.005	5	0.01	0.002	<0.001	0.001	0.03	
Maximum Concentration	<10	230	<100	<100	230	1,000	1,000	0.002	<0.2	0.8	0.1	0.03	12	0.29	0.002	<0.001	0.032	0.54	
Average Concentration *	5	34	50	50	34	224	224	0.00069	0.1	0.4	0.042	0.013	6.1	0.094	0.002	0.0005	0.0019	0.21	
Median Concentration *	5	25	50	50	25	100	100	0.0005	0.1	0.4	0.05	0.01	6	0.09	0.002	0.0005	0.0005	0.215	

* A Non Detect Multiplier of 0.5 has been applied.

[illegible][illegible][illegible]

* A Non Detect Multiplier of 0.5 has been applied.

[illegible][illegible][illegible]

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date													
3365/SW201 W/1	SW201	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW201 W/2	SW201	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW202 W/1	SW202	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW202 W/2	SW202	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW203 W/1	SW203	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW203 W/2	SW203	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW204 W/1	SW204	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	120	<100	120
3365/SW204 W/2	SW204	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	230	<100	230
3365/SW205 W/1	SW205	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW205 W/2	SW205	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW206 W/1	SW206	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW206 W/2	SW206	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW207 W/1	SW207	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW207 W/2	SW207	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW208 W/1	SW208	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW208 W/2	SW208	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW209 W/1	SW209	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW209 W/2	SW209	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW210 W/1	SW210	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW210 W/2	SW210	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW211 W/1	SW211	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW211 W/2	SW211	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW212 W/1	SW212	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW212 W/2	SW212	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW213 W/1	SW213	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW213 W/2	SW213	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW214 W/1	SW214	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW214 W/2	SW214	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW215 W/1	SW215	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW215 W/2	SW215	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW216 W/1	SW216	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW216 W/2	SW216	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW217 W/1	SW217	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW217 W/2	SW217	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50

Statistics														
Number of Results	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<50
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	230	<100
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	5	25	57	50
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	5	25	50	25

* A Non Detect Multiplier of 0.5 has been applied.

Table 127: Laboratory water analysis and statistical summary for Lake Wollumbulla surface waters during Event 15.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																	
3365/SW301 W/1	SW301	22 Jan 2024	<10	130	<100	<100	130	1,700.0	1,700.0	0.002	<0.2	3.3	0.06	<0.005	64	1.1	0.001	0.002	0.004
3365/SW301 W/2	SW301	22 Jan 2024	<10	180	<100	<100	180	700	700	0.005	<0.2	2.5	0.07	<0.005	48	0.7	0.001	0.002	0.003
3365/SW302 W/1	SW302	22 Jan 2024	<10	80	<100	<100	80	14,000.0	14,000.0	0.003	<0.2	1.4	<0.05	<0.005	12	0.65	<0.001	0.002	0.004
3365/SW302 W/2	SW302	22 Jan 2024	<10	180	<100	<100	180	20,000.0	20,000.0	<0.001	<0.2	1.8	<0.05	<0.005	38	0.76	<0.001	0.002	0.003
3365/SW303 W/1	SW303	23 Jan 2024	<10	<50	<100	<100	<50	300	300	<0.001	<0.2	0.9	<0.05	<0.005	<5	0.03	0.002	<0.001	0.002
3365/SW303 W/2	SW303	23 Jan 2024	<10	<50	<100	<100	<50	200	200	<0.001	<0.2	0.8	<0.05	<0.005	<5	0.02	0.002	<0.001	0.002
3365/SW304 W/1	SW304	23 Jan 2024	<10	2,000	140	<100	2,100	1,100.0	1,100.0	0.035	<0.2	1.7	<0.05	<0.005	54	3.8	0.002	0.004	0.005
3365/SW304 W/2	SW304	23 Jan 2024	<10	1,000	<100	<100	1,000	600	600	<0.001	<0.2	1.3	<0.05	0.006	47	2.5	0.001	0.003	0.003
3365/SW305 W/1	SW305	23 Jan 2024	<10	150	<100	<100	150	5,000.0	5,000.0	0.021	<0.2	3.1	0.08	<0.005	66	0.41	0.002	0.001	0.002
3365/SW305 W/2	SW305	23 Jan 2024	<10	300	<100	<100	300	1,000.0	1,000.0	0.009	<0.2	1.6	<0.05	<0.005	13	0.23	0.002	<0.001	0.003
3365/SW306 W/1	SW306	23 Jan 2024	<10	180	<100	<100	180	400	400	<0.001	<0.2	0.8	<0.05	<0.005	<5	0.05	0.002	<0.001	0.001
3365/SW306 W/2	SW306	23 Jan 2024	<10	140	<100	<100	140	300	300	0.002	<0.2	0.8	<0.05	<0.005	16	0.13	0.002	<0.001	0.001
3365/SW307 W/1	SW307	23 Jan 2024	<10	2,600	<100	<100	2,600	<1,000.0	<1,000.0	0.013	<0.2	1.7	<0.05	<0.005	11	0.22	<0.001	<0.001	0.004
3365/SW307 W/2	SW307	23 Jan 2024	<10	850	<100	<100	850	<1,000.0	<1,000.0	0.03	<0.2	1.3	<0.05	<0.005	14	0.21	<0.001	<0.001	0.003
3365/SW308 W/1	SW308	23 Jan 2024	<10	270	<100	<100	270			0.003	<0.2	1.4	<0.05	<0.005	18	0.37	0.002	0.001	0.003
3365/SW308 W/2	SW308	23 Jan 2024	<10	93	120	<100	210			0.002	<0.2	1.5	<0.05	<0.005	<5	0.38	0.002	0.002	0.003

Statistics																			
Number of Results	16	16	16	16	16	14	14	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects	0	14	2	0	14	12	12	11	0	16	3	1	12	16	12	9	16	16	16
Minimum Concentration	<10	<50	<100	<100	<50	200	200	<0.001	<0.2	0.8	<0.05	<0.005	<5	0.02	0.001	0.001	0.001	0.001	0.14
Maximum Concentration	<10	2,600	140	<100	2,600	20,000	20,000	0.035	<0.2	3.3	0.08	0.006	66	3.8	0.002	0.004	0.005	8.3	8.3
Average Concentration *	5	513	60	50	526	3,307	3,307	0.008	0.1	1.6	0.033	0.0027	26	0.72	0.0014	0.0014	0.0029	2.3	2.3
Median Concentration *	5	180	50	50	180	650	650	0.0025	0.1	1.45	0.025	0.0025	15	0.375	0.002	0.001	0.003	1.65	1.65

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQI	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																		
3365/SW301 W/1	SW301	22 Jan 2024	0.002	<0.00005	<0.001	0.012	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW301 W/2	SW301	22 Jan 2024	0.001	<0.00005	<0.001	0.011	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW302 W/1	SW302	22 Jan 2024	<0.001	<0.00005	<0.001	0.013	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW302 W/2	SW302	22 Jan 2024	0.001	<0.00005	<0.001	0.002	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW303 W/1	SW303	23 Jan 2024	<0.001	<0.00005	<0.001	0.013	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW303 W/2	SW303	23 Jan 2024	<0.001	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW304 W/1	SW304	23 Jan 2024	0.003	<0.00005	<0.001	0.011	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW304 W/2	SW304	23 Jan 2024	0.003	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW305 W/1	SW305	23 Jan 2024	<0.001	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW305 W/2	SW305	23 Jan 2024	<0.001	<0.00005	<0.001	0.009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW306 W/1	SW306	23 Jan 2024	<0.001	<0.00005	<0.001	0.003	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW306 W/2	SW306	23 Jan 2024	<0.001	<0.00005	<0.001	0.002	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW307 W/1	SW307	23 Jan 2024	<0.001	<0.00005	<0.001	0.037	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW307 W/2	SW307	23 Jan 2024	<0.001	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW308 W/1	SW308	23 Jan 2024	<0.001	<0.00005	<0.001	0.006	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW308 W/2	SW308	23 Jan 2024	<0.001	<0.00005	<0.001	0.006	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results			16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects			5	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			0.001	<0.00005	<0.001	0.002	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			0.003	<0.00005	<0.001	0.037	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.00097	0.000025	0.0005	0.0093	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.0005	0.000025	0.0005	0.007	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

EQ					PAH														
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Field ID	Location Code	Date																		
3365/SW301 W/1	SW301	22 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW301 W/2	SW301	22 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW302 W/1	SW302	22 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW302 W/2	SW302	22 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW303 W/1	SW303	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW303 W/2	SW303	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW304 W/1	SW304	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW304 W/2	SW304	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW305 W/1	SW305	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW305 W/2	SW305	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW306 W/1	SW306	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW306 W/2	SW306	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW307 W/1	SW307	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW307 W/2	SW307	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW308 W/1	SW308	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW308 W/2	SW308	23 Jan 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results			16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzol(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date													
3365/SW301 W/1	SW301	22 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	160	<100	160
3365/SW301 W/2	SW301	22 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	190	<100	190
3365/SW302 W/1	SW302	22 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	120	<100	120
3365/SW302 W/2	SW302	22 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	200	<100	200
3365/SW303 W/1	SW303	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW303 W/2	SW303	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW304 W/1	SW304	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	2,100	<100	2,100
3365/SW304 W/2	SW304	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	1,100	<100	1,100
3365/SW305 W/1	SW305	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	180	<100	180
3365/SW305 W/2	SW305	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	330	<100	330
3365/SW306 W/1	SW306	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	200	<100	200
3365/SW306 W/2	SW306	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	150	<100	150
3365/SW307 W/1	SW307	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	2,800	<100	2,800
3365/SW307 W/2	SW307	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	940	<100	940
3365/SW308 W/1	SW308	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	290	<100	290
3365/SW308 W/2	SW308	23 Jan 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	53	150	<100	210

Statistics															
Number of Results	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects	0	0	0	0	0	0	0	0	0	0	1	14	0	14	
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<10	53	2,800	<100	2,800
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	5	27	563	50	564
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	5	25	195	50	200

* A Non Detect Multiplier of 0.5 has been applied.

Table 128: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 15.

	Biological	Inorganics		
	Faecal Coliforms	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	mg/L	mg/L	mg/L
EQL	1	0.1	0.05	0.005

Field ID	Location Code	Date				
3365/GW201	GW201	22 Jan 2024	<10	3.6	0.2	<0.005
3365/GW202	GW202	22 Jan 2024	900	0.2	0.3	0.18
3365/GW203	GW203	22 Jan 2024	1,000.0	0.2	0.08	0.007
3365/GW204	GW204	22 Jan 2024	<100	0.2	3.1	0.02
3365/GW205	GW205	22 Jan 2024		0.7	0.07	<0.005
3365/GW206	GW206	22 Jan 2024	<1,000.0	1.0	0.2	0.064
3365/GW207	GW207	22 Jan 2024	<10		<0.05	

Statistics

Number of Results	6	6	7	6
Number of Detects	2	6	6	4
Minimum Concentration	<10	0.2	<0.05	<0.005
Maximum Concentration	1,000	3.6	3.1	0.18
Average Concentration *	410	0.98	0.57	0.046
Median Concentration *	275	0.45	0.2	0.0135

* A Non Detect Multiplier of 0.5 has been applied.

Appendix AF – Event 15 Documents

Multi Parameter Water Meter

Instrument **YSI Pro DSS**
Serial No. **21K104037**



Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
	Recharge OK?	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH/ORP	✓	
	2. Turbidity	✓	
	3. Conductivity	✓	
	4. D.O	✓	
	5. Temp	✓	
	6. Depth	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. E.C		2760 uS/cm		414103	2760 uS/cm
2. Temp		23.4 °C		Instrument temp	23.2 °C
3. pH 4		pH 4.00		414101	pH 3.98
4. pH 7		pH 7.00		413975	pH 6.99
5. DO		0.0%		407802	-0.3%
6. Turbidity		100 NTU		419749	99.66 NTU
7. ORP		232.52 mV		A406331/B398193	232.6 mV

Calibrated by: Samuel Tanner

Calibration date: **18/01/2024**

Next calibration due: **17/02/2024**

SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0											
Name	P1203365 – Water Sampling, West Culburra, NSW										
Martens Contact Officer	Trystan Richards					Contact Email	trichards@martens.com.au				
Sampling and Shipping	Sample Date	22.01.2024 – 23.01.2024		Dispatch Date	23.01.2024		Turnaround Time			Standard	
	Our Reference	P1203365COC36V01				Shipping Method (X)	Hand	X	Post		Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt		Phone	02 9910 6200		Fax		Email	samlereceipt@envirolabservices.com.au	
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address			trichards@martens.com.au and CC, ANorris@martens.com.au	

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	ENVIROLAB
1 3365/GW201						X	
2 3365/GW202						X	Job No: 342233
3 3365/GW203						X	Date Received: 23/1/24
4 3365/GW204						X	Time Received: 1745
5 3365/GW205						X	Received By: DL
6 3365/GW206						X	Temp: Cool/Ambient
7 3365/GW207						X	Cooling: Icepack
							Security: Intact/Broken/None
8 3365/SW101	X	X	X	X			
9 3365/SW102	X	X	X	X			

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Head Office
Suite 201, 20 George Street
Hornsby NSW 2077, Australia
Ph 02 9476 9999 Fax 02 9476 8767

> mail@martens.com.au
> www.martens.com.au
MARTENS & ASSOCIATES P/L
ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
10 3365/SW103	X	X	X	X			
11 3365/SW201 W/1	X	X	X	X			
12 3365/SW201 W/2	X	X	X	X			
13 3365/SW202 W/1	X	X	X	X			
14 3365/SW202 W/2	X	X	X	X			
15 3365/SW203 W/1	X	X	X	X			
16 3365/SW203 W/2	X	X	X	X			
17 3365/SW204 W/1	X	X	X	X			
18 3365/SW204 W/2	X	X	X	X			
19 3365/SW205 W/1	X	X	X	X			
20 3365/SW205 W/1	X	X	X	X			
21 3365/SW206 W/1	X	X	X	X			
22 3365/SW206 W/2	X	X	X	X			
23 3365/SW207 W/1	X	X	X	X			
24 3365/SW207 W/2	X	X	X	X			
25 3365/SW208 W/1	X	X	X	X			
26 3365/SW208 W/2	X	X	X	X			
27 3365/SW209 W/1	X	X	X	X			
28 3365/SW209 W/2	X	X	X	X			
29 3365/SW210 W/1	X	X	X	X			
30 3365/SW210 W/2	X	X	X	X			
31 3365/SW211 W/1	X	X	X	X			
32 3365/SW211 W/2	X	X	X	X			
33 3365/SW212 W/1	X	X	X	X			
34 3365/SW212 W/2	X	X	X	X			
35 3365/SW213 W/1	X	X	X	X			
36 3365/SW213 W/2	X	X	X	X			
37 3365/SW214 W/1	X	X	X	X			
38 3365/SW214 W/2	X	X	X	X			

#342233
23/1/24
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SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
39 3365/SW215 W/1	X	X	X	X			
40 3365/SW215 W/2	X	X	X	X			
41 3365/SW216 W/1	X	X	X	X			
42 3365/SW216 W/2	X	X	X	X			
43 3365/SW217 W/1	X	X	X	X			
44 3365/SW217 W/2	X	X	X	X			
45 3365/SW301 W/1	X	X	X	X			
46 3365/SW301 W/1	X	X	X	X			
47 3365/SW302 W/1	X	X	X	X			
48 3365/SW302 W/2	X	X	X	X			
49 3365/SW303 W/1	X	X	X	X			
50 3365/SW303 W/2	X	X	X	X			
51 3365/SW304 W/1	X	X	X	X			
52 3365/SW304 W/2	X	X	X	X			
53 3365/SW305 W/1	X	X	X	X			
54 3365/SW305 W/2	X	X	X	X			
55 3365/SW306 W/1	X	X	X	X			
56 3365/SW306 W/2	X	X	X	X			
57 3365/SW307 W/1	X	X	X	X			
58 3365/SW307 W/2	X	X	X	X			
59 3365/SW308 W/1	X	X	X	X			
60 3365/SW308 W/2	X	X	X	X			
61 3365/DUP01	X						
62 3365/DUP02	X						
63 3365/DUP03	X						
64 3365/DUP04	X						
65 3365/GW DUP01					X		

34223
23/1/24
JC

CERTIFICATE OF ANALYSIS 342233

Client Details

Client	Martens & Associates Pty Ltd
Attention	Trystan Richards
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	65 Water
Date samples received	23/01/2024
Date completed instructions received	24/01/2024

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	01/02/2024
Date of Issue	01/02/2024
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Giovanni Agosti, Group Technical Manager
 Greta Petzold, Operation Manager
 Hannah Nguyen, Metals Supervisor
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vTRH in Water (C6-C9) NEPM

Our Reference		342233-8	342233-9	342233-10	342233-11	342233-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	103	102	103	104
Surrogate Toluene-d8	%	99	99	99	99	98
Surrogate 4-Bromofluorobenzene	%	102	103	103	102	104

vTRH in Water (C6-C9) NEPM

Our Reference		342233-13	342233-14	342233-15	342233-16	342233-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	30/01/2024	30/01/2024	30/01/2024	25/01/2024	25/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	104	103	103	103
Surrogate Toluene-d8	%	100	99	99	99	99
Surrogate 4-Bromofluorobenzene	%	97	104	103	99	99

vTRH in Water (C6-C9) NEPM

Our Reference		342233-18	342233-19	342233-20	342233-21	342233-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	103	103	103	103	103
Surrogate Toluene-d8	%	99	98	99	99	99
Surrogate 4-Bromofluorobenzene	%	97	99	100	99	101

vTRH in Water (C6-C9) NEPM

Our Reference		342233-23	342233-24	342233-25	342233-26	342233-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/01/2024	25/01/2024	30/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	31/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	103	103	104	104	90
Surrogate Toluene-d8	%	99	99	99	99	99
Surrogate 4-Bromofluorobenzene	%	98	100	103	100	93

vTRH in Water (C6-C9) NEPM

Our Reference		342233-28	342233-29	342233-30	342233-31	342233-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	103	103	103	104	103
Surrogate Toluene-d8	%	99	99	99	99	98
Surrogate 4-Bromofluorobenzene	%	99	99	97	95	99

vTRH in Water (C6-C9) NEPM

Our Reference		342233-33	342233-34	342233-35	342233-36	342233-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	103	103	102	103
Surrogate Toluene-d8	%	99	99	99	98	99
Surrogate 4-Bromofluorobenzene	%	99	100	98	98	98

vTRH in Water (C6-C9) NEPM

Our Reference		342233-38	342233-39	342233-40	342233-41	342233-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	103	103	104	103
Surrogate Toluene-d8	%	98	98	98	99	99
Surrogate 4-Bromofluorobenzene	%	97	98	98	99	98

vTRH in Water (C6-C9) NEPM

Our Reference		342233-43	342233-44	342233-45	342233-46	342233-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	106	103	102	102	99
Surrogate Toluene-d8	%	99	99	98	99	97
Surrogate 4-Bromofluorobenzene	%	101	98	97	97	92

vTRH in Water (C6-C9) NEPM

Our Reference		342233-48	342233-49	342233-50	342233-51	342233-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	99	103	103	101
Surrogate Toluene-d8	%	98	97	99	98	98
Surrogate 4-Bromofluorobenzene	%	99	93	99	98	96

vTRH in Water (C6-C9) NEPM

Our Reference		342233-53	342233-54	342233-55	342233-56	342233-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	102	103	104	102
Surrogate Toluene-d8	%	99	98	99	99	99
Surrogate 4-Bromofluorobenzene	%	98	99	98	97	97

vTRH in Water (C6-C9) NEPM

Our Reference		342233-58	342233-59	342233-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water
Date extracted	-	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	103	102
Surrogate Toluene-d8	%	99	98	98
Surrogate 4-Bromofluorobenzene	%	98	98	97

svTRH (C10-C40) in Water						
Our Reference	UNITS	342233-8	342233-9	342233-10	342233-11	342233-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
TRH C ₁₀ - C ₁₄	µg/L	73	<50	120	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	500	200	1,100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	120	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	690	200	1,300	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	360	170	980	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	270	<100	260	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	630	170	1,200	<50	<50
Surrogate o-Terphenyl	%	90	80	128	92	79

svTRH (C10-C40) in Water						
Our Reference	UNITS	342233-13	342233-14	342233-15	342233-16	342233-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	120
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	120
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	130
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	130
Surrogate o-Terphenyl	%	77	68	90	62	80

svTRH (C10-C40) in Water

Our Reference		342233-18	342233-19	342233-20	342233-21	342233-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	230	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	230	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	230	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	230	<50	<50	<50	<50
Surrogate o-Terphenyl	%	82	82	82	85	76

svTRH (C10-C40) in Water

Our Reference		342233-23	342233-24	342233-25	342233-26	342233-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	81	80	74	82	82

svTRH (C10-C40) in Water

Our Reference		342233-28	342233-29	342233-30	342233-31	342233-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	30/01/2024	30/01/2024	30/01/2024	30/01/2024	30/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	68	80	82	65

svTRH (C10-C40) in Water

Our Reference		342233-33	342233-34	342233-35	342233-36	342233-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	30/01/2024	30/01/2024	30/01/2024	30/01/2024	29/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	71	64	81	90	77

svTRH (C10-C40) in Water

Our Reference		342233-38	342233-39	342233-40	342233-41	342233-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	88	85	95	81	80

svTRH (C10-C40) in Water

Our Reference		342233-43	342233-44	342233-45	342233-46	342233-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	30/01/2024	30/01/2024	31/01/2024	31/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	160	190	120
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	160	190	120
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	130	180	80
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	130	180	80
Surrogate o-Terphenyl	%	83	82	63	81	79

svTRH (C10-C40) in Water

Our Reference		342233-48	342233-49	342233-50	342233-51	342233-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	200	<100	<100	2,100	1,100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	200	<50	<50	2,100	1,100
TRH >C ₁₀ - C ₁₆	µg/L	180	<50	<50	2,000	1,000
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	140	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	180	<50	<50	2,100	1,000
Surrogate o-Terphenyl	%	75	77	66	67	69

svTRH (C10-C40) in Water

Our Reference		342233-53	342233-54	342233-55	342233-56	342233-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	180	330	200	150	2,800
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	180	330	200	150	2,800
TRH >C ₁₀ - C ₁₆	µg/L	150	300	180	140	2,600
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	150	300	180	140	2,600
Surrogate o-Terphenyl	%	82	71	82	77	60

svTRH (C10-C40) in Water				
Our Reference		342233-58	342233-59	342233-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	53
TRH C ₁₅ - C ₂₈	µg/L	940	290	150
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	940	290	210
TRH >C ₁₀ - C ₁₆	µg/L	850	270	93
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	120
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	850	270	210
Surrogate o-Terphenyl	%	76	76	80

PAHs in Water						
Our Reference	UNITS	342233-8	342233-9	342233-10	342233-11	342233-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	90	88	95	101	90

PAHs in Water						
Our Reference		342233-13	342233-14	342233-15	342233-16	342233-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	88	79	104	65	92

PAHs in Water						
Our Reference		342233-18	342233-19	342233-20	342233-21	342233-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	87	81	86	95	82

PAHs in Water						
Our Reference		342233-23	342233-24	342233-25	342233-26	342233-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	87	89	82	89	90

PAHs in Water						
Our Reference		342233-28	342233-29	342233-30	342233-31	342233-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	83	71	85	81	69

PAHs in Water						
Our Reference		342233-33	342233-34	342233-35	342233-36	342233-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	73	67	75	74	74

PAHs in Water						
Our Reference		342233-38	342233-39	342233-40	342233-41	342233-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	76	86	81	80	82

PAHs in Water						
Our Reference		342233-43	342233-44	342233-45	342233-46	342233-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	31/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	87	63	61	80	66

PAHs in Water						
Our Reference		342233-48	342233-49	342233-50	342233-51	342233-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	65	65	66	67	63

PAHs in Water						
Our Reference		342233-53	342233-54	342233-55	342233-56	342233-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	66	67	72	65	66

PAHs in Water				
Our Reference		342233-58	342233-59	342233-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	66	67	68

Organochlorine Pesticides in Water						
Our Reference	UNITS	342233-8	342233-9	342233-10	342233-11	342233-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	90	89	102	103	91

Organochlorine Pesticides in Water						
Our Reference		342233-13	342233-14	342233-15	342233-16	342233-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	86	76	98	66	89

Organochlorine Pesticides in Water						
Our Reference		342233-18	342233-19	342233-20	342233-21	342233-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	86	82	81	95	80

Organochlorine Pesticides in Water						
Our Reference		342233-23	342233-24	342233-25	342233-26	342233-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	82	84	78	83	88

Organochlorine Pesticides in Water						
Our Reference		342233-28	342233-29	342233-30	342233-31	342233-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	80	74	84	83	67

Organochlorine Pesticides in Water						
Our Reference		342233-33	342233-34	342233-35	342233-36	342233-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	71	65	74	70	72

Organochlorine Pesticides in Water						
Our Reference		342233-38	342233-39	342233-40	342233-41	342233-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	72	79	75	73	74

Organochlorine Pesticides in Water						
Our Reference		342233-43	342233-44	342233-45	342233-46	342233-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	31/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	80	62	61	77	64

Organochlorine Pesticides in Water						
Our Reference		342233-48	342233-49	342233-50	342233-51	342233-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	61	65	66	67	63

Organochlorine Pesticides in Water						
Our Reference		342233-53	342233-54	342233-55	342233-56	342233-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	68	62	68	65	67

Organochlorine Pesticides in Water				
Our Reference		342233-58	342233-59	342233-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	73	66	62

PCBs in Water						
Our Reference	UNITS	342233-8	342233-9	342233-10	342233-11	342233-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	88	87	100	102	88

PCBs in Water						
Our Reference	UNITS	342233-13	342233-14	342233-15	342233-16	342233-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	85	76	100	64	90

PCBs in Water						
Our Reference		342233-18	342233-19	342233-20	342233-21	342233-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	87	77	83	88	76

PCBs in Water						
Our Reference		342233-23	342233-24	342233-25	342233-26	342233-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	77	82	75	80	80

PCBs in Water						
Our Reference		342233-28	342233-29	342233-30	342233-31	342233-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	78	70	80	82	62

PCBs in Water						
Our Reference		342233-33	342233-34	342233-35	342233-36	342233-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	69	63	82	79	79

PCBs in Water						
Our Reference		342233-38	342233-39	342233-40	342233-41	342233-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	81	87	85	81	84

PCBs in Water						
Our Reference		342233-43	342233-44	342233-45	342233-46	342233-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	31/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	89	69	68	79	71

PCBs in Water						
Our Reference		342233-48	342233-49	342233-50	342233-51	342233-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	69	72	66	77	71

PCBs in Water						
Our Reference		342233-53	342233-54	342233-55	342233-56	342233-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024	31/01/2024	31/01/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	72	66	69	74	68

PCBs in Water				
Our Reference		342233-58	342233-59	342233-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water
Date extracted	-	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	31/01/2024	31/01/2024	31/01/2024
Aroclor 1016	µg/L	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	79	75	69

All metals in water - total						
Our Reference	UNITS	342233-8	342233-9	342233-10	342233-11	342233-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	580	610	2,100	80	90
Arsenic-Total	µg/L	1	<1	1	2	2
Chromium-Total	µg/L	2	<1	2	<1	<1
Copper-Total	µg/L	5	3	7	2	2
Iron-Total	µg/L	2,200	280	2,700	190	230
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	4	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	14	9	52	3	5

All metals in water - total						
Our Reference	UNITS	342233-13	342233-14	342233-15	342233-16	342233-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	90	140	90	110	80
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	1	<1	<1	<1
Iron-Total	µg/L	230	240	220	250	260
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	14	10	10	3	3

All metals in water - total

Our Reference		342233-18	342233-19	342233-20	342233-21	342233-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	240	30	60	80	150
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	1	<1	<1	<1	<1
Iron-Total	µg/L	540	110	150	150	170
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	8	4	7	47	34

All metals in water - total

Our Reference		342233-23	342233-24	342233-25	342233-26	342233-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	100	110	80	90	110
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	1	<1	8	<1	<1
Iron-Total	µg/L	220	210	170	210	260
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	26	15	14	5	3

All metals in water - total

Our Reference		342233-28	342233-29	342233-30	342233-31	342233-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	290	90	110	100	90
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	<1	<1	1	<1	32
Iron-Total	µg/L	450	220	240	210	220
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	6	8	4	5	26

All metals in water - total

Our Reference		342233-33	342233-34	342233-35	342233-36	342233-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	70	80	110	120	120
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	1	2	1	1	1
Iron-Total	µg/L	150	210	270	290	290
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	8	7	7	9	24

All metals in water - total

Our Reference		342233-38	342233-39	342233-40	342233-41	342233-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	130	40	40	20	20
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	2	<1	<1	<1	<1
Iron-Total	µg/L	310	100	120	30	40
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	76	17	2	17	13

All metals in water - total

Our Reference		342233-43	342233-44	342233-45	342233-46	342233-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	10	20	1,100	700	650
Arsenic-Total	µg/L	2	2	1	1	<1
Chromium-Total	µg/L	<1	<1	2	2	2
Copper-Total	µg/L	<1	<1	4	3	4
Iron-Total	µg/L	40	40	2,300	1,700	1,600
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	2	1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	14	8	12	11	13

All metals in water - total

Our Reference		342233-48	342233-49	342233-50	342233-51	342233-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	760	30	20	3,800	2,500
Arsenic-Total	µg/L	<1	2	2	2	1
Chromium-Total	µg/L	2	<1	<1	4	3
Copper-Total	µg/L	3	2	2	5	3
Iron-Total	µg/L	1,500	160	140	6,200	5,100
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	1	<1	<1	3	3
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	2	13	5	11	7

All metals in water - total

Our Reference		342233-53	342233-54	342233-55	342233-56	342233-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	410	230	50	130	220
Arsenic-Total	µg/L	2	2	2	2	<1
Chromium-Total	µg/L	1	<1	<1	<1	<1
Copper-Total	µg/L	2	3	1	1	4
Iron-Total	µg/L	8,300	2,300	180	300	550
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	5	9	3	2	37

All metals in water - total						
Our Reference		342233-58	342233-59	342233-60	342233-61	342233-62
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2	3365/DUP01	3365/DUP02
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Aluminium-Total	µg/L	210	370	380	600	1,100
Arsenic-Total	µg/L	<1	2	2	1	1
Chromium-Total	µg/L	<1	1	2	2	2
Copper-Total	µg/L	3	3	3	6	4
Iron-Total	µg/L	610	3,100	2,900	2,300	1,800
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	2
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	7	6	6	18	11

All metals in water - total			
Our Reference		342233-63	342233-64
Your Reference	UNITS	3365/DUP03	3365/DUP04
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water
Date prepared	-	29/01/2024	29/01/2024
Date analysed	-	29/01/2024	29/01/2024
Aluminium-Total	µg/L	20	160
Arsenic-Total	µg/L	2	2
Chromium-Total	µg/L	<1	<1
Copper-Total	µg/L	<1	2
Iron-Total	µg/L	40	350
Mercury-Total	µg/L	<0.05	<0.05
Lead-Total	µg/L	<1	<1
Selenium-Total	µg/L	<1	<1
Zinc-Total	µg/L	1	2

Metals in Waters - Acid extractable

Our Reference		342233-1	342233-2	342233-3	342233-4	342233-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.2	0.3	0.08	3.1	0.07

Metals in Waters - Acid extractable

Our Reference		342233-6	342233-7	342233-8	342233-9	342233-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.2	<0.05	0.4	0.2	0.1

Metals in Waters - Acid extractable

Our Reference		342233-11	342233-12	342233-13	342233-14	342233-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.05	0.06	0.05	<0.05	0.05

Metals in Waters - Acid extractable

Our Reference		342233-16	342233-17	342233-18	342233-19	342233-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.05	0.07	0.1	0.05	0.06

Metals in Waters - Acid extractable

Our Reference		342233-21	342233-22	342233-23	342233-24	342233-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.05	0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		342233-26	342233-27	342233-28	342233-29	342233-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	0.06	0.05

Metals in Waters - Acid extractable

Our Reference		342233-31	342233-32	342233-33	342233-34	342233-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.06	<0.05	<0.05	<0.05	0.06

Metals in Waters - Acid extractable

Our Reference		342233-36	342233-37	342233-38	342233-39	342233-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	<0.05	0.06	0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		342233-41	342233-42	342233-43	342233-44	342233-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	0.05	0.06

Metals in Waters - Acid extractable

Our Reference		342233-46	342233-47	342233-48	342233-49	342233-50
Your Reference	UNITS	3365/SW301 W/2	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.07	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		342233-51	342233-52	342233-53	342233-54	342233-55
Your Reference	UNITS	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	<0.05	<0.05	0.08	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		342233-56	342233-57	342233-58	342233-59	342233-60
Your Reference	UNITS	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Date analysed	-	29/01/2024	29/01/2024	29/01/2024	29/01/2024	29/01/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Miscellaneous Inorganics

Our Reference		342233-1	342233-2	342233-3	342233-4	342233-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Nitrogen in water	mg/L	3.6	0.2	0.2	0.2	0.7
Phosphate as P in water	mg/L	<0.005	0.18	0.007	0.02	<0.005

Miscellaneous Inorganics

Our Reference		342233-6	342233-7	342233-8	342233-9	342233-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	[NA]	[NA]	10	30	680
Total Nitrogen in water	mg/L	1.0	[NT]	8.6	1.3	2.2
Phosphate as P in water	mg/L	0.064	[NT]	0.20	<0.005	<0.005
Chlorophyll a	mg/m ³	[NA]	[NA]	19	56	<1

Miscellaneous Inorganics

Our Reference		342233-11	342233-12	342233-13	342233-14	342233-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	12	7	8	6	8
Total Nitrogen in water	mg/L	0.5	0.4	0.3	0.7	0.5
Phosphate as P in water	mg/L	0.03	0.02	0.02	0.02	0.02
Chlorophyll a	mg/m ³	1	<1	<1	2	2

Miscellaneous Inorganics

Our Reference		342233-16	342233-17	342233-18	342233-19	342233-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	5	5	8	8	6
Total Nitrogen in water	mg/L	0.5	0.7	0.8	0.5	0.4
Phosphate as P in water	mg/L	0.02	0.008	0.007	0.02	0.02
Chlorophyll a	mg/m ³	<1	<1	<1	<1	<1

Miscellaneous Inorganics

Our Reference		342233-21	342233-22	342233-23	342233-24	342233-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	7	8	5	<5	7
Total Nitrogen in water	mg/L	0.3	0.3	0.3	0.3	0.6
Phosphate as P in water	mg/L	0.01	0.02	0.02	0.01	0.01
Chlorophyll a	mg/m ³	<1	<1	2	<1	<1

Miscellaneous Inorganics

Our Reference		342233-26	342233-27	342233-28	342233-29	342233-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	<5	6	8	7	<5
Total Nitrogen in water	mg/L	0.4	0.3	0.3	0.3	0.4
Phosphate as P in water	mg/L	0.01	0.01	0.01	0.01	0.01
Chlorophyll a	mg/m ³	<1	<1	<1	<1	<1

Miscellaneous Inorganics

Our Reference		342233-31	342233-32	342233-33	342233-34	342233-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	6	6	<5	6	8
Total Nitrogen in water	mg/L	0.7	0.4	0.3	0.5	0.3
Phosphate as P in water	mg/L	0.01	0.01	0.01	0.01	0.01
Chlorophyll a	mg/m ³	<1	<1	<1	<1	<1

Miscellaneous Inorganics

Our Reference		342233-36	342233-37	342233-38	342233-39	342233-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	8	7	8	8	6
Total Nitrogen in water	mg/L	0.4	0.4	0.5	0.4	0.2
Phosphate as P in water	mg/L	0.01	0.01	0.01	0.01	0.01
Chlorophyll a	mg/m ³	1	1	1	<1	<1

Miscellaneous Inorganics

Our Reference		342233-41	342233-42	342233-43	342233-44	342233-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	<5	<5	6	<5	64
Total Nitrogen in water	mg/L	0.2	0.2	0.2	0.2	3.3
Phosphate as P in water	mg/L	0.009	<0.005	0.007	0.007	<0.005
Chlorophyll a	mg/m ³	<1	<1	<1	<1	2

Miscellaneous Inorganics						
Our Reference		342233-46	342233-47	342233-48	342233-49	342233-50
Your Reference	UNITS	3365/SW301 W/2	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	48	12	38	<5	<5
Total Nitrogen in water	mg/L	2.5	1.4	1.8	0.9	0.8
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	5	3	<1	<1	<1

Miscellaneous Inorganics						
Our Reference		342233-51	342233-52	342233-53	342233-54	342233-55
Your Reference	UNITS	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	54	47	66	13	<5
Total Nitrogen in water	mg/L	1.7	1.3	3.1	1.6	0.8
Phosphate as P in water	mg/L	<0.005	0.006	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	35	<1	21	9	<1

Miscellaneous Inorganics						
Our Reference		342233-56	342233-57	342233-58	342233-59	342233-60
Your Reference	UNITS	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Date analysed	-	24/01/2024	24/01/2024	24/01/2024	24/01/2024	24/01/2024
Total Suspended Solids	mg/L	16	11	14	18	<5
Total Nitrogen in water	mg/L	0.8	1.7	1.3	1.4	1.5
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	2	13	30	3	2

Miscellaneous Inorganics		
Our Reference		342233-65
Your Reference	UNITS	3365/GW DUP01
Sampling Period Dates		22/01/2024- 23/01/2024
Type of sample		Water
Date prepared	-	24/01/2024
Date analysed	-	24/01/2024
pH	pH Units	6.3
Electrical Conductivity	µS/cm	13,000

Microbiological Testing

Our Reference		342233-1	342233-2	342233-3	342233-4	342233-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Faecal Coliforms	cfu/100mL	<10	900	1,000	<100	110 mpn/100mL

Microbiological Testing

Our Reference		342233-6	342233-7	342233-8	342233-9	342233-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	[NA]	[NA]	100	>10 & <100	<1,000
Faecal Coliforms	cfu/100mL	<1,000	<10	100	>10 & <100	<1,000

Microbiological Testing

Our Reference		342233-11	342233-12	342233-13	342233-14	342233-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	>10 & <100	200	100	200	>10 & <100
Faecal Coliforms	cfu/100mL	>10 & <100	200	100	200	>10 & <100

Microbiological Testing

Our Reference		342233-16	342233-17	342233-18	342233-19	342233-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	>10 & <100	1,000	1,000	>10 & <100	>10 & <100
Faecal Coliforms	cfu/100mL	>10 & <100	1,000	1,000	>10 & <100	>10 & <100

Microbiological Testing

Our Reference		342233-21	342233-22	342233-23	342233-24	342233-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	100	200	>10 & <100	>10 & <100	>10 & <100
Faecal Coliforms	cfu/100mL	100	200	>10 & <100	>10 & <100	>10 & <100

Microbiological Testing

Our Reference		342233-26	342233-27	342233-28	342233-29	342233-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	>10 & <100	>10 & <100	>10 & <100	100	<100
Faecal Coliforms	cfu/100mL	>10 & <100	>10 & <100	>10 & <100	100	<100

Microbiological Testing

Our Reference		342233-31	342233-32	342233-33	342233-34	342233-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	>10 & <100	>10 & <100	>10 & <100	200	100
Faecal Coliforms	cfu/100mL	>10 & <100	>10 & <100	>10 & <100	200	100

Microbiological Testing

Our Reference		342233-36	342233-37	342233-38	342233-39	342233-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	260	>10 & <100	>10 & <100	<100	<100
Faecal Coliforms	cfu/100mL	260	>10 & <100	>10 & <100	<100	<100

Microbiological Testing

Our Reference		342233-41	342233-42	342233-43	342233-44	342233-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	100	<10	100	100^A	1,700
Faecal Coliforms	cfu/100mL	100	<10	100	100^A	1,700

Microbiological Testing

Our Reference		342233-46	342233-47	342233-48	342233-49	342233-50
Your Reference	UNITS	3365/SW301 W/2	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	700	14,000	20,000	300	200
Faecal Coliforms	cfu/100mL	700	14,000	20,000	300	200

Microbiological Testing

Our Reference		342233-51	342233-52	342233-53	342233-54	342233-55
Your Reference	UNITS	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	1,100	600	5,000	1,000	400
Faecal Coliforms	cfu/100mL	1,100	600	5,000	1,000	400

Microbiological Testing

Our Reference		342233-56	342233-57	342233-58	342233-59	342233-60
Your Reference	UNITS	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024	22/01/2024-23/01/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
E. coli	cfu/100mL	300	<1,000	<1,000	>100 & <1000	>100 & <1000
Faecal Coliforms	cfu/100mL	300	<1,000	<1,000	>100 & <1000	>100 & <1000

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determined stoichiometrically from the base metal concentration.
Org-020	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-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			30/01/2024	8	30/01/2024	30/01/2024		30/01/2024	[NT]
Date analysed	-			31/01/2024	8	31/01/2024	31/01/2024		31/01/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	8	<10	<10	0	100	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	8	<10	<10	0	100	[NT]
Surrogate Dibromofluoromethane	%		Org-023	102	8	102	104	2	101	[NT]
Surrogate Toluene-d8	%		Org-023	99	8	99	100	1	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	102	8	102	102	0	104	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			[NT]	11	30/01/2024	29/01/2024		25/01/2024	[NT]
Date analysed	-			[NT]	11	31/01/2024	30/01/2024		29/01/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	11	<10	<10	0	106	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	11	<10	<10	0	106	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	11	103	105	2	99	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	11	99	99	0	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	11	102	103	1	101	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			[NT]	21	25/01/2024	29/01/2024		25/01/2024	[NT]
Date analysed	-			[NT]	21	29/01/2024	30/01/2024		29/01/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	21	<10	<10	0	106	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	21	<10	<10	0	106	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	21	103	105	2	100	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	21	99	100	1	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	21	99	103	4	101	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	31	25/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	31	29/01/2024	30/01/2024		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	31	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	31	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	31	104	104	0	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	31	99	99	0	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	31	95	103	8	[NT]	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	41	25/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	41	29/01/2024	30/01/2024		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	41	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	41	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	41	104	105	1	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	41	99	99	0	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	41	99	103	4	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	342233-9
Date extracted	-			29/01/2024	8	29/01/2024	29/01/2024		30/01/2024	29/01/2024
Date analysed	-			30/01/2024	8	30/01/2024	30/01/2024		30/01/2024	30/01/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	8	73	130	56	105	99
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	8	500	590	17	114	104
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	8	120	110	9	100	86
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	8	360	380	5	105	99
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	8	270	380	34	114	104
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	8	<100	<100	0	100	86
Surrogate o-Terphenyl	%		Org-020	69	8	90	68	28	85	90

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	342233-29
Date extracted	-			[NT]	18	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	18	30/01/2024	30/01/2024		30/01/2024	30/01/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	18	<50	<50	0	116	107
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	18	230	370	47	107	104
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	18	<100	<100	0	114	91
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	18	230	360	44	116	107
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	18	<100	<100	0	107	104
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	18	<100	<100	0	114	91
Surrogate o-Terphenyl	%		Org-020	[NT]	18	82	69	17	99	91

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	342233-45
Date extracted	-			[NT]	28	29/01/2024	29/01/2024		29/01/2024	30/01/2024
Date analysed	-			[NT]	28	30/01/2024	30/01/2024		29/01/2024	30/01/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	28	<50	<50	0	96	106
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	28	<100	<100	0	106	109
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	28	<100	<100	0	86	92
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	28	<50	<50	0	96	106
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	28	<100	<100	0	106	109
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	28	<100	<100	0	86	92
Surrogate o-Terphenyl	%		Org-020	[NT]	28	77	80	4	85	83

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	38	29/01/2024	29/01/2024		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	38	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	38	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	38	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	38	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	38	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	38	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	38	88	101	14	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	49	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	49	31/01/2024	31/01/2024		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	49	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	49	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	49	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	49	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	49	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	49	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	49	77	78	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	50	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	50	31/01/2024	31/01/2024		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	50	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	50	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	50	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	50	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	50	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	50	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	50	66	74	11	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	59	31/01/2024	31/01/2024		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	59	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	59	290	280	4	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	59	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	59	270	220	20	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	59	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	59	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	59	76	70	8	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	342233-9
Date extracted	-			29/01/2024	8	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			31/01/2024	8	29/01/2024	29/01/2024		31/01/2024	29/01/2024
Naphthalene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	78	104
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	81	94
Fluorene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	75	96
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	80	88
Anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	82	87
Pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	75	86
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	72	91
Benzo(b,j,k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	69	101
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	90	8	90	79	13	62	92

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	342233-29
Date extracted	-			[NT]	18	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	18	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Naphthalene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	124	124
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	117	102
Fluorene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	119	106
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	112	100
Anthracene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	106	97
Pyrene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	105	96
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	110	100
Benzo(b,j,k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	126	113
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	18	87	71	20	95	88

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	342233-45
Date extracted	-			[NT]	28	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	28	29/01/2024	29/01/2024		29/01/2024	31/01/2024
Naphthalene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	132	86
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	121	84
Fluorene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	125	77
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	114	80
Anthracene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	111	75
Pyrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	109	74
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	114	72
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	127	80
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	28	83	86	4	104	61

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	342233-60
Date extracted	-			[NT]	38	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	38	31/01/2024	31/01/2024		29/01/2024	31/01/2024
Naphthalene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	124	121
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	117	122
Fluorene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	119	115
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	112	119
Anthracene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	106	118
Pyrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	105	124
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	110	113
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	126	106
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	38	76	82	8	95	115

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	49	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	49	31/01/2024	31/01/2024		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	49	65	80	21	[NT]	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	59	31/01/2024	31/01/2024		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Surrogate <i>p</i> -Terphenyl-d14	%		Org-022/025	[NT]	59	67	65	3	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	342233-9
Date extracted	-			29/01/2024	8	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			31/01/2024	8	29/01/2024	29/01/2024		31/01/2024	29/01/2024
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	71	92
HCB	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	82	97
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	79	96
delta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	62	70
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	78	98
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	79	91
Dieldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	79	93
Endrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	84	110
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	69	99
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	66	85
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	91	8	90	80	12	115	93

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	342233-29
Date extracted	-			[NT]	18	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	18	29/01/2024	29/01/2024		29/01/2024	29/01/2024
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	114	101
HCB	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	123	106
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	112	106
delta-BHC	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	109	102
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	119	108
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	111	104
Dieldrin	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	102	103
Endrin	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	119	129
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	122	110
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	101	94
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	18	86	76	12	97	89

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	342233-45
Date extracted	-			[NT]	28	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	28	29/01/2024	29/01/2024		29/01/2024	31/01/2024
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	113	64
HCB	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	117	79
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	116	76
delta-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	111	60
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	121	74
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	112	77
Dieldrin	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	111	76
Endrin	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	124	101
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	122	73
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	101	73
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	28	80	84	5	102	115

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	342233-60
Date extracted	-			[NT]	38	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	38	31/01/2024	31/01/2024		29/01/2024	31/01/2024
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	114	111
HCB	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	123	127
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	112	120
delta-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	109	105
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	119	129
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	111	136
Dieldrin	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	102	133
Endrin	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	119	123
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	122	109
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	101	120
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	38	72	75	4	97	116

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	49	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	49	31/01/2024	31/01/2024		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	49	65	73	12	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	59	31/01/2024	31/01/2024		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	59	66	61	8	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	342233-9
Date extracted	-			29/01/2024	8	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			31/01/2024	8	29/01/2024	29/01/2024		31/01/2024	29/01/2024
Aroclor 1016	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	74	95
Aroclor 1260	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	61	8	88	78	12	60	97

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	342233-29
Date extracted	-			[NT]	18	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	18	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	110	103
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	18	87	69	23	104	94

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	342233-45
Date extracted	-			[NT]	28	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	28	29/01/2024	29/01/2024		29/01/2024	31/01/2024
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	111	73
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	28	78	80	3	109	61

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	342233-60
Date extracted	-			[NT]	38	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	38	31/01/2024	31/01/2024		29/01/2024	31/01/2024
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	110	70
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	38	81	83	2	104	120

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	49	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	49	31/01/2024	31/01/2024		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	49	72	77	7	[NT]	[NT]

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	59	31/01/2024	31/01/2024		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	59	75	69	8	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	342233-9
Date prepared	-			29/01/2024	8	29/01/2024	25/01/2024		29/01/2024	29/01/2024
Date analysed	-			29/01/2024	8	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Aluminium-Total	µg/L	10	Metals-022	<10	8	580	590	2	101	#
Arsenic-Total	µg/L	1	Metals-022	<1	8	1	1	0	96	107
Chromium-Total	µg/L	1	Metals-022	<1	8	2	2	0	91	88
Copper-Total	µg/L	1	Metals-022	<1	8	5	4	22	95	90
Iron-Total	µg/L	10	Metals-022	<10	8	2200	2100	5	96	#
Mercury-Total	µg/L	0.05	Metals-021	<0.05	8	<0.05	<0.05	0	102	97
Lead-Total	µg/L	1	Metals-022	<1	8	<1	<1	0	98	98
Selenium-Total	µg/L	1	Metals-022	<1	8	<1	<1	0	93	101
Zinc-Total	µg/L	1	Metals-022	<1	8	14	16	13	93	100

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	342233-29
Date prepared	-			[NT]	17	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	17	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	17	80	[NT]		103	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	17	2	[NT]		95	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		109	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		106	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	17	260	[NT]		108	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	17	<0.05	<0.05	0	106	102
Lead-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		96	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		91	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	17	3	[NT]		103	[NT]

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	342233-30
Date prepared	-			[NT]	18	29/01/2024	25/01/2024		29/01/2024	29/01/2024
Date analysed	-			[NT]	18	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	18	240	270	12	102	96
Arsenic-Total	µg/L	1	Metals-022	[NT]	18	2	2	0	93	108
Chromium-Total	µg/L	1	Metals-022	[NT]	18	<1	<1	0	103	121
Copper-Total	µg/L	1	Metals-022	[NT]	18	1	1	0	101	103
Iron-Total	µg/L	10	Metals-022	[NT]	18	540	540	0	105	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	18	<0.05	[NT]		106	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	18	<1	<1	0	97	86
Selenium-Total	µg/L	1	Metals-022	[NT]	18	<1	<1	0	91	89
Zinc-Total	µg/L	1	Metals-022	[NT]	18	8	8	0	100	113

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QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	342233-49
Date prepared	-			[NT]	28	29/01/2024	25/01/2024		[NT]	29/01/2024
Date analysed	-			[NT]	28	29/01/2024	29/01/2024		[NT]	29/01/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	28	290	330	13	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	28	2	2	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	28	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	28	<1	<1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	28	450	460	2	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	28	<0.05	<0.05	0	[NT]	100
Lead-Total	µg/L	1	Metals-022	[NT]	28	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	28	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	28	6	7	15	[NT]	[NT]

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	342233-52
Date prepared	-			[NT]	34	29/01/2024	25/01/2024		[NT]	29/01/2024
Date analysed	-			[NT]	34	29/01/2024	29/01/2024		[NT]	29/01/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	34	80	100	22	[NT]	#
Arsenic-Total	µg/L	1	Metals-022	[NT]	34	2	2	0	[NT]	80
Chromium-Total	µg/L	1	Metals-022	[NT]	34	<1	<1	0	[NT]	82
Copper-Total	µg/L	1	Metals-022	[NT]	34	2	1	67	[NT]	88
Iron-Total	µg/L	10	Metals-022	[NT]	34	210	220	5	[NT]	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	34	<0.05	[NT]		[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	34	<1	<1	0	[NT]	82
Selenium-Total	µg/L	1	Metals-022	[NT]	34	<1	<1	0	[NT]	75
Zinc-Total	µg/L	1	Metals-022	[NT]	34	7	9	25	[NT]	85

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	38	29/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	38	29/01/2024	29/01/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	38	130	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	38	2	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	38	<1	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	38	2	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	38	310	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	38	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	38	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	38	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	38	76	[NT]		[NT]	[NT]

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QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	48	25/01/2024	25/01/2024		[NT]	[NT]
Date analysed	-			[NT]	48	29/01/2024	29/01/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	48	760	740	3	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	48	<1	<1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	48	2	2	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	48	3	3	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	48	1500	1500	0	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	48	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	48	1	1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	48	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	48	2	4	67	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	54	25/01/2024	25/01/2024		[NT]	[NT]
Date analysed	-			[NT]	54	29/01/2024	29/01/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	54	230	220	4	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	54	2	2	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	54	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	54	3	3	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	54	2300	2500	8	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	54	<0.05	[NT]		[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	54	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	54	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	54	9	7	25	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	58	25/01/2024	29/01/2024		[NT]	[NT]
Date analysed	-			[NT]	58	29/01/2024	29/01/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	58	210	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	58	3	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	58	610	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	58	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	58	7	[NT]		[NT]	[NT]

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QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	342233-2
Date prepared	-			25/01/2024	8	25/01/2024	25/01/2024		25/01/2024	25/01/2024
Date analysed	-			29/01/2024	8	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	8	0.4	0.4	0	108	100

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	342233-29
Date prepared	-			[NT]	18	25/01/2024	25/01/2024		25/01/2024	25/01/2024
Date analysed	-			[NT]	18	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	18	0.1	0.1	0	110	106

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	342233-42
Date prepared	-			[NT]	28	25/01/2024	25/01/2024		25/01/2024	25/01/2024
Date analysed	-			[NT]	28	29/01/2024	29/01/2024		29/01/2024	29/01/2024
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	28	<0.05	0.06	18	112	120

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	34	25/01/2024	25/01/2024		[NT]	[NT]
Date analysed	-			[NT]	34	29/01/2024	29/01/2024		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	34	<0.05	<0.05	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	48	25/01/2024	25/01/2024		[NT]	[NT]
Date analysed	-			[NT]	48	29/01/2024	29/01/2024		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	48	<0.05	<0.05	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	54	25/01/2024	25/01/2024		[NT]	[NT]
Date analysed	-			[NT]	54	29/01/2024	29/01/2024		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	54	<0.05	<0.05	0	[NT]	[NT]

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QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	342233-1
Date prepared	-			24/01/2024	2	24/01/2024	24/01/2024		24/01/2024	24/01/2024
Date analysed	-			24/01/2024	2	24/01/2024	24/01/2024		24/01/2024	24/01/2024
Total Suspended Solids	mg/L	5	Inorg-019	<5	9	30	[NT]		105	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	2	0.2	0.2	0	80	90
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	2	0.18	[NT]		101	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	<1	9	56	[NT]		95	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	342233-10
Date prepared	-			[NT]	9	24/01/2024	24/01/2024		24/01/2024	24/01/2024
Date analysed	-			[NT]	9	24/01/2024	24/01/2024		24/01/2024	24/01/2024
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	10	680	640	6	93	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	9	1.3	[NT]		98	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	9	<0.005	<0.005	0	92	98
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	10	<1	[NT]		75	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	342233-20
Date prepared	-			[NT]	10	24/01/2024	24/01/2024		24/01/2024	24/01/2024
Date analysed	-			[NT]	10	24/01/2024	24/01/2024		24/01/2024	24/01/2024
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	11	12	[NT]		95	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	10	2.2	[NT]		115	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	10	<0.005	[NT]		105	105
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	11	1	[NT]		130	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	342233-30
Date prepared	-			[NT]	11	24/01/2024	24/01/2024		[NT]	24/01/2024
Date analysed	-			[NT]	11	24/01/2024	24/01/2024		[NT]	24/01/2024
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.5	0.5	0	[NT]	124
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	0.03	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	19	8	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	19	<1	[NT]		[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	342233-40
Date prepared	-			[NT]	19	24/01/2024	24/01/2024		[NT]	24/01/2024
Date analysed	-			[NT]	19	24/01/2024	24/01/2024		[NT]	24/01/2024
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	19	0.5	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	19	0.02	0.02	0	[NT]	110
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	21	7	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	21	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	342233-45
Date prepared	-			[NT]	21	24/01/2024	24/01/2024		[NT]	24/01/2024
Date analysed	-			[NT]	21	24/01/2024	24/01/2024		[NT]	24/01/2024
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	21	0.3	0.3	0	[NT]	106
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	21	0.01	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	22	8	7	13	[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	22	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	342233-60
Date prepared	-			[NT]	22	24/01/2024	24/01/2024		[NT]	24/01/2024
Date analysed	-			[NT]	22	24/01/2024	24/01/2024		[NT]	24/01/2024
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	22	0.3	[NT]		[NT]	126
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	22	0.02	[NT]		[NT]	103
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	29	7	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	29	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	29	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	29	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	29	0.3	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	29	0.01	0.01	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	30	<5	5	0	[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	30	<1	[NT]		[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	30	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	30	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	30	0.4	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	30	0.01	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	31	6	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	31	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	31	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	31	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	31	0.7	0.7	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	31	0.01	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	35	8	8	0	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	35	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	35	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	35	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	35	0.3	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	35	0.01	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	39	8	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	39	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	39	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	39	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	39	0.4	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	39	0.01	0.01	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	41	<5	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	41	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	41	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	41	0.2	0.2	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	41	0.009	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	46	48	47	2	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	46	5	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	46	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	46	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	46	2.5	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	46	<0.005	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	49	<5	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	49	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	49	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	49	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	49	0.9	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	49	<0.005	<0.005	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	51	54	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	51	35	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	51	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	51	1.7	1.8	6	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	51	<0.005	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	59	18	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	59	3	[NT]		[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	59	24/01/2024	24/01/2024		[NT]	[NT]
Date analysed	-			[NT]	59	24/01/2024	24/01/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	59	1.4	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	59	<0.005	<0.005	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

All metals in water - total - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Faecal Coliform & E.Coli analysed by Sonic Food & Water Testing. Report No's W2401863, W2401864, W2401865, W2401866, W2401867, W2401868, W2401869 & W2401870

A: Approximate

^ The stated result may be statistically unreliable

The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

Appendix AG – Event 16 Data

Table 130: In situ water quality data and statistical summary for Crookhaven surface waters during Event 16.

[illegible]

Table 132: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 16.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW101	SW101	12 Feb 2024	<10	120	220	<100	330	<100	<100	0.01	<0.2	20	1.0	0.74	32	0.32	0.001	0.001	0.005	3.5
3365/SW102	SW102	12 Feb 2024	<10	<50	<100	<100	<50	<100	<100	0.19	<0.2	2.3	0.2	<0.005	35	0.77	<0.001	<0.001	0.002	0.44
3365/SW103	SW103	13 Feb 2024	<10	<50	<100	<100	<50			0.001	<0.2	2.3	0.06	<0.005	35	0.64	<0.001	0.002	0.003	0.72

Statistics																			
Number of Results			3	3	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	1	1	0	1	0	0	3	0	3	3	1	3	3	1	2	3
Minimum Concentration			<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	2.3	0.06	<0.005	32	0.32	0.001	0.001	0.002
Maximum Concentration			<10	120	220	<100	330	<100	<100	0.19	<0.2	20	1	0.74	35	0.77	0.001	0.002	0.005
Average Concentration *			5	57	107	50	127	50	50	0.067	0.1	8.2	0.42	0.25	34	0.58	0.00067	0.0012	0.0033
Median Concentration *			5	25	50	50	25	50	50	0.01	0.1	2.3	0.2	0.0025	35	0.64	0.0005	0.001	0.003

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																			
3365/SW101	SW101	12 Feb 2024	<0.001	<0.00005	<0.001	0.014	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW102	SW102	12 Feb 2024	<0.001	<0.00005	<0.001	0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW103	SW103	13 Feb 2024	0.001	<0.00005	<0.001	0.012	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			0.001	<0.00005	<0.001	0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration			0.001	<0.00005	<0.001	0.014	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *			0.00067	0.000025	0.0005	0.011	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *			0.0005	0.000025	0.0005	0.012	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH														
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Field ID	Location Code	Date																			
3365/SW101	SW101	12 Feb 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW102	SW102	12 Feb 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW103	SW103	13 Feb 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs								TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50	

Field ID	Location Code	Date													
3365/SW101	SW101	12 Feb 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	74	210	<100	280
3365/SW102	SW102	12 Feb 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW103	SW103	13 Feb 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50

Statistics															
Number of Results			3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects			0	0	0	0	0	0	0	0	0	1	1	0	1
Minimum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration			<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	74	210	<100	280
Average Concentration *			0.00025	0.00005	1	1	1	1	1	1	5	41	103	50	110
Median Concentration *			0.00025	0.00005	1	1	1	1	1	1	5	25	50	50	25

* A Non Detect Multiplier of 0.5 has been applied.

Table 133: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event 16.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/SW205	SW205	13 Feb 2024	<10	<50	<100	<100	<50	<100	<100	0.004	<0.2	0.3	<0.1	0.01	20	0.09	0.002	<0.001	<0.001	0.17
3365/SW207	SW207	13 Feb 2024	<10	<50	<100	<100	<50			0.002	<0.2	0.4	<0.1	0.01	74	0.25	0.002	<0.001	<0.001	0.49
3365/SW210	SW210	13 Feb 2024	<10	<50	<100	<100	<50	<100	<100	0.002	<0.2	0.4	<0.1	0.01	34	0.33	0.002	0.001	<0.001	0.81
3365/SW211	SW211	13 Feb 2024	<10	<50	<100	<100	<50	<100	<100	0.005	<0.2	0.3	<0.1	0.006	42	0.39	0.002	0.001	0.003	0.92

Statistics																			
Number of Results	4	4	4	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	4	0	4	0	4	4	4	4	2	1	4	4
Minimum Concentration	<10	<50	<100	<100	<50	<100	<100	0.002	<0.2	0.3	<0.1	0.006	20	0.09	0.002	0.001	<0.001	0.17	0.17
Maximum Concentration	<10	<50	<100	<100	<50	<100	<100	0.005	<0.2	0.4	<0.1	0.01	74	0.39	0.002	0.001	0.003	0.92	0.92
Average Concentration *	5	25	50	50	25	50	50	0.0032	0.1	0.35	0.05	0.009	42	0.26	0.002	0.00075	0.0011	0.6	0.6
Median Concentration *	5	25	50	50	25	50	50	0.003	0.1	0.35	0.05	0.01	38	0.29	0.002	0.00075	0.0005	0.65	0.65

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides															
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	γ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQ	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	

Field ID	Location Code	Date																			
3365/SW205	SW205	13 Feb 2024	<0.001	<0.00005	<0.001	0.001	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW207	SW207	13 Feb 2024	<0.001	<0.00005	<0.001	0.003	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW210	SW210	13 Feb 2024	<0.001	<0.00005	<0.001	0.002	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
3365/SW211	SW211	13 Feb 2024	<0.001	<0.00005	<0.001	0.014	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	

Statistics																				
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.001	<0.00005	<0.001	0.001	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration	<0.001	<0.00005	<0.001	0.014	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *	0.0005	0.000025	0.0005	0.005	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *	0.0005	0.000025	0.0005	0.0025	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH															
	γ-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3365/SW205	SW205	13 Feb 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW207	SW207	13 Feb 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW210	SW210	13 Feb 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW211	SW211	13 Feb 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date													
3365/SW205	SW205	13 Feb 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW207	SW207	13 Feb 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW210	SW210	13 Feb 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW211	SW211	13 Feb 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50

Statistics															
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50	<50
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50	<50
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	5	25	50	50	25	25
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	5	25	50	50	25	25

* A Non Detect Multiplier of 0.5 has been applied.

Table 134: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 16.

	Biological	Inorganics		
	Faecal Coliforms	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	mg/L	mg/L	mg/L
EQL	1	0.1	0.05	0.005

Field ID	Location Code	Date				
3365/GW201	GW201	12 Feb 2024	<100	0.3	0.2	<0.005
3365/GW202	GW202	12 Feb 2024	800	<0.1	0.2	0.19
3365/GW203	GW203	12 Feb 2024	<100	0.1	0.06	0.02
3365/GW204	GW204	12 Feb 2024	100	2.4	<0.05	<0.005
3365/GW205	GW205	12 Feb 2024	<10	0.2	0.3	0.01
3365/GW206	GW206	13 Feb 2024		0.2	0.1	0.074
3365/GW207	GW207	13 Feb 2024	<100	0.4	<0.05	0.006

Statistics					
Number of Results			6	7	7
Number of Detects			2	6	5
Minimum Concentration			<10	0.1	<0.05
Maximum Concentration			800	2.4	0.3
Average Concentration *			176	0.52	0.13
Median Concentration *			50	0.2	0.1

* A Non Detect Multiplier of 0.5 has been applied.

Appendix AH – Event 16 Documents

Multi Parameter Water Meter

Instrument **YSI Pro DSS**
Serial No. **21K101476**



Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
	Recharge OK?	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH/ORP	✓	
	2. Turbidity	✓	
	3. Conductivity	✓	
	4. D.O	✓	
	5. Temp	✓	
	6. Depth	x	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 7.00		pH 7.00	NIST	413975	pH 7.01
2. pH 4.00		pH 4.00	NIST	405966	pH 3.99
3. ORP		232.52	NIST	A406331/B398193	232.6
4. EC		2760uS	NIST	406852	2762uS
6. D.O		0.0%	NIST	407802	-0.2%
7. Temp		23.4°C	NIST	MultiTherm	23.4°C
8. Turbidity		100NTU	NIST	413978	97.6 NTU

P

Sara Angelini

Calibration date: 05/02/2024

Next calibration due: 06/03/2024

Doc 14/2/24, 1433

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SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0											
Name	P1203365 – Water Sampling, West Culburra, NSW										
Martens Contact Officer	Bryson Monaghan					Contact Email	bmonaghan@martens.com.au				
Sampling and Shipping	Sample Date	12 to 13.02.2024		Dispatch Date	14.02.2024		Turnaround Time		Standard		
	Our Reference	P1203365COC37V01				Shipping Method (X)	Hand		X	Post	Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt		Phone	02 9910 6200		Fax		Email	samplereceipt@envirolabservices.com.au	
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address		trichards@martens.com.au, bmonaghan@martens.com.au and CC, ANorris@martens.com.au		

	Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	Envirolab Services 12 Ashley St Chatswood NSW 2067 Ph: 02) 9910 6200
1	3365/GW201						X	ENVIROLAB
2	3365/GW202						X	Job No: 343443
3	3365/GW203						X	Date Received: 14/2/24
4	3365/GW205						X	Time Received: 1300
5	3365/GW204						X	Received By: CC
6	3365/GW206						X	Temp: Cool/Ambient
7	3365/GW207						X	Cooling: Ice/No pack
8								Security: Intact/Broken/None
9	3365/SW101	X	X	X	X			
	3355/SW102	X	X	X	X			

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MARTENS & ASSOCIATES P/L
ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

Page 2 of 2

	Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
10	3355/SW103	x	x	x	x			
11	3365/SW205	x	x	x	x			
12	3365/SW207	x	x	x	x			
13	3365/SW210	x	x	x	x			
14	3365/SW211	x	x	x	x			
15	3365/GWDUP01					x		
16	3365/DUP01	x						
17	3365/DUP03	x						

343943 CC 14/2/24
1300

CERTIFICATE OF ANALYSIS 343943

Client Details

Client	Martens & Associates Pty Ltd
Attention	Bryson Monaghan
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	17 Water
Date samples received	14/02/2024
Date completed instructions received	14/02/2024

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	21/02/2024
Date of Issue	21/02/2024
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Diego Bigolin, Inorganics Supervisor
 Giovanni Agosti, Group Technical Manager
 Greta Petzold, Operation Manager
 Steven Luong, Senior Chemist
 Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH in Water (C6-C9) NEPM

Our Reference		343943-8	343943-9	343943-10	343943-11	343943-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	106	104	103	102	106
Surrogate Toluene-d8	%	97	98	97	100	97
Surrogate 4-Bromofluorobenzene	%	95	95	93	89	95

vTRH in Water (C6-C9) NEPM

Our Reference		343943-13	343943-14
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		12/02/2024	12/02/2024
Type of sample		Water	Water
Date extracted	-	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024
TRH C ₆ - C ₉	µg/L	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10
Surrogate Dibromofluoromethane	%	104	94
Surrogate Toluene-d8	%	97	98
Surrogate 4-Bromofluorobenzene	%	93	89

svTRH (C10-C40) in Water						
Our Reference		343943-8	343943-9	343943-10	343943-11	343943-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024
TRH C ₁₀ - C ₁₄	µg/L	74	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	210	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	280	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	120	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	220	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	330	<50	<50	<50	<50
Surrogate o-Terphenyl	%	73	72	75	84	73

svTRH (C10-C40) in Water			
Our Reference		343943-13	343943-14
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		12/02/2024	12/02/2024
Type of sample		Water	Water
Date extracted	-	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50
Surrogate o-Terphenyl	%	85	81

PAHs in Water						
Our Reference		343943-8	343943-9	343943-10	343943-11	343943-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	65	84	88	92	88

PAHs in Water			
Our Reference		343943-13	343943-14
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		12/02/2024	12/02/2024
Type of sample		Water	Water
Date extracted	-	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024
Naphthalene	µg/L	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	101	97

Organochlorine Pesticides in Water						
Our Reference		343943-8	343943-9	343943-10	343943-11	343943-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	62	88	88	93	85

Organochlorine Pesticides in Water			
Our Reference		343943-13	343943-14
Your Reference	UNITS	3365/SW210	3365/SW211
Date Sampled		12/02/2024	12/02/2024
Type of sample		Water	Water
Date extracted	-	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024
alpha-BHC	µg/L	<0.2	<0.2
HCB	µg/L	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	97	93

PCBs in Water						
Our Reference	UNITS	343943-8	343943-9	343943-10	343943-11	343943-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024	16/02/2024	16/02/2024	16/02/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	61	84	85	88	85

PCBs in Water			
Our Reference	UNITS	343943-13	343943-14
Your Reference		3365/SW210	3365/SW211
Date Sampled		12/02/2024	12/02/2024
Type of sample		Water	Water
Date extracted	-	15/02/2024	15/02/2024
Date analysed	-	16/02/2024	16/02/2024
Aroclor 1016	µg/L	<2	<2
Aroclor 1221	µg/L	<2	<2
Aroclor 1232	µg/L	<2	<2
Aroclor 1242	µg/L	<2	<2
Aroclor 1248	µg/L	<2	<2
Aroclor 1254	µg/L	<2	<2
Aroclor 1260	µg/L	<2	<2
Surrogate 2-Fluorobiphenyl	%	98	94

All metals in water - total						
Our Reference		343943-8	343943-9	343943-10	343943-11	343943-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW205	3365/SW207
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Date analysed	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Aluminium-Total	µg/L	320	770	640	90	250
Arsenic-Total	µg/L	1	<1	<1	2	2
Chromium-Total	µg/L	1	<1	2	<1	<1
Copper-Total	µg/L	5	2	3	<1	<1
Iron-Total	µg/L	3,500	440	720	170	490
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	14	8	12	1	3

All metals in water - total					
Our Reference		343943-13	343943-14	343943-16	343943-17
Your Reference	UNITS	3365/SW210	3365/SW211	3365/DUP01	3365/DUP03
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water
Date prepared	-	15/02/2024	15/02/2024	19/02/2024	15/02/2024
Date analysed	-	15/02/2024	15/02/2024	20/02/2024	15/02/2024
Aluminium-Total	µg/L	330	390	300	380
Arsenic-Total	µg/L	2	2	1	2
Chromium-Total	µg/L	1	1	1	1
Copper-Total	µg/L	<1	3	9	3
Iron-Total	µg/L	810	920	3,300	980
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1
Zinc-Total	µg/L	2	14	20	12

Metals in Waters - Acid extractable						
Our Reference		343943-1	343943-2	343943-3	343943-4	343943-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW205	3365/GW204
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Date analysed	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Phosphorus - Total	mg/L	0.2	0.2	0.06	0.3	<0.05

Metals in Waters - Acid extractable						
Our Reference		343943-6	343943-7	343943-8	343943-9	343943-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Date analysed	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Phosphorus - Total	mg/L	0.1	<0.05	1.0	0.2	0.06

Metals in Waters - Acid extractable					
Our Reference		343943-11	343943-12	343943-13	343943-14
Your Reference	UNITS	3365/SW205	3365/SW207	3365/SW210	3365/SW211
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water
Date prepared	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Date analysed	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Phosphorus - Total	mg/L	<0.1	<0.1	<0.1	<0.1

Miscellaneous Inorganics

Our Reference		343943-1	343943-2	343943-3	343943-4	343943-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW205	3365/GW204
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
Date analysed	-	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
Total Nitrogen in water	mg/L	0.3	<0.1	0.1	0.2	2.4
Phosphate as P in water	mg/L	<0.005	0.19	0.02	0.01	<0.005

Miscellaneous Inorganics

Our Reference		343943-6	343943-7	343943-8	343943-9	343943-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
Date analysed	-	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
Total Suspended Solids	mg/L	[NA]	[NA]	32	35	35
Total Nitrogen in water	mg/L	0.2	0.4	20	2.3	2.3
Phosphate as P in water	mg/L	0.074	0.006	0.74	<0.005	<0.005
Chlorophyll a	mg/m ³	[NA]	[NA]	10	190	1

Miscellaneous Inorganics

Our Reference		343943-11	343943-12	343943-13	343943-14	343943-15
Your Reference	UNITS	3365/SW205	3365/SW207	3365/SW210	3365/SW211	3365/GWDUP01
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
Date analysed	-	14/02/2024	14/02/2024	14/02/2024	14/02/2024	14/02/2024
Total Suspended Solids	mg/L	20	74	34	42	[NA]
Total Nitrogen in water	mg/L	0.3	0.4	0.4	0.3	[NA]
Phosphate as P in water	mg/L	0.01	0.01	0.01	0.006	[NA]
Chlorophyll a	mg/m ³	4	2	2	5	[NA]
pH	pH Units	[NA]	[NA]	[NA]	[NA]	4.8
Electrical Conductivity	µS/cm	[NA]	[NA]	[NA]	[NA]	1,900

Microbiological Testing						
Our Reference		343943-1	343943-2	343943-3	343943-4	343943-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW205	3365/GW204
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
Faecal Coliforms	cfu/100mL	<100	800	<100	<10	100

Microbiological Testing						
Our Reference		343943-6	343943-7	343943-8	343943-9	343943-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024	15/02/2024
E. coli	cfu/100mL	[NA]	[NA]	<100	<100	>10&<100
Faecal Coliforms	cfu/100mL	<1,000 NBO	<100	<100	<100	>10&<100

Microbiological Testing					
Our Reference		343943-11	343943-12	343943-13	343943-14
Your Reference	UNITS	3365/SW205	3365/SW207	3365/SW210	3365/SW211
Date Sampled		12/02/2024	12/02/2024	12/02/2024	12/02/2024
Type of sample		Water	Water	Water	Water
Date of testing	-	15/02/2024	15/02/2024	15/02/2024	15/02/2024
E. coli	cfu/100mL	<100	>10&<100	<100	<100
Faecal Coliforms	cfu/100mL	<100	>10&<100	<100	<100

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determined stoichiometrically from the base metal concentration.
Org-020	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-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			15/02/2024	8	15/02/2024	16/02/2024		15/02/2024	[NT]
Date analysed	-			16/02/2024	8	16/02/2024	19/02/2024		16/02/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	8	<10	<10	0	82	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	8	<10	<10	0	82	[NT]
Surrogate Dibromofluoromethane	%		Org-023	106	8	106	103	3	100	[NT]
Surrogate Toluene-d8	%		Org-023	98	8	97	98	1	99	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	93	8	95	92	3	100	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			15/02/2024	8	15/02/2024	15/02/2024		15/02/2024	[NT]
Date analysed	-			16/02/2024	8	16/02/2024	16/02/2024		16/02/2024	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	8	74	78	5	70	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	8	210	260	21	74	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	8	<100	120	18	93	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	8	120	110	9	70	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	8	220	310	34	74	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	8	<100	<100	0	93	[NT]
Surrogate o-Terphenyl	%		Org-020	95	8	73	79	8	105	[NT]

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			15/02/2024	8	15/02/2024	15/02/2024		15/02/2024	[NT]
Date analysed	-			16/02/2024	8	16/02/2024	16/02/2024		16/02/2024	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	106	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	115	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	132	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	108	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	118	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	112	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	100	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	127	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	109	8	65	81	22	123	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			15/02/2024	8	15/02/2024	15/02/2024		15/02/2024	[NT]
Date analysed	-			16/02/2024	8	16/02/2024	16/02/2024		16/02/2024	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	101	[NT]
HCB	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	121	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	102	[NT]
delta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	106	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	117	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	113	[NT]
Dieldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	122	[NT]
Endrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	94	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	106	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	90	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	103	8	62	78	23	117	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			15/02/2024	8	15/02/2024	15/02/2024		15/02/2024	[NT]
Date analysed	-			16/02/2024	8	16/02/2024	16/02/2024		16/02/2024	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	113	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	103	8	61	76	22	114	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	343943-8
Date prepared	-			19/02/2024	8	15/02/2024	15/02/2024		19/02/2024	15/02/2024
Date analysed	-			20/02/2024	8	15/02/2024	15/02/2024		20/02/2024	15/02/2024
Aluminium-Total	µg/L	10	Metals-022	<10	8	320	[NT]		111	75
Arsenic-Total	µg/L	1	Metals-022	<1	8	1	[NT]		102	101
Chromium-Total	µg/L	1	Metals-022	<1	8	1	[NT]		83	81
Copper-Total	µg/L	1	Metals-022	<1	8	5	[NT]		97	84
Iron-Total	µg/L	10	Metals-022	<10	8	3500	[NT]		115	[NT]
Mercury-Total	µg/L	0.05	Metals-021	<0.05	8	<0.05	<0.05	0	97	[NT]
Lead-Total	µg/L	1	Metals-022	<1	8	<1	[NT]		113	103
Selenium-Total	µg/L	1	Metals-022	<1	8	<1	[NT]		99	101
Zinc-Total	µg/L	1	Metals-022	<1	8	14	[NT]		89	84

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	343943-9
Date prepared	-			[NT]	12	15/02/2024	15/02/2024		[NT]	15/02/2024
Date analysed	-			[NT]	12	15/02/2024	15/02/2024		[NT]	15/02/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	12	250	260	4	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	12	2	2	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	12	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	12	<1	<1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	12	490	520	6	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	12	<0.05	[NT]		[NT]	72
Lead-Total	µg/L	1	Metals-022	[NT]	12	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	12	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	12	3	<1	100	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	17	15/02/2024	15/02/2024		[NT]	[NT]
Date analysed	-			[NT]	17	15/02/2024	15/02/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	17	380	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	17	2	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	17	1	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	17	3	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	17	980	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	17	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	17	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	17	12	[NT]		[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	343943-5
Date prepared	-			15/02/2024	12	15/02/2024	15/02/2024		15/02/2024	15/02/2024
Date analysed	-			15/02/2024	12	15/02/2024	15/02/2024		15/02/2024	15/02/2024
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	12	<0.1	<0.1	0	104	118

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	343943-8
Date prepared	-			14/02/2024	1	14/02/2024	14/02/2024		14/02/2024	14/02/2024
Date analysed	-			14/02/2024	1	14/02/2024	14/02/2024		14/02/2024	14/02/2024
Total Suspended Solids	mg/L	5	Inorg-019	<5	11	20	19	5	96	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	1	0.3	0.3	0	120	120
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	1	<0.005	[NT]		107	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	<1	11	4	[NT]		99	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	102	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	343943-11
Date prepared	-			[NT]	6	14/02/2024	14/02/2024		[NT]	14/02/2024
Date analysed	-			[NT]	6	14/02/2024	14/02/2024		[NT]	14/02/2024
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	6	0.2	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	6	0.074	0.077	4	[NT]	116
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	12	74	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	12	2	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	14/02/2024	14/02/2024		[NT]	[NT]
Date analysed	-			[NT]	11	14/02/2024	14/02/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.3	0.3	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	0.01	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	12	14/02/2024	14/02/2024		[NT]	[NT]
Date analysed	-			[NT]	12	14/02/2024	14/02/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	12	0.4	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	12	0.01	0.01	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Microbiology analysed by Sonic Food & Water Testing. Report No. W2403684 & W2403685

NBO: The presence of competing background organisms in the sample may have reduced the count.

The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

8 Metals in Waters - total - The PQL has been raised for #11-14 due to the sample matrix requiring dilution.

Appendix AI – Event 17 Data

Table 136: In situ water quality data and statistical summary for Crookhaven surface waters during Event 17.

PROJECT INFORMATION												
PROJECT NUMBER: P1203365				DATE: 13/03/2024								
CLIENT: Sealark Pty Ltd				SAMPLED BY: TR & RM								
SITE LOCATION: West Culburra												
IN SITU WATER QUALITY PARAMETERS												
Date	Bore / Location ID	Sample Type (S, D or T)	Time	Depth to Water (TOC)	Temp (°C)	pH	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% Sat)	EC µS/cm	Salinity (ppt)	Turbidity (ntu)
13/03/2024	SW201	S (Dry)			24.60	7.77	91.00	6.30	90.10	46700.00	31.05	6.89
13/03/2024	SW201	D (Dry)			24.60	7.77	90.30	6.29	90.00	47700.00	31.06	7.03
13/03/2024	SW202	S (Dry)			24.70	7.75	89.20	6.45	92.60	46600.00	31.02	5.61
13/03/2024	SW202	D (Dry)			23.50	7.87	91.70	6.57	92.40	50200.00	32.96	5.96
13/03/2024	SW203	S (Dry)			24.60	7.70	87.80	6.06	87.00	46600.00	31.69	6.16
13/03/2024	SW203	D (Dry)			23.60	7.89	90.40	6.59	94.00	50200.00	33.57	5.32
13/03/2024	SW204	S (Dry)			28.00	7.30	91.80	4.49	68.00	48600.00	34.35	120.00
13/03/2024	SW204	D (Dry)			27.50	7.29	88.10	4.58	69.10	57100.00	34.10	117.00
13/03/2024	SW205	S (Dry)			23.10	7.85	89.60	6.48	91.80	5200.00	34.02	5.61
13/03/2024	SW205	D (Dry)			23.00	7.85	90.30	6.39	90.40	51000.00	34.19	6.02
13/03/2024	SW206	S (Dry)			23.40	7.74	83.40	5.75	81.50	51700.00	32.74	4.43
13/03/2024	SW206	D (Dry)			22.90	7.78	84.10	6.13	86.80	51900.00	34.14	4.14
13/03/2024	SW207	S (Dry)			24.60	7.83	86.40	6.28	90.20	48700.00	31.78	6.41
13/03/2024	SW207	D (Dry)			22.50	7.78	88.90	6.44	90.70	52700.00	34.76	4.91
13/03/2024	SW208	S (Dry)			24.20	7.81	80.90	6.13	88.00	50038.00	32.78	6.71
13/03/2024	SW208	D (Dry)			21.40	7.97	89.30	6.50	90.50	54400.00	36.06	3.96
13/03/2024	SW209	S (Dry)			23.90	7.76	72.80	5.98	84.80	50900.00	33.39	8.64
13/03/2024	SW209	D (Dry)			23.20	7.88	76.40	6.30	89.50	50700.00	33.31	7.24
13/03/2024	SW210	S (Dry)			24.20	7.85	82.20	6.33	89.80	47700.00	31.10	5.03
13/03/2024	SW210	D (Dry)			24.20	7.85	84.50	6.29	89.30	47800.00	31.12	6.41
13/03/2024	SW211	S (Dry)			24.00	7.80	76.30	6.10	86.30	47600.00	31.00	6.13
13/03/2024	SW211	D (Dry)			24.00	7.80	77.40	6.05	85.60	47600.00	31.00	6.99
13/03/2024	SW212	S (Dry)			24.10	7.85	77.60	6.44	91.40	48100.00	31.40	5.96
13/03/2024	SW212	D (Dry)			23.70	7.85	79.50	6.39	90.30	48600.00	31.70	6.13
13/03/2024	SW213	S (Dry)			22.80	7.94	91.90	6.75	94.70	50700.00	33.35	15.34
13/03/2024	SW213	D (Dry)			22.60	7.94	93.80	6.70	93.90	51200.00	33.69	136.20
13/03/2024	SW214	S (Dry)			24.00	7.82	85.70	6.23	88.40	48000.00	31.33	5.80
13/03/2024	SW214	D (Dry)			23.80	7.80	87.50	6.01	85.00	48500.00	31.67	8.54
13/03/2024	SW215	S (Dry)			21.90	7.94	87.60	8.50	97.00	55700.00	33.54	1.80
13/03/2024	SW215	D (Dry)			20.90	7.98	88.10	6.95	96.20	55300.00	36.69	1.80
13/03/2024	SW216	S (Dry)			20.40	7.79	147.90	8.85	92.80	53400.00	35.30	1.24
13/03/2024	SW216	D (Dry)			20.00	8.01	132.30	7.01	95.00	54000.00	35.70	1.79
13/03/2024	SW217	S (Dry)			20.00	8.02	113.90	6.99	94.90	54500.00	36.13	2.30
13/03/2024	SW217	D (Dry)			20.00	8.02	113.50	6.99	94.80	54500.00	36.15	3.09
EVENT STATISTICAL SUMMARY												
Number of results					34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
Maximum Value					28.00	8.02	147.90	8.85	97.00	57100.00	36.69	136.20
Mean Value					23.35	7.82	90.65	6.42	89.20	49239.35	33.17	16.08
Median Value					23.65	7.84	88.10	6.36	90.25	50200.00	33.33	5.99
Minimum Value					20.00	7.29	72.80	4.49	68.00	5200.00	31.00	1.24

Table 139: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 17.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/DUP04	SW101	11 Mar 2024													0.43	0.002	0.001	0.003	2.8	
3365/SW101	SW101	11 Mar 2024	<100	130	240	<100	370	<1,000.0	<1,000.0	0.015	<0.2	15	1.3	1.0	8	0.23	0.002	<0.001	0.004	2.7
3365/SW102	SW102	11 Mar 2024	<10	290	220	<100	520			0.05	<0.2	1.7	0.1	<0.005	49	0.62	<0.001	<0.001	0.003	0.6
3365/SW103	SW103	11 Mar 2024	<10	90	<100	<100	90	<1,000.0	<1,000.0	0.001	<0.2	1.4	0.1	0.03	46	0.67	<0.001	0.001	0.004	0.98

Statistics																			
Number of Results	3	3	3	3	3	2	2	3	3	3	3	3	3	3	4	4	4	4	4
Number of Detects	0	3	2	0	3	0	0	3	0	3	3	2	3	4	2	2	4	4	4
Minimum Concentration	<10	90	<100	<100	90	<1,000	<1,000	0.001	<0.2	1.4	0.1	<0.005	8	0.23	<0.001	0.001	0.003	0.6	
Maximum Concentration	<100	290	240	<100	520	<1,000	<1,000	0.05	<0.2	15	1.3	1	49	0.67	0.002	0.001	0.004	2.8	
Average Concentration *	20	170	170	50	327	500	500	0.022	0.1	6	0.5	0.34	34	0.49	0.0012	0.00075	0.0035	1.8	
Median Concentration *	5	130	220	50	370	500	500	0.015	0.1	1.7	0.1	0.03	46	0.525	0.00125	0.00075	0.0035	1.84	

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ1	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																		
3365/DUP04	SW101	11 Mar 2024	<0.001	<0.00005	<0.001	0.013														
3365/SW101	SW101	11 Mar 2024	<0.001	<0.00005	<0.001	0.011	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW102	SW102	11 Mar 2024	0.001	<0.00005	<0.001	0.015	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW103	SW103	11 Mar 2024	0.001	<0.00005	<0.001	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	0.001	<0.00005	<0.001	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration	0.001	<0.00005	<0.001	0.015	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *	0.00075	0.000025	0.0005	0.012	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *	0.00075	0.000025	0.0005	0.012	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH															
	γ-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3365/DUP04	SW101	11 Mar 2024																		
3365/SW101	SW101	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW102	SW102	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW103	SW103	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date													
3365/DUP04	SW101	11 Mar 2024													
3365/SW101	SW101	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<100	93	230	<100 320
3365/SW102	SW102	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	140	360	<100 500
3365/SW103	SW103	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100 <50

Statistics															
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100 <50
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<2	<100	140	360	<100 500
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	1	20	86	213	50 282
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	1	5	93	230	50 320

* A Non Detect Multiplier of 0.5 has been applied.

Table 140: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event 17.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/DUP01	SW211	11 Mar 2024														0.12	0.007	<0.001	<0.001	0.32
3365/DUP02	SW203	11 Mar 2024														0.08	0.002	<0.001	<0.001	0.23
3365/SW201 W/1	SW201	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.2	0.05	0.02	14	0.15	0.003	0.001	0.002	0.46
3365/SW201 W/2	SW201	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.2	0.06	0.03	15	0.14	0.003	0.001	0.003	0.42
3365/SW202 W/1	SW202	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.2	<0.05	0.02	10	0.1	0.004	<0.001	0.002	0.32
3365/SW202 W/2	SW202	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.2	0.06	0.02	53	0.1	0.003	0.001	0.002	0.35
3365/SW203 W/1	SW203	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.2	0.05	0.02	12	0.07	0.003	0.001	0.001	0.22
3365/SW203 W/2	SW203	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.2	0.05	0.02	10	0.1	0.005	<0.001	0.002	0.27
3365/SW204 W/1	SW204	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.052	<0.2	0.5	0.1	0.01	590	0.2	0.004	0.001	0.002	0.74
3365/SW204 W/2	SW204	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.081	<0.2	0.6	0.1	0.008	2,400	0.27	0.005	0.001	<0.001	0.89
3365/SW205 W/1	SW205	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.002	<0.2	0.1	<0.05	0.02	23	0.12	0.006	<0.001	0.001	0.31
3365/SW205 W/2	SW205	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.1	<0.05	0.02	16	0.1	0.005	0.001	0.002	0.29
3365/SW206 W/1	SW206	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.2	<0.05	0.01	10	0.06	0.004	<0.001	0.001	0.16
3365/SW206 W/2	SW206	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.1	<0.05	0.02	12	0.1	0.004	0.001	0.001	0.24
3365/SW207 W/1	SW207	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.1	<0.05	0.02	14	0.14	0.005	0.001	0.002	0.36
3365/SW207 W/2	SW207	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.1	<0.05	0.02	12	0.16	0.004	<0.001	0.001	0.32
3365/SW208 W/1	SW208	11 Mar 2024	<10	<50	<100	<100	<50			0.001	<0.2	0.1	<0.05	0.01	18	0.11	0.006	0.001	0.001	0.3
3365/SW208 W/2	SW208	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.002	<0.2	0.1	<0.05	0.01	10	0.07	0.005	0.001	0.002	0.17
3365/SW209 W/1	SW209	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	0.1	<0.05	0.01	14	0.16	0.005	0.001	0.001	0.37
3365/SW209 W/2	SW209	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.1	<0.05	0.01	15	0.2	0.002	<0.001	0.003	0.39
3365/SW210 W/1	SW210	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.1	<0.05	0.02	12	0.12	0.005	<0.001	<0.001	0.26
3365/SW210 W/2	SW210	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	0.1	<0.05	0.02	14	0.16	0.006	0.001	0.001	0.35
3365/SW211 W/1	SW211	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	0.2	<0.05	0.01	7	0.11	0.006	0.002	0.002	0.29
3365/SW211 W/2	SW211	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.2	<0.05	0.02	10	0.1	0.007	<0.001	0.002	0.3
3365/SW212 W/1	SW212	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.1	<0.05	0.01	9	0.09	0.008	0.001	0.002	0.26
3365/SW212 W/2	SW212	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	0.1	<0.05	0.01	10	0.05	0.005	0.001	0.001	0.18
3365/SW213 W/1	SW213	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.002	<0.2	0.1	<0.05	0.02	11	0.1	0.006	0.001	<0.001	0.29
3365/SW213 W/2	SW213	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.1	0.06	0.01	22	0.19	0.005	0.001	0.001	0.41
3365/SW214 W/1	SW214	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.1	<0.05	0.01	12	0.06	0.006	<0.001	<0.001	0.2
3365/SW214 W/2	SW214	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	<0.001	<0.2	0.2	<0.05	0.01	12	0.11	0.006	<0.001	0.001	0.28
3365/SW215 W/1	SW215	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	<0.1	<0.05	0.01	6	<0.01	0.006	<0.001	<0.001	0.08
3365/SW215 W/2	SW215	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.1	<0.05	0.01	13	0.04	0.007	<0.001	<0.001	0.12
3365/SW216 W/1	SW216	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.002	<0.2	0.1	<0.05	0.01	10	0.06	0.008	0.001	<0.001	0.15
3365/SW216 W/2	SW216	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	0.2	<0.05	0.009	10	0.03	0.007	<0.001	0.003	0.14
3365/SW217 W/1	SW217	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	<0.001	<0.2	0.1	<0.05	0.01	16	0.04	0.007	<0.001	<0.001	0.18
3365/SW217 W/2	SW217	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	0.1	<0.05	0.009	16	0.03	0.007	0.001	<0.001	0.14

Statistics																		
Number of Results	34	34	34	34	34	33	33	34	34	34	34	34	34	36	36	36	36	36
Number of Detects	0	0	0	0	0	0	0	23	0	33	8	34	34	35	36	20	25	36
Minimum Concentration	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.1	0.05	0.008	6	<0.01	0.002	0.001	0.001	0.08
Maximum Concentration	<10	<50	<100	<100	<50	<100	<100	0.081	<0.2	0.6	0.1	0.03	2,400	0.27	0.008	0.002	0.003	0.89
Average Concentration *	5	25	50	50	25	28	28	0.0049	0.1	0.16	0.035	0.015	101	0.11	0.0052	0.00081	0.0013	0.3
Median Concentration *	5	25	50	50	25	50	50	0.001	0.1	0.1	0.025	0.01	12	0.1	0.005	0.001	0.001	0.29

* A Non Detect Multiplier of 0.5 has been applied.

[illegible][illegible][illegible]

* A Non Detect Multiplier of 0.5 has been applied.

[illegible]

Field ID	Location Code	Date
3365/DUP01	SW211	11 Mar 2024
3365/DUP02	SW203	11 Mar 2024
3365/SW201 W/1	SW201	11 Mar 2024
3365/SW201 W/2	SW201	11 Mar 2024
3365/SW202 W/1	SW202	11 Mar 2024
3365/SW202 W/2	SW202	11 Mar 2024
3365/SW203 W/1	SW203	11 Mar 2024
3365/SW203 W/2	SW203	11 Mar 2024
3365/SW204 W/1	SW204	11 Mar 2024
3365/SW204 W/2	SW204	11 Mar 2024
3365/SW205 W/1	SW205	11 Mar 2024
3365/SW205 W/2	SW205	11 Mar 2024
3365/SW206 W/1	SW206	11 Mar 2024
3365/SW206 W/2	SW206	11 Mar 2024
3365/SW207 W/1	SW207	11 Mar 2024
3365/SW207 W/2	SW207	11 Mar 2024
3365/SW208 W/1	SW208	11 Mar 2024
3365/SW208 W/2	SW208	11 Mar 2024
3365/SW209 W/1	SW209	11 Mar 2024
3365/SW209 W/2	SW209	11 Mar 2024
3365/SW210 W/1	SW210	11 Mar 2024
3365/SW210 W/2	SW210	11 Mar 2024
3365/SW211 W/1	SW211	11 Mar 2024
3365/SW211 W/2	SW211	11 Mar 2024
3365/SW212 W/1	SW212	11 Mar 2024
3365/SW212 W/2	SW212	11 Mar 2024
3365/SW213 W/1	SW213	11 Mar 2024
3365/SW213 W/2	SW213	11 Mar 2024
3365/SW214 W/1	SW214	11 Mar 2024
3365/SW214 W/2	SW214	11 Mar 2024
3365/SW215 W/1	SW215	11 Mar 2024
3365/SW215 W/2	SW215	11 Mar 2024
3365/SW216 W/1	SW216	11 Mar 2024
3365/SW216 W/2	SW216	11 Mar 2024
3365/SW217 W/1	SW217	11 Mar 2024
3365/SW217 W/2	SW217	11 Mar 2024

[illegible]

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
EQ	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date													
3365/DUP01	SW211	11 Mar 2024													
3365/DUP02	SW203	11 Mar 2024													
3365/SW201 W/1	SW201	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW201 W/2	SW201	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW202 W/1	SW202	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW202 W/2	SW202	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW203 W/1	SW203	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW203 W/2	SW203	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW204 W/1	SW204	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW204 W/2	SW204	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW205 W/1	SW205	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW205 W/2	SW205	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW206 W/1	SW206	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW206 W/2	SW206	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW207 W/1	SW207	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW207 W/2	SW207	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW208 W/1	SW208	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW208 W/2	SW208	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW209 W/1	SW209	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW209 W/2	SW209	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW210 W/1	SW210	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW210 W/2	SW210	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW211 W/1	SW211	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW211 W/2	SW211	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW212 W/1	SW212	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW212 W/2	SW212	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW213 W/1	SW213	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW213 W/2	SW213	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW214 W/1	SW214	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW214 W/2	SW214	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW215 W/1	SW215	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW215 W/2	SW215	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW216 W/1	SW216	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW216 W/2	SW216	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW217 W/1	SW217	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW217 W/2	SW217	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50

Statistics														
Number of Results	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	5	25	50	50	25
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	5	25	50	50	25

* A Non Detect Multiplier of 0.5 has been applied.

Table 141: Laboratory water analysis and statistical summary for Lake Wollumbulla surface waters during Event 17.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/DUP03	SW303	11 Mar 2024													0.16	0.003	<0.001	<0.001	0.98	
3365/SW303 W/1	SW303	11 Mar 2024	<10	<50	<100	<100	<50	1,100.0	1,100.0	0.008	<0.2	0.7	0.05	<0.005	11	0.06	0.002	0.006	0.001	0.59
3365/SW303 W/2	SW303	11 Mar 2024	<10	<50	<100	<100	<50	9,300.0	9,300.0	0.008	<0.2	0.7	0.07	<0.005	16	0.12	0.002	<0.001	<0.001	0.64
3365/SW304 W/1	SW304	11 Mar 2024	<10	<50	<100	<100	<50	100	100	0.041	<0.2	1.3	0.08	<0.005	160	0.86	0.002	0.003	0.002	16
3365/SW304 W/2	SW304	11 Mar 2024	<10	<50	<100	<100	<50	50	50	0.025	<0.2	1.4	0.09	<0.005	170	1.1	0.003	0.004	0.003	22
3365/SW305 W/1	SW305	11 Mar 2024	<10	270	320	<100	590			0.035	<0.2	0.7	<0.05	<0.005	8	0.11	0.002	<0.001	<0.001	0.87
3365/SW305 W/2	SW305	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.005	<0.2	0.7	<0.05	<0.005	7	0.02	0.001	<0.001	<0.001	0.31
3365/SW306 W/1	SW306	11 Mar 2024	<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	0.7	0.07	<0.005	6	0.33	0.003	<0.001	<0.001	0.87
3365/SW306 W/2	SW306	11 Mar 2024	<10	<50	<100	<100	<50	<10	<10	0.002	<0.2	0.7	0.05	<0.005	12	0.22	0.003	<0.001	<0.001	0.51
3365/SW307 W/1	SW307	11 Mar 2024	<10	820	120	<100	940	260	260	0.034	<0.2	0.9	<0.05	<0.005	11	0.17	<0.001	<0.001	0.003	1.3
3365/SW307 W/2	SW307	11 Mar 2024	<10	680	110	<100	780	<10	<10	0.045	<0.2	0.9	0.05	<0.005	9	0.16	0.001	<0.001	0.042	3.4
3365/SW308 W/1	SW308	11 Mar 2024	<10	<50	<100	<100	<50			0.005	<0.2	1.6	<0.05	<0.005	20	0.18	0.002	<0.001	<0.001	0.98
3365/SW308 W/2	SW308	11 Mar 2024	<10	<50	<100	<100	<50	1,000.0	1,000.0	0.003	<0.2	1.2	<0.05	<0.005	51	0.05	0.001	<0.001	<0.001	0.82

Statistics																			
Number of Results	12	12	12	12	12	10	10	12	12	12	12	12	12	12	13	13	13	13	13
Number of Detects	0	3	3	0	3	6	6	12	0	12	7	0	12	13	12	3	5	13	
Minimum Concentration	<10	<50	<100	<100	<50	<10	<10	0.001	<0.2	0.7	0.05	<0.005	6	0.02	0.001	<0.001	0.001	0.31	
Maximum Concentration	<10	820	320	<100	940	9,300	9,300	0.045	<0.2	1.6	0.09	<0.005	170	1.1	0.003	0.006	0.042	22	
Average Concentration *	5	166	83	50	211	1,188	1,188	0.018	0.1	0.96	0.049	0.0025	40	0.27	0.002	0.0014	0.0042	3.8	
Median Concentration *	5	25	50	50	25	75	75	0.008	0.1	0.8	0.05	0.0025	11.5	0.16	0.002	0.0005	0.0005	0.87	

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																		
3365/DUP03	SW303	11 Mar 2024	<0.001	<0.00005	<0.001	0.005														
3365/SW303 W/1	SW303	11 Mar 2024	<0.001	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW303 W/2	SW303	11 Mar 2024	<0.001	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW304 W/1	SW304	11 Mar 2024	0.002	<0.00005	<0.001	0.002	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW304 W/2	SW304	11 Mar 2024	0.002	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW305 W/1	SW305	11 Mar 2024	<0.001	<0.00005	<0.001	0.003	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW305 W/2	SW305	11 Mar 2024	<0.001	<0.00005	<0.001	<0.001	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW306 W/1	SW306	11 Mar 2024	<0.001	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW306 W/2	SW306	11 Mar 2024	<0.001	<0.00005	<0.001	0.001	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW307 W/1	SW307	11 Mar 2024	<0.001	<0.00005	<0.001	0.011	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW307 W/2	SW307	11 Mar 2024	<0.001	<0.00005	<0.001	0.03	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW308 W/1	SW308	11 Mar 2024	<0.001	<0.00005	<0.001	0.004	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW308 W/2	SW308	11 Mar 2024	<0.001	<0.00005	<0.001	0.004	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	2	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.001	<0.00005	<0.001	0.001	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration	0.002	<0.00005	<0.001	0.03	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *	0.00073	0.000025	0.0005	0.0065	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *	0.0005	0.000025	0.0005	0.005	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

EQ					PAH															
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3365/DUP03	SW303	11 Mar 2024																		
3365/SW303 W/1	SW303	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW303 W/2	SW303	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW304 W/1	SW304	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW304 W/2	SW304	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW305 W/1	SW305	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW305 W/2	SW305	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW306 W/1	SW306	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW306 W/2	SW306	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW307 W/1	SW307	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW307 W/2	SW307	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW308 W/1	SW308	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW308 W/2	SW308	11 Mar 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results			12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzol(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQI	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date														
3365/DUP03	SW303	11 Mar 2024														
3365/SW303 W/1	SW303	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW303 W/2	SW303	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW304 W/1	SW304	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW304 W/2	SW304	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW305 W/1	SW305	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	170	380	140	690
3365/SW305 W/2	SW305	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW306 W/1	SW306	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW306 W/2	SW306	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW307 W/1	SW307	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	940	<100	940
3365/SW307 W/2	SW307	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	770	<100	770
3365/SW308 W/1	SW308	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW308 W/2	SW308	11 Mar 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50

Statistics															
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Number of Detects	0	0	0	0	0	0	0	0	0	0	1	3	1	3	
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50	
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	170	940	140	940	
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	5	37	212	58	219	
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	5	25	50	50	25	

* A Non Detect Multiplier of 0.5 has been applied.

Table 142: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 17.

	Biological	Inorganics				
	Faecal Coliforms	Electrical Conductivity (Non Compensated)	Nitrogen (Total)	pH (Lab)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	µS/cm	mg/L	-	mg/L	mg/L
EQL	1	1	0.1		0.05	0.005

Field ID	Location Code	Date						
3365/GW201	GW201	11 Mar 2024	<10		0.1		0.2	<0.005
3365/GW202	GW202	11 Mar 2024	<100		0.1		0.2	0.19
3365/GW203	GW203	11 Mar 2024	<1,000.0		<0.1		0.05	0.008
3365/GW204	GW204	11 Mar 2024	1,500.0		0.1		3.1	0.01
3365/GW205	GW205	11 Mar 2024	<1,000.0		0.4		0.08	<0.005
3365/GW206	GW206	11 Mar 2024			0.1		0.1	0.064
3365/GW207	GW207	11 Mar 2024			0.3		<0.05	<0.005
3365/GW DUP01	GW202	11 Mar 2024		4,000		5.5		

Statistics

Number of Results	5	1	7	1	7	7
Number of Detects	1	1	6	1	6	4
Minimum Concentration	<10	4,000	0.1	5.5	0.05	<0.005
Maximum Concentration	1,500	4,000	0.4	5.5	3.1	0.19
Average Concentration *	511		0.16		0.54	0.04
Median Concentration *	500	4,000	0.1	5.5	0.1	0.008

* A Non Detect Multiplier of 0.5 has been applied.

Appendix AJ – Event 17 Documents

SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0											
Name	P1203365 – Water Sampling, West Culburra, NSW										
Martens Contact Officer	Trystan Richards					Contact Email	trichards@martens.com.au				
Sampling and Shipping	Sample Date	11.03.2024 – 13.03.2024		Dispatch Date	14.03.2024		Turnaround Time		Standard		
	Our Reference	P1203365COC38V01				Shipping Method (X)	Hand	X	Post		Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt	Phone	02 9910 6200	Fax		Email	samplereceipt@envirolabservices.com.au			
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address		trichards@martens.com.au, bmonaghan@martens.com.au and CC.ANorris@martens.com.au		

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coll.	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
1 3365/GW201						X	
2 3365/GW202						X	
3 3365/GW203						X	
4 3365/GW204						X	
5 3365/GW205						X	
6 3365/GW206						X	
7 3365/GW207						X	
8 3365/SW101	X	X	X	X			
9 3365/SW102	X	X	X	X			

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 346399

Date Received: 14/3/24
Time Received: 0900
Received By: EW
Temp: Cool/Ambient
Cooling: Icepack
Security: Intact/Broken/None

Head Office
Suite 201, 20 George Street
Hornsby NSW 2077, Australia
Ph 02 9476 9999 Fax 02 9476 8767

> mail@martens.com.au
> www.martens.com.au
MARTENS & ASSOCIATES P/L
ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coll.	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
10 3365/SW103	X	X	X	X			
11 3365/SW201 W/1	X	X	X	X			
12 3365/SW201 W/2	X	X	X	X			
13 3365/SW202 W/1	X	X	X	X			
14 3365/SW202 W/2	X	X	X	X			
15 3365/SW203 W/1	X	X	X	X			
16 3365/SW203 W/2	X	X	X	X			
17 3365/SW204 W/1	X	X	X	X			
18 3365/SW204 W/2	X	X	X	X			
19 3365/SW205 W/1	X	X	X	X			
20 3365/SW205 W/2	X	X	X	X			
21 3365/SW206 W/1	X	X	X	X			
22 3365/SW206 W/2	X	X	X	X			
23 3365/SW207 W/1	X	X	X	X			
24 3365/SW207 W/2	X	X	X	X			
25 3365/SW208 W/1	X	X	X	X			
26 3365/SW208 W/2	X	X	X	X			
27 3365/SW209 W/1	X	X	X	X			
28 3365/SW209 W/2	X	X	X	X			
29 3365/SW210 W/1	X	X	X	X			
30 3365/SW210 W/2	X	X	X	X			
31 3365/SW211 W/1	X	X	X	X			
32 3365/SW211 W/2	X	X	X	X			
33 3365/SW212 W/1	X	X	X	X			
34 3365/SW212 W/2	X	X	X	X			
35 3365/SW213 W/1	X	X	X	X			
36 3365/SW213 W/2	X	X	X	X			
37 3365/SW214 W/1	X	X	X	X			
38 3365/SW214 W/2	X	X	X	X			

SOIL ANALYSIS CHAIN OF CUSTODY

Page 3 of 3

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coll,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
39 3365/SW215 W/1	X	X	X	X			
40 3365/SW215 W/2	X	X	X	X			
41 3365/SW216 W/1	X	X	X	X			
42 3365/SW216 W/2	X	X	X	X			
43 3365/SW217 W/1	X	X	X	X			
44 3365/SW217 W/2	X	X	X	X			
45 3365/SW303 W/1	X	X	X	X			
46 3365/SW303 W/2	X	X	X	X			
47 3365/SW304 W/1	X	X	X	X			
48 3365/SW304 W/2	X	X	X	X			
49 3365/SW305 W/1	X	X	X	X			
50 3365/SW305 W/2	X	X	X	X			
51 3365/SW306 W/1	X	X	X	X			
52 3365/SW306 W/2	X	X	X	X			
53 3365/SW307 W/1	X	X	X	X			
54 3365/SW307 W/2	X	X	X	X			
55 3365/SW308 W/1	X	X	X	X			
56 3365/SW308 W/2	X	X	X	X			
57 3365/DUP01	X						
58 3365/DUP02	X						
59 3365/DUP03	X						
60 3365/DUP04	X						
61 3365/GW DUP01					X		

346399

1413

EW

CERTIFICATE OF ANALYSIS 346399

Client Details

Client	Martens & Associates Pty Ltd
Attention	Trystan Richards
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	61 Water
Date samples received	14/03/2024
Date completed instructions received	14/03/2024

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	21/03/2024
Date of Issue	21/03/2024
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Diego Bigolin, Inorganics Supervisor
 Dragana Tomas, Senior Chemist
 Greta Petzold, Operation Manager
 Loren Bardwell, Development Chemist
 Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH in Water (C6-C9) NEPM

Our Reference		346399-8	346399-9	346399-10	346399-11	346399-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<100	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<100	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	101	103	102	94	99
Surrogate Toluene-d8	%	100	100	100	97	99
Surrogate 4-Bromofluorobenzene	%	101	103	103	101	102

vTRH in Water (C6-C9) NEPM

Our Reference		346399-13	346399-14	346399-15	346399-16	346399-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	95	101	101	98
Surrogate Toluene-d8	%	99	97	99	99	98
Surrogate 4-Bromofluorobenzene	%	102	100	103	103	102

vTRH in Water (C6-C9) NEPM

Our Reference		346399-18	346399-19	346399-20	346399-21	346399-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	100	99	99	100	99
Surrogate Toluene-d8	%	99	100	98	98	99
Surrogate 4-Bromofluorobenzene	%	102	102	103	102	101

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

vTRH in Water (C6-C9) NEPM

Our Reference		346399-23	346399-24	346399-25	346399-26	346399-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	99	99	99	95	97
Surrogate Toluene-d8	%	99	98	98	96	99
Surrogate 4-Bromofluorobenzene	%	102	101	101	98	101

vTRH in Water (C6-C9) NEPM

Our Reference		346399-28	346399-29	346399-30	346399-31	346399-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	99	98	103	96	102
Surrogate Toluene-d8	%	97	98	99	96	98
Surrogate 4-Bromofluorobenzene	%	101	95	102	92	102

vTRH in Water (C6-C9) NEPM

Our Reference		346399-33	346399-34	346399-35	346399-36	346399-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	102	102	101	101	101
Surrogate Toluene-d8	%	99	98	97	99	98
Surrogate 4-Bromofluorobenzene	%	99	101	100	100	99

vTRH in Water (C6-C9) NEPM

Our Reference		346399-38	346399-39	346399-40	346399-41	346399-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	100	101	100	100	101
Surrogate Toluene-d8	%	98	98	98	97	98
Surrogate 4-Bromofluorobenzene	%	101	101	100	100	100

vTRH in Water (C6-C9) NEPM

Our Reference		346399-43	346399-44	346399-45	346399-46	346399-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	100	97	101	98	100
Surrogate Toluene-d8	%	98	96	97	100	97
Surrogate 4-Bromofluorobenzene	%	99	92	98	97	99

vTRH in Water (C6-C9) NEPM

Our Reference		346399-48	346399-49	346399-50	346399-51	346399-52
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	96	101	101	95	99
Surrogate Toluene-d8	%	96	97	97	95	100
Surrogate 4-Bromofluorobenzene	%	97	98	98	92	98

vTRH in Water (C6-C9) NEPM					
Our Reference		346399-53	346399-54	346399-55	346399-56
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water
Date extracted	-	19/03/2024	19/03/2024	19/03/2024	19/03/2024
Date analysed	-	20/03/2024	20/03/2024	20/03/2024	20/03/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	98	97	99	98
Surrogate Toluene-d8	%	99	98	97	98
Surrogate 4-Bromofluorobenzene	%	98	99	97	93

svTRH (C10-C40) in Water						
Our Reference	UNITS	346399-8	346399-9	346399-10	346399-11	346399-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	16/03/2024	16/03/2024	16/03/2024	16/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	93	140	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	230	360	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	320	500	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	130	290	90	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	240	220	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	370	520	90	<50	<50
Surrogate o-Terphenyl	%	94	96	85	78	78

svTRH (C10-C40) in Water						
Our Reference	UNITS	346399-13	346399-14	346399-15	346399-16	346399-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	16/03/2024	16/03/2024	16/03/2024	16/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	82	89	84	92	79

svTRH (C10-C40) in Water

Our Reference		346399-18	346399-19	346399-20	346399-21	346399-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	16/03/2024	16/03/2024	16/03/2024	16/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	83	89	92	80	93

svTRH (C10-C40) in Water

Our Reference		346399-23	346399-24	346399-25	346399-26	346399-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	16/03/2024	16/03/2024	16/03/2024	16/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	95	92	90	90	85

svTRH (C10-C40) in Water

Our Reference		346399-28	346399-29	346399-30	346399-31	346399-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	16/03/2024	16/03/2024	16/03/2024	16/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	84	78	79	87	78

svTRH (C10-C40) in Water

Our Reference		346399-33	346399-34	346399-35	346399-36	346399-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	16/03/2024	16/03/2024	16/03/2024	16/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	85	92	86	80	85

svTRH (C10-C40) in Water

Our Reference		346399-38	346399-39	346399-40	346399-41	346399-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	16/03/2024	16/03/2024	15/03/2024	15/03/2024	15/03/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	86	94	98	104	123

svTRH (C10-C40) in Water

Our Reference		346399-43	346399-44	346399-45	346399-46	346399-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	93	101	99	106	79

svTRH (C10-C40) in Water

Our Reference		346399-48	346399-49	346399-50	346399-51	346399-52
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	170	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	380	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	140	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	690	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	270	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	320	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	590	<50	<50	<50
Surrogate o-Terphenyl	%	81	99	91	82	86

svTRH (C10-C40) in Water

Our Reference		346399-53	346399-54	346399-55	346399-56
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	16/03/2024	16/03/2024	16/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	940	770	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	940	770	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	820	680	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	120	110	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	940	780	<50	<50
Surrogate o-Terphenyl	%	116	97	103	100

PAHs in Water						
Our Reference		346399-8	346399-9	346399-10	346399-11	346399-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	109	98	94	96	97

PAHs in Water						
Our Reference		346399-13	346399-14	346399-15	346399-16	346399-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	101	105	106	121	105

PAHs in Water						
Our Reference		346399-18	346399-19	346399-20	346399-21	346399-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	103	103	111	99	116

PAHs in Water						
Our Reference		346399-23	346399-24	346399-25	346399-26	346399-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	109	115	113	108	108

PAHs in Water						
Our Reference		346399-28	346399-29	346399-30	346399-31	346399-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	104	93	103	106	96

PAHs in Water						
Our Reference		346399-33	346399-34	346399-35	346399-36	346399-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	98	112	112	100	110

PAHs in Water						
Our Reference		346399-38	346399-39	346399-40	346399-41	346399-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	109	114	114	115	106

PAHs in Water						
Our Reference		346399-43	346399-44	346399-45	346399-46	346399-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	104	110	105	98	89

PAHs in Water						
Our Reference		346399-48	346399-49	346399-50	346399-51	346399-52
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	87	95	97	89	97

PAHs in Water					
Our Reference		346399-53	346399-54	346399-55	346399-56
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	88	75	100	96

Organochlorine Pesticides in Water						
Our Reference	UNITS	346399-8	346399-9	346399-10	346399-11	346399-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	107	102	92	93	91

Organochlorine Pesticides in Water						
Our Reference		346399-13	346399-14	346399-15	346399-16	346399-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	96	92	98	109	99

Organochlorine Pesticides in Water						
Our Reference		346399-18	346399-19	346399-20	346399-21	346399-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	98	102	106	97	97

Organochlorine Pesticides in Water						
Our Reference		346399-23	346399-24	346399-25	346399-26	346399-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	105	107	104	90	98

Organochlorine Pesticides in Water						
Our Reference		346399-28	346399-29	346399-30	346399-31	346399-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	98	94	99	102	81

Organochlorine Pesticides in Water						
Our Reference		346399-33	346399-34	346399-35	346399-36	346399-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	79	110	107	97	104

Organochlorine Pesticides in Water						
Our Reference		346399-38	346399-39	346399-40	346399-41	346399-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	93	104	94	109	103

Organochlorine Pesticides in Water						
Our Reference		346399-43	346399-44	346399-45	346399-46	346399-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	98	100	100	100	88

Organochlorine Pesticides in Water						
Our Reference		346399-48	346399-49	346399-50	346399-51	346399-52
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	87	96	102	92	105

Organochlorine Pesticides in Water					
Our Reference		346399-53	346399-54	346399-55	346399-56
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	95	84	101	104

PCBs in Water						
Our Reference	UNITS	346399-8	346399-9	346399-10	346399-11	346399-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	101	95	88	89	78

PCBs in Water						
Our Reference	UNITS	346399-13	346399-14	346399-15	346399-16	346399-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	96	101	94	109	98

PCBs in Water						
Our Reference		346399-18	346399-19	346399-20	346399-21	346399-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	96	98	102	92	104

PCBs in Water						
Our Reference		346399-23	346399-24	346399-25	346399-26	346399-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	103	104	101	95	95

PCBs in Water						
Our Reference		346399-28	346399-29	346399-30	346399-31	346399-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	95	84	96	97	88

PCBs in Water						
Our Reference		346399-33	346399-34	346399-35	346399-36	346399-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	78	102	102	89	96

PCBs in Water						
Our Reference		346399-38	346399-39	346399-40	346399-41	346399-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	98	102	102	103	98

PCBs in Water						
Our Reference		346399-43	346399-44	346399-45	346399-46	346399-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	89	98	97	94	82

PCBs in Water						
Our Reference		346399-48	346399-49	346399-50	346399-51	346399-52
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	81	90	90	73	92

PCBs in Water					
Our Reference		346399-53	346399-54	346399-55	346399-56
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water
Date extracted	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Aroclor 1016	µg/L	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	87	74	93	90

All metals in water - total

Our Reference		346399-8	346399-9	346399-10	346399-11	346399-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	230	620	670	150	140
Arsenic-Total	µg/L	2	<1	<1	3	3
Chromium-Total	µg/L	<1	<1	1	1	1
Copper-Total	µg/L	4	3	4	2	3
Iron-Total	µg/L	2,700	600	980	460	420
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	1	1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	5	5
Zinc-Total	µg/L	11	15	10	3	3

All metals in water - total

Our Reference		346399-13	346399-14	346399-15	346399-16	346399-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	100	100	70	100	200
Arsenic-Total	µg/L	4	3	3	5	4
Chromium-Total	µg/L	<1	1	1	<1	1
Copper-Total	µg/L	2	2	1	2	2
Iron-Total	µg/L	320	350	220	270	740
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	4	5	4	4	4
Zinc-Total	µg/L	3	3	1	4	8

All metals in water - total						
Our Reference		346399-18	346399-19	346399-20	346399-21	346399-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	270	120	100	60	100
Arsenic-Total	µg/L	5	6	5	4	4
Chromium-Total	µg/L	1	<1	1	<1	1
Copper-Total	µg/L	<1	1	2	1	1
Iron-Total	µg/L	890	310	290	160	240
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	4	5	5	5	5
Zinc-Total	µg/L	5	2	3	3	2

All metals in water - total						
Our Reference		346399-23	346399-24	346399-25	346399-26	346399-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	140	160	110	70	160
Arsenic-Total	µg/L	5	4	6	5	5
Chromium-Total	µg/L	1	<1	1	1	1
Copper-Total	µg/L	2	1	1	2	1
Iron-Total	µg/L	360	320	300	170	370
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	4	4	4	2	1
Zinc-Total	µg/L	4	4	3	2	4

All metals in water - total						
Our Reference		346399-28	346399-29	346399-30	346399-31	346399-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	200	120	160	110	100
Arsenic-Total	µg/L	2	5	6	6	7
Chromium-Total	µg/L	<1	<1	1	2	<1
Copper-Total	µg/L	3	<1	1	2	2
Iron-Total	µg/L	390	260	350	290	300
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	1	1	2	1	1
Zinc-Total	µg/L	5	3	3	6	4

All metals in water - total						
Our Reference		346399-33	346399-34	346399-35	346399-36	346399-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	90	50	100	190	60
Arsenic-Total	µg/L	8	5	6	5	6
Chromium-Total	µg/L	1	1	1	1	<1
Copper-Total	µg/L	2	1	<1	1	<1
Iron-Total	µg/L	260	180	290	410	200
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	2	2	2	2	1
Zinc-Total	µg/L	3	15	<1	<1	<1

All metals in water - total

Our Reference		346399-38	346399-39	346399-40	346399-41	346399-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	110	<10	40	60	30
Arsenic-Total	µg/L	6	6	7	8	7
Chromium-Total	µg/L	<1	<1	<1	1	<1
Copper-Total	µg/L	1	<1	<1	<1	3
Iron-Total	µg/L	280	80	120	150	140
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	2	2	3	3	2
Zinc-Total	µg/L	2	2	9	3	17

All metals in water - total

Our Reference		346399-43	346399-44	346399-45	346399-46	346399-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	40	30	60	120	860
Arsenic-Total	µg/L	7	7	2	2	2
Chromium-Total	µg/L	<1	1	6	<1	3
Copper-Total	µg/L	<1	<1	1	<1	2
Iron-Total	µg/L	180	140	590	640	16,000
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	2
Selenium-Total	µg/L	3	3	<1	<1	<1
Zinc-Total	µg/L	4	<1	7	5	2

All metals in water - total

Our Reference		346399-48	346399-49	346399-50	346399-51	346399-52
Your Reference	UNITS	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	1,100	110	20	330	220
Arsenic-Total	µg/L	3	2	1	3	3
Chromium-Total	µg/L	4	<1	<1	<1	<1
Copper-Total	µg/L	3	<1	<1	<1	<1
Iron-Total	µg/L	22,000	870	310	870	510
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	2	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	7	3	<1	5	1

All metals in water - total

Our Reference		346399-53	346399-54	346399-55	346399-56	346399-57
Your Reference	UNITS	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2	3365/DUP01
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	170	160	180	50	120
Arsenic-Total	µg/L	<1	1	2	1	7
Chromium-Total	µg/L	<1	<1	<1	<1	<1
Copper-Total	µg/L	3	42	<1	<1	<1
Iron-Total	µg/L	1,300	3,400	980	820	320
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	3
Zinc-Total	µg/L	11	30	4	4	4

All metals in water - total				
Our Reference		346399-58	346399-59	346399-60
Your Reference	UNITS	3365/DUP02	3365/DUP03	3365/DUP04
Sampling Period Dates		11/03/2024- 13/03/2024	11/03/2024- 13/03/2024	11/03/2024- 13/03/2024
Type of sample		Water	Water	Water
Date prepared	-	18/03/2024	18/03/2024	18/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024
Aluminium-Total	µg/L	80	160	430
Arsenic-Total	µg/L	2	3	2
Chromium-Total	µg/L	<1	<1	1
Copper-Total	µg/L	<1	<1	3
Iron-Total	µg/L	230	980	2,800
Mercury-Total	µg/L	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1
Zinc-Total	µg/L	1	5	13

Metals in Waters - Acid extractable

Our Reference		346399-1	346399-2	346399-3	346399-4	346399-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.2	0.2	0.05	3.1	0.08

Metals in Waters - Acid extractable

Our Reference		346399-6	346399-7	346399-8	346399-9	346399-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.1	<0.05	1.3	0.1	0.1

Metals in Waters - Acid extractable

Our Reference		346399-11	346399-12	346399-13	346399-14	346399-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.05	0.06	<0.05	0.06	0.05

Metals in Waters - Acid extractable

Our Reference		346399-16	346399-17	346399-18	346399-19	346399-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.05	0.1	0.1	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		346399-21	346399-22	346399-23	346399-24	346399-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		346399-26	346399-27	346399-28	346399-29	346399-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		346399-31	346399-32	346399-33	346399-34	346399-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		346399-36	346399-37	346399-38	346399-39	346399-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.06	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		346399-41	346399-42	346399-43	346399-44	346399-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW303 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	0.05

Metals in Waters - Acid extractable

Our Reference		346399-46	346399-47	346399-48	346399-49	346399-50
Your Reference	UNITS	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.07	0.08	0.09	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		346399-51	346399-52	346399-53	346399-54	346399-55
Your Reference	UNITS	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Date analysed	-	18/03/2024	18/03/2024	18/03/2024	18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.07	0.05	<0.05	0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		346399-56
Your Reference	UNITS	3365/SW308 W/2
Sampling Period Dates		11/03/2024-13/03/2024
Type of sample		Water
Date prepared	-	15/03/2024
Date analysed	-	18/03/2024
Phosphorus - Total	mg/L	<0.05

Miscellaneous Inorganics

Our Reference		346399-1	346399-2	346399-3	346399-4	346399-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Nitrogen in water	mg/L	0.1	0.1	<0.1	0.1	0.4
Phosphate as P in water	mg/L	<0.005	0.19	0.008	0.01	<0.005

Miscellaneous Inorganics

Our Reference		346399-6	346399-7	346399-8	346399-9	346399-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	[NA]	[NA]	8	49	46
Total Nitrogen in water	mg/L	0.1	0.3	15	1.7	1.4
Phosphate as P in water	mg/L	0.064	<0.005	1.0	<0.005	0.03
Chlorophyll a	mg/m ³	[NA]	[NA]	15	50	1

Miscellaneous Inorganics

Our Reference		346399-11	346399-12	346399-13	346399-14	346399-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	14	15	10	53	12
Total Nitrogen in water	mg/L	0.2	0.2	0.2	0.2	0.2
Phosphate as P in water	mg/L	0.02	0.03	0.02	0.02	0.02
Chlorophyll a	mg/m ³	1	1	<1	1	<1

Miscellaneous Inorganics

Our Reference		346399-16	346399-17	346399-18	346399-19	346399-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	10	590	2,400	23	16
Total Nitrogen in water	mg/L	0.2	0.5	0.6	0.1	0.1
Phosphate as P in water	mg/L	0.02	0.01	0.008	0.02	0.02
Chlorophyll a	mg/m ³	1	52	81	2	<1

Miscellaneous Inorganics

Our Reference		346399-21	346399-22	346399-23	346399-24	346399-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	10	12	14	12	18
Total Nitrogen in water	mg/L	0.2	0.1	0.1	0.1	0.1
Phosphate as P in water	mg/L	0.01	0.02	0.02	0.02	0.01
Chlorophyll a	mg/m ³	<1	<1	<1	<1	1

Miscellaneous Inorganics

Our Reference		346399-26	346399-27	346399-28	346399-29	346399-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	10	14	15	12	14
Total Nitrogen in water	mg/L	0.1	0.1	0.1	0.1	0.1
Phosphate as P in water	mg/L	0.01	0.01	0.01	0.02	0.02
Chlorophyll a	mg/m ³	2	1	2	2	1

Miscellaneous Inorganics						
Our Reference		346399-31	346399-32	346399-33	346399-34	346399-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	7	10	9	10	11
Total Nitrogen in water	mg/L	0.2	0.2	0.1	0.1	0.1
Phosphate as P in water	mg/L	0.01	0.02	0.01	0.01	0.02
Chlorophyll a	mg/m ³	1	1	1	1	2

Miscellaneous Inorganics						
Our Reference		346399-36	346399-37	346399-38	346399-39	346399-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	22	12	12	6	13
Total Nitrogen in water	mg/L	0.1	0.1	0.2	<0.1	0.1
Phosphate as P in water	mg/L	0.01	0.01	0.01	0.01	0.01
Chlorophyll a	mg/m ³	2	<1	<1	1	<1

Miscellaneous Inorganics						
Our Reference		346399-41	346399-42	346399-43	346399-44	346399-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW303 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	10	10	16	16	11
Total Nitrogen in water	mg/L	0.1	0.2	0.1	0.1	0.7
Phosphate as P in water	mg/L	0.01	0.009	0.01	0.009	<0.005
Chlorophyll a	mg/m ³	2	1	<1	1	8

Miscellaneous Inorganics

Our Reference		346399-46	346399-47	346399-48	346399-49	346399-50
Your Reference	UNITS	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	16	160	170	8	7
Total Nitrogen in water	mg/L	0.7	1.3	1.4	0.7	0.7
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	8	41	25	35	5

Miscellaneous Inorganics

Our Reference		346399-51	346399-52	346399-53	346399-54	346399-55
Your Reference	UNITS	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024	14/03/2024	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	6	12	11	9	20
Total Nitrogen in water	mg/L	0.7	0.7	0.9	0.9	1.6
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	1	2	34	45	5

Miscellaneous Inorganics

Our Reference		346399-56	346399-61
Your Reference	UNITS	3365/SW308 W/2	3365/GW DUP01
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water
Date prepared	-	14/03/2024	14/03/2024
Date analysed	-	14/03/2024	14/03/2024
Total Suspended Solids	mg/L	51	[NA]
Total Nitrogen in water	mg/L	1.2	[NA]
Phosphate as P in water	mg/L	<0.005	[NA]
Chlorophyll a	mg/m ³	3	[NA]
pH	pH Units	[NA]	5.5
Electrical Conductivity	µS/cm	[NA]	4,000

Microbiological Testing

Our Reference		346399-1	346399-2	346399-3	346399-4	346399-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
Faecal Coliforms	cfu/100mL	<10	<100	<1,000	1,500	<1,000

Microbiological Testing

Our Reference		346399-6	346399-7	346399-8	346399-9	346399-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	[NA]	[NA]	<1,000	20^A	<1,000
Faecal Coliforms	cfu/100mL	<1,000 NBO	<20^A A	<1,000	20^A	<1,000

Microbiological Testing

Our Reference		346399-11	346399-12	346399-13	346399-14	346399-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	<10	<10	<10	<10	<10
Faecal Coliforms	cfu/100mL	<10	<10	<10	<10	<10

Microbiological Testing

Our Reference		346399-16	346399-17	346399-18	346399-19	346399-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	<10	<100	<10	<100	<10
Faecal Coliforms	cfu/100mL	<10	<100	<10	<100	<10

Microbiological Testing

Our Reference		346399-21	346399-22	346399-23	346399-24	346399-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	<100	<100	<10	<10	>10 & <100
Faecal Coliforms	cfu/100mL	<100	<100	<10	<10	>10 & <100

Microbiological Testing

Our Reference		346399-26	346399-27	346399-28	346399-29	346399-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	<100	<100	<10	<10	<100
Faecal Coliforms	cfu/100mL	<100	<100	<10	<10	<100

Microbiological Testing

Our Reference		346399-31	346399-32	346399-33	346399-34	346399-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	<100	<10	<10	<100	<100
Faecal Coliforms	cfu/100mL	<100	<10	<10	<100	<100

Microbiological Testing

Our Reference		346399-36	346399-37	346399-38	346399-39	346399-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	<10	<100	<10	<100	<100
Faecal Coliforms	cfu/100mL	<10	<100	<10	<100	<100

Microbiological Testing

Our Reference		346399-41	346399-42	346399-43	346399-44	346399-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW303 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	<100	<100	<100	<100	1,100
Faecal Coliforms	cfu/100mL	<100	<100	<100	<100	1,100

Microbiological Testing

Our Reference		346399-46	346399-47	346399-48	346399-49	346399-50
Your Reference	UNITS	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	9,300	100	50	10^A	<10
Faecal Coliforms	cfu/100mL	9,300	100	50	10^A	<10

Microbiological Testing

Our Reference		346399-51	346399-52	346399-53	346399-54	346399-55
Your Reference	UNITS	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1
Sampling Period Dates		11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024	11/03/2024-13/03/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	15/03/2024	15/03/2024	15/03/2024	15/03/2024	15/03/2024
E. coli	cfu/100mL	<100	<10	260	<10	>10 & <100
Faecal Coliforms	cfu/100mL	<100	<10	260	<10	>10 & <100

Microbiological Testing

Our Reference		346399-56
Your Reference	UNITS	3365/SW308 W/2
Sampling Period Dates		11/03/2024-13/03/2024
Type of sample		Water
Date of testing	-	15/03/2024
E. coli	cfu/100mL	1,000
Faecal Coliforms	cfu/100mL	1,000

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determined stoichiometrically from the base metal concentration.
Org-020	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-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/03/2024	11	19/03/2024	20/03/2024		19/03/2024	[NT]
Date analysed	-			20/03/2024	11	20/03/2024	21/03/2024		20/03/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	11	<10	<10	0	106	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	11	<10	<10	0	106	[NT]
Surrogate Dibromofluoromethane	%		Org-023	102	11	94	109	15	95	[NT]
Surrogate Toluene-d8	%		Org-023	98	11	97	100	3	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	98	11	101	99	2	103	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			[NT]	18	19/03/2024	20/03/2024		19/03/2024	[NT]
Date analysed	-			[NT]	18	20/03/2024	21/03/2024		20/03/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	18	<10	<10	0	118	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	18	<10	<10	0	118	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	18	100	108	8	94	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	18	99	99	0	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	18	102	100	2	102	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date extracted	-			[NT]	28	19/03/2024	20/03/2024		19/03/2024	[NT]
Date analysed	-			[NT]	28	20/03/2024	21/03/2024		20/03/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	28	<10	<10	0	112	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	28	<10	<10	0	112	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	28	99	107	8	91	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	28	97	98	1	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	28	101	98	3	101	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	19/03/2024	20/03/2024		[NT]	[NT]
Date analysed	-			[NT]	38	20/03/2024	21/03/2024		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	38	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	38	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	38	100	107	7	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	38	98	98	0	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	38	101	99	2	[NT]	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	41	19/03/2024	20/03/2024		[NT]	[NT]
Date analysed	-			[NT]	41	20/03/2024	21/03/2024		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	41	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	41	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	41	100	107	7	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	41	97	98	1	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	41	100	99	1	[NT]	[NT]

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QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	346399-9
Date extracted	-			15/03/2024	8	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			16/03/2024	8	16/03/2024	16/03/2024		16/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	8	93	120	25	109	104
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	8	230	350	41	90	110
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	8	<100	160	46	114	102
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	8	130	170	27	109	104
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	8	240	400	50	90	110
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	8	<100	<100	0	114	102
Surrogate o-Terphenyl	%		Org-020	111	8	94	103	9	119	98

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	346399-19
Date extracted	-			[NT]	18	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	18	16/03/2024	16/03/2024		16/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	18	<50	<50	0	108	114
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	18	<100	<100	0	110	116
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	18	<100	<100	0	100	94
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	18	<50	<50	0	108	114
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	18	<100	<100	0	110	116
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	18	<100	<100	0	100	94
Surrogate o-Terphenyl	%		Org-020	[NT]	18	83	68	20	86	97

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	346399-29
Date extracted	-			[NT]	28	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	28	16/03/2024	16/03/2024		15/03/2024	16/03/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	28	<50	<50	0	122	109
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	28	<100	<100	0	109	113
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	28	<100	<100	0	114	110
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	28	<50	<50	0	122	109
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	28	<100	<100	0	109	113
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	28	<100	<100	0	114	110
Surrogate o-Terphenyl	%		Org-020	[NT]	28	84	81	4	119	97

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	38	16/03/2024	16/03/2024		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	38	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	38	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	38	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	38	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	38	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	38	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	38	86	94	9	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	48	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	48	15/03/2024	15/03/2024		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	48	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	48	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	48	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	48	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	48	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	48	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	48	81	76	6	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	346399-9
Date extracted	-			15/03/2024	8	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			15/03/2024	8	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Naphthalene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	104	117
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	98	94
Fluorene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	88	96
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	97	107
Anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	102	104
Pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	103	110
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	91	93
Benzo(b,j,k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	101	107
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	98	8	109	94	15	112	109

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	346399-19
Date extracted	-			[NT]	18	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	18	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Naphthalene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	104	119
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	85	100
Fluorene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	84	96
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	93	109
Anthracene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	90	108
Pyrene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	97	115
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	82	97
Benzo(b,j,k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	95	115
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	18	103	83	22	97	104

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	346399-29
Date extracted	-			[NT]	28	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	28	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Naphthalene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	96	115
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	78	94
Fluorene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	77	94
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	82	101
Anthracene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	84	102
Pyrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	89	107
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	76	91
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	87	109
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	28	104	104	0	84	108

QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	38	15/03/2024	15/03/2024		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	38	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	38	109	111	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	48	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	48	15/03/2024	15/03/2024		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	48	87	82	6	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	346399-9
Date extracted	-			15/03/2024	8	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			15/03/2024	8	15/03/2024	15/03/2024		15/03/2024	15/03/2024
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	93	94
HCB	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	95	95
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	98	102
delta-BHC	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	101	101
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	103	107
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	102	110
Dieldrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	113	120
Endrin	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	104	118
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	96	104
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	97	105
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	89	8	107	89	18	109	103

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	346399-19
Date extracted	-			[NT]	18	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	18	15/03/2024	15/03/2024		15/03/2024	15/03/2024
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	82	95
HCB	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	83	93
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	89	104
delta-BHC	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	94	106
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	90	111
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	96	112
Dieldrin	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	101	120
Endrin	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	89	117
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	90	106
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	88	106
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	18	98	81	19	88	102

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	346399-29
Date extracted	-			[NT]	28	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	28	15/03/2024	15/03/2024		15/03/2024	15/03/2024
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	76	92
HCB	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	78	90
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	80	98
delta-BHC	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	78	99
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	86	100
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	86	108
Dieldrin	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	92	111
Endrin	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	89	113
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	81	98
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	79	98
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	28	98	87	12	84	106

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	38	15/03/2024	15/03/2024		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	38	93	104	11	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	48	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	48	15/03/2024	15/03/2024		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	48	87	87	0	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	346399-9
Date extracted	-			15/03/2024	8	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			15/03/2024	8	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Aroclor 1016	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	104	112
Aroclor 1260	µg/L	2	Org-021/022/025	<2	8	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	85	8	101	87	15	109	101

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	346399-19
Date extracted	-			[NT]	18	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	18	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	95	110
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	18	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	18	96	71	30	89	100

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	346399-29
Date extracted	-			[NT]	28	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	28	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	85	106
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	28	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	28	95	88	8	83	103

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	38	15/03/2024	15/03/2024		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	38	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	38	98	101	3	[NT]	[NT]

QUALITY CONTROL: PCBs in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	48	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	48	15/03/2024	15/03/2024		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	48	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	48	81	76	6	[NT]	[NT]

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QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	346399-9
Date prepared	-			18/03/2024	8	18/03/2024	18/03/2024		18/03/2024	18/03/2024
Date analysed	-			18/03/2024	8	18/03/2024	18/03/2024		18/03/2024	18/03/2024
Aluminium-Total	µg/L	10	Metals-022	<10	8	230	220	4	91	#
Arsenic-Total	µg/L	1	Metals-022	<1	8	2	2	0	97	100
Chromium-Total	µg/L	1	Metals-022	<1	8	<1	<1	0	87	90
Copper-Total	µg/L	1	Metals-022	<1	8	4	5	22	87	88
Iron-Total	µg/L	10	Metals-022	<10	8	2700	2600	4	93	#
Mercury-Total	µg/L	0.05	Metals-021	<0.05	8	<0.05	<0.05	0	103	96
Lead-Total	µg/L	1	Metals-022	<1	8	<1	<1	0	100	96
Selenium-Total	µg/L	1	Metals-022	<1	8	<1	<1	0	99	98
Zinc-Total	µg/L	1	Metals-022	<1	8	11	12	9	94	92

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	346399-29
Date prepared	-			[NT]	18	18/03/2024	18/03/2024		18/03/2024	18/03/2024
Date analysed	-			[NT]	18	18/03/2024	18/03/2024		18/03/2024	18/03/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	18	270	330	20	90	100
Arsenic-Total	µg/L	1	Metals-022	[NT]	18	5	5	0	97	112
Chromium-Total	µg/L	1	Metals-022	[NT]	18	1	1	0	102	114
Copper-Total	µg/L	1	Metals-022	[NT]	18	<1	<1	0	97	108
Iron-Total	µg/L	10	Metals-022	[NT]	18	890	870	2	108	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	18	<0.05	[NT]		102	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	18	<1	<1	0	98	87
Selenium-Total	µg/L	1	Metals-022	[NT]	18	4	4	0	95	90
Zinc-Total	µg/L	1	Metals-022	[NT]	18	5	4	22	105	114

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	346399-31
Date prepared	-			[NT]	19	18/03/2024	18/03/2024		18/03/2024	18/03/2024
Date analysed	-			[NT]	19	18/03/2024	18/03/2024		18/03/2024	18/03/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	19	120	[NT]		92	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	19	6	[NT]		96	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	19	<1	[NT]		101	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	19	1	[NT]		96	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	19	310	[NT]		106	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	19	<0.05	<0.05	0	92	95
Lead-Total	µg/L	1	Metals-022	[NT]	19	<1	[NT]		97	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	19	5	[NT]		96	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	19	2	[NT]		104	[NT]

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QUALITY CONTROL: All metals in water - total					Duplicate		Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	346399-49
Date prepared	-			[NT]	28	18/03/2024	18/03/2024		[NT]	18/03/2024
Date analysed	-			[NT]	28	18/03/2024	18/03/2024		[NT]	18/03/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	28	200	200	0	[NT]	97
Arsenic-Total	µg/L	1	Metals-022	[NT]	28	2	2	0	[NT]	99
Chromium-Total	µg/L	1	Metals-022	[NT]	28	<1	<1	0	[NT]	122
Copper-Total	µg/L	1	Metals-022	[NT]	28	3	3	0	[NT]	102
Iron-Total	µg/L	10	Metals-022	[NT]	28	390	400	3	[NT]	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	28	<0.05	[NT]		[NT]	85
Lead-Total	µg/L	1	Metals-022	[NT]	28	<1	<1	0	[NT]	86
Selenium-Total	µg/L	1	Metals-022	[NT]	28	1	1	0	[NT]	89
Zinc-Total	µg/L	1	Metals-022	[NT]	28	5	6	18	[NT]	108

QUALITY CONTROL: All metals in water - total					Duplicate		Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	30	18/03/2024	18/03/2024		[NT]	[NT]
Date analysed	-			[NT]	30	18/03/2024	18/03/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	30	160	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	30	6	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	30	1	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	30	1	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	30	350	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	30	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	30	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	30	2	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	30	3	[NT]		[NT]	[NT]

QUALITY CONTROL: All metals in water - total					Duplicate		Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	38	18/03/2024	18/03/2024		[NT]	[NT]
Date analysed	-			[NT]	38	18/03/2024	18/03/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	38	110	120	9	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	38	6	5	18	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	38	<1	1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	38	1	<1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	38	280	300	7	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	38	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	38	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	38	2	2	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	38	2	2	0	[NT]	[NT]

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QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	48	18/03/2024	18/03/2024		[NT]	[NT]
Date analysed	-			[NT]	48	18/03/2024	18/03/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	48	1100	1200	9	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	48	3	3	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	48	4	4	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	48	3	3	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	48	22000	21000	5	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	48	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	48	2	3	40	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	48	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	48	7	6	15	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	58	18/03/2024	18/03/2024		[NT]	[NT]
Date analysed	-			[NT]	58	18/03/2024	18/03/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	58	80	80	0	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	58	2	2	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	58	<1	<1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	58	<1	<1	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	58	230	240	4	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	58	<0.05	[NT]		[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	58	<1	<1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	58	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	58	1	1	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	346399-10
Date prepared	-			15/03/2024	1	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			18/03/2024	1	18/03/2024	18/03/2024		18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.2	0.2	0	108	110

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	346399-30
Date prepared	-			[NT]	8	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	8	18/03/2024	18/03/2024		18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	8	1.3	1.2	8	110	115

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	346399-50
Date prepared	-			[NT]	18	15/03/2024	15/03/2024		15/03/2024	15/03/2024
Date analysed	-			[NT]	18	18/03/2024	18/03/2024		18/03/2024	18/03/2024
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	18	0.1	0.1	0	115	119

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	28	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	28	18/03/2024	18/03/2024		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	28	<0.05	<0.05	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	38	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	38	18/03/2024	18/03/2024		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	38	<0.05	<0.05	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	48	15/03/2024	15/03/2024		[NT]	[NT]
Date analysed	-			[NT]	48	18/03/2024	18/03/2024		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	48	0.09	0.1	11	[NT]	[NT]

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QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	346399-2
Date prepared	-			14/03/2024	1	14/03/2024	14/03/2024		14/03/2024	14/03/2024
Date analysed	-			14/03/2024	1	14/03/2024	14/03/2024		14/03/2024	14/03/2024
Total Suspended Solids	mg/L	5	Inorg-019	<5	11	14	15	7	98	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	1	0.1	0.1	0	90	93
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	1	<0.005	<0.005	0	111	#
Chlorophyll a	mg/m ³	1	INORG-119	<1	11	1	[NT]		96	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	346399-22
Date prepared	-			[NT]	11	14/03/2024	14/03/2024		14/03/2024	14/03/2024
Date analysed	-			[NT]	11	14/03/2024	14/03/2024		14/03/2024	14/03/2024
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	20	16	16	0	96	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.2	0.2	0	90	88
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	0.02	0.03	40	118	119
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	20	<1	<1	0	94	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	346399-42
Date prepared	-			[NT]	20	14/03/2024	14/03/2024		14/03/2024	14/03/2024
Date analysed	-			[NT]	20	14/03/2024	14/03/2024		14/03/2024	14/03/2024
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	21	10	[NT]		96	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	20	0.1	[NT]		103	82
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	20	0.02	[NT]		110	109
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	21	<1	[NT]		96	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	21	14/03/2024	14/03/2024		[NT]	[NT]
Date analysed	-			[NT]	21	14/03/2024	14/03/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	21	0.2	0.2	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	21	0.01	0.02	67	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	31	7	10	35	[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	31	1	[NT]		[NT]	[NT]

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QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	31	14/03/2024	14/03/2024		[NT]	[NT]
Date analysed	-			[NT]	31	14/03/2024	14/03/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	31	0.2	0.1	67	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	31	0.01	0.01	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	41	10	7	35	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	41	2	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	14/03/2024	14/03/2024		[NT]	[NT]
Date analysed	-			[NT]	41	14/03/2024	14/03/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	41	0.1	0.1	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	41	0.01	0.01	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	51	6	<5	18	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	51	1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	14/03/2024	14/03/2024		[NT]	[NT]
Date analysed	-			[NT]	51	14/03/2024	14/03/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	51	0.7	0.6	15	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	51	<0.005	<0.005	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

MISC_INORG:# Percent recovery is not applicable due to the high concentration of the analyte/s in the sample/s. However an acceptable recovery was obtained for the LCS.

All metals in water - total - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Microbiology analysed by Sonic Food & Water Testing. Report No. W2406511-516

^ The stated result may be statistically unreliable

A: Approximate

NBO: The presence of competing background organisms in the sample may have reduced the count.

The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

vTRH in Water (C6-C9) NEPM - The PQL has been raised as sample 346399-8 was foamy and therefore required a dilution.

Appendix AK – Event 18 Data

Table 144: In situ water quality data and statistical summary for Crookhaven surface waters during Event 18.

PROJECT INFORMATION												
PROJECT NUMBER:		P1203365			DATE:		8/04/2024					
CLIENT:		Sealark Pty Ltd			SAMPLED BY:		BTM & TR					
SITE LOCATION:		West Culburra										
IN SITU WATER QUALITY PARAMETERS												
Date	Bore / Location ID	Sample Type (S, D or T)	Time	Depth to Water (TOC)	Temp (°C)	pH	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% Sat)*RTB*	EC µS/cm	Salinity (ppt)	Turbidity (ntu)
8/04/2024	SW201	S ((WWE))			20.40	6.96	81.90	7.40	86.00	12382.00		
8/04/2024	SW201	D ((WWE))			20.40	6.81	93.00	5.60	68.00	23155.00		
8/04/2024	SW202	S (WWE)			20.20	7.22	68.10	6.90	74.00	8996.00		
8/04/2024	SW202	D (WWE)			20.20	7.10	71.20	6.80	78.00	10673.00		
8/04/2024	SW203	S (WWE)			20.00	7.57	71.30	7.70	88.00	10562.00		
8/04/2024	SW203	D (WWE)			20.30	7.30	83.60	6.50	77.00	19103.00		
8/04/2024	SW204	S (WWE)			20.30	7.01	75.20	6.10	72.00	17279.00		
8/04/2024	SW204	D (WWE)			20.10	6.99	81.60	6.00	72.00	22007.00		
8/04/2024	SW205	S (WWE)			20.00	7.14	78.40	7.20	83.00	11010.00		
8/04/2024	SW205	D (WWE)			20.00	7.07	81.60	6.90	80.00	12399.00		
8/04/2024	SW206	S (WWE)			20.00	6.42	90.80	7.10	82.00	13477.00		
8/04/2024	SW206	D (WWE)			20.00	6.94	102.30	6.70	81.00	23932.00		
8/04/2024	SW207	S (WWE)			20.10	7.08	61.20	7.50	84.00	7369.00		
8/04/2024	SW207	D (WWE)			20.00	8.86	81.40	7.00	82.00	16233.00		
8/04/2024	SW208	S (WWE)			20.00	7.21	46.80	7.50	85.00	6903.00		
8/04/2024	SW208	D (WWE)			20.00	7.06	73.40	6.90	83.00	23339.00		
8/04/2024	SW209	S (WWE)			19.90	7.07	89.50	7.60	85.00	5821.00		
8/04/2024	SW209	D (WWE)			20.30	6.80	105.80	6.90	80.00	15097.00		
8/04/2024	SW210	S (WWE)			20.20	6.99	85.80	6.90	74.00	9784.00		
8/04/2024	SW210	D (WWE)			20.40	6.89	97.80	6.40		13354.00		
8/04/2024	SW211	S (WWE)			20.00	7.06	83.70	7.40	84.00	7580.00		
8/04/2024	SW211	D (WWE)			19.90	7.04	93.40	7.80	89.00	10591.00		
8/04/2024	SW212	S (WWE)			20.10	6.93	94.90	7.10	82.00	12498.00		
8/04/2024	SW212	D (WWE)			20.60	6.85	102.20	6.70	74.00	16767.00		
8/04/2024	SW213	S (WWE)			14.80	7.88	68.40	7.80	87.00	4737.00		
8/04/2024	SW213	D (WWE)			20.20	7.35	95.10	7.20	82.00	8216.00		
8/04/2024	SW214	S (WWE)			14.80	7.55	84.00	7.80	87.00	4553.00		
8/04/2024	SW214	D (WWE)			19.80	7.24	98.80	7.50	85.00	9987.00		
8/04/2024	SW215	S (WWE)			20.20	7.42	84.30	7.00	90.00	38434.00		
8/04/2024	SW215	D (WWE)			20.30	7.54	87.60	6.70	88.00	45348.00		
8/04/2024	SW216	S (WWE)			20.30	7.43	110.90	7.60	103.00	51745.00		
8/04/2024	SW216	D (WWE)			20.30	7.58	106.30	7.50	101.00	51654.00		
8/04/2024	SW217	S (WWE)			20.20	7.67	107.40	7.60	104.00	52246.00		
8/04/2024	SW217	D (WWE)			20.30	7.72	104.80	7.50	102.00	52303.00		
EVENT STATISTICAL SUMMARY												
Number of results					34.00	34.00	34.00	34.00	33.00	34.00		
Maximum Value					20.60	8.86	110.90	7.80	104.00	52303.00		
Mean Value					19.84	7.23	86.54	7.08	84.00	19103.94		
Median Value					20.15	7.09	85.05	7.10	83.00	12926.00		
Minimum Value					14.80	6.42	46.80	5.60	68.00	4553.00		

Table 147: Laboratory water analysis and statistical summary for Crookhaven catchment stormwater runoff during Event 18.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																	
3365/DUP02	SW102	07 Apr 2024													0.56	<0.001	<0.001	0.002	0.55
3365/SW101	SW101	08 Apr 2024	<10	250	190	<100	440		0.009	<0.2	2.5	0.2	0.15	14	0.79	0.001	0.002	0.004	2.4
3365/SW102	SW102	07 Apr 2024	<10	180	190	<100	370	380	380	0.004	<0.2	0.9	0.07	<0.005	17	0.63	<0.001	<0.001	0.002
3365/SW103	SW103	08 Apr 2024	<10	540	<100	<100	540		0.001	<0.2	1.3	<0.05	<0.005	82	0.91	<0.001	0.002	0.005	1.5

Statistics																			
Number of Results	3	3	3	3	3	1	1	3	3	3	3	3	3	3	4	4	4	4	4
Number of Detects	0	3	2	0	3	1	1	3	0	3	2	1	3	4	1	2	4	4	4
Minimum Concentration	<10	180	<100	<100	370	380	380	0.001	<0.2	0.9	<0.05	<0.005	14	0.56	0.001	<0.001	0.002	0.005	2.4
Maximum Concentration	<10	540	190	<100	540	380	380	0.009	<0.2	2.5	0.2	0.15	82	0.91	0.001	0.002	0.005	2.4	2.4
Average Concentration *	5	323	143	50	450			0.0047	0.1	1.6	0.098	0.052	38	0.72	0.00062	0.0012	0.0032	1.2	1.2
Median Concentration *	5	250	190	50	440	380	380	0.004	0.1	1.3	0.07	0.0025	17	0.71	0.0005	0.00125	0.003	1.025	1.025

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																		
3365/DUP02	SW102	07 Apr 2024	<0.001	<0.00005	<0.001	0.01														
3365/SW101	SW101	08 Apr 2024	<0.001	<0.00005	<0.001	0.011	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW102	SW102	07 Apr 2024	<0.001	<0.00005	<0.001	0.011	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW103	SW103	08 Apr 2024	0.002	<0.00005	<0.001	0.016	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.001	<0.00005	<0.001	0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration	0.002	<0.00005	<0.001	0.016	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *	0.00088	0.000025	0.0005	0.012	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *	0.0005	0.000025	0.0005	0.011	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

					PAH															
	γ-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3365/DUP02	SW102	07 Apr 2024																		
3365/SW101	SW101	08 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW102	SW102	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW103	SW103	08 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *	0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date													
3365/DUP02	SW102	07 Apr 2024													
3365/SW101	SW101	08 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	340	<100	340
3365/SW102	SW102	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	80	260	<100	340
3365/SW103	SW103	08 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	590	<100	590

Statistics															
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	1	3	0	3
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<10	<50	260	<100	340
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<2	<10	80	590	<100	590
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	5	43	397	50	423
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	1	5	25	340	50	340

* A Non Detect Multiplier of 0.5 has been applied.

Table 148: Laboratory water analysis and statistical summary for Crookhaven surface waters during Event 18.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/DUP03	SW214	08 Apr 2024														0.9	0.002	0.001	0.002	1.9
3365/DUP04	SW203	08 Apr 2024														0.74	0.002	<0.001	0.001	1.5
3365/SW201 W/1	SW201	08 Apr 2024	<10	<50	<100	<100	<50			0.003	<0.2	0.6	0.09	0.04	27	0.73	0.001	<0.001	0.001	1.1
3365/SW201 W/2	SW201	08 Apr 2024	<10	<50	<100	<100	<50	2,000.0	2,000.0	0.002	<0.2	0.7	0.09	0.04	27	0.81	0.002	0.001	0.002	1.4
3365/SW202 W/1	SW202	08 Apr 2024	<10	<50	<100	<100	<50	3,000.0	3,000.0	<0.001	<0.2	0.6	0.08	0.04	28	0.95	0.002	0.001	0.002	1.5
3365/SW202 W/2	SW202	08 Apr 2024	<10	<50	<100	<100	<50	2,000.0	2,000.0	0.002	<0.2	0.6	0.08	0.04	33	0.78	0.001	0.001	0.002	1.4
3365/SW203 W/1	SW203	08 Apr 2024	<10	<50	<100	<100	<50	12,000.0	12,000.0	<0.001	<0.2	0.6	0.08	0.04	24	0.78	0.002	<0.001	0.002	1.2
3365/SW203 W/2	SW203	08 Apr 2024	<10	<50	<100	<100	<50	5,000.0	5,000.0	0.005	<0.2	0.6	0.09	0.04	23	0.77	0.002	0.001	0.002	1.3
3365/SW204 W/1	SW204	08 Apr 2024	<10	<50	<100	<100	<50	<1,000.0	<1,000.0	0.007	<0.2	0.5	0.1	0.02	62	0.8	0.002	0.002	0.003	1.4
3365/SW204 W/2	SW204	08 Apr 2024	<10	59	<100	<100	60	<1,000.0	<1,000.0	0.002	<0.2	0.5	0.07	0.02	15	0.51	0.002	<0.001	0.002	0.89
3365/SW205 W/1	SW205	08 Apr 2024	<10	<50	<100	<100	<50	3,000.0	3,000.0	0.002	<0.2	0.6	0.08	0.03	30	0.73	0.002	0.001	0.002	1.3
3365/SW205 W/2	SW205	08 Apr 2024	<10	<50	<100	<100	<50	12,000.0	12,000.0	0.001	<0.2	0.6	0.08	0.04	28	0.75	0.002	0.001	0.002	1.4
3365/SW206 W/1	SW206	08 Apr 2024	<10	<50	<100	<100	<50	5,000.0	5,000.0	0.002	<0.2	0.6	0.08	0.03	30	0.76	0.002	0.001	0.002	1.4
3365/SW206 W/2	SW206	08 Apr 2024	<10	<50	<100	<100	<50	5,000.0	5,000.0	<0.001	<0.2	0.6	0.08	0.03	28	0.74	0.002	0.001	0.002	1.3
3365/SW207 W/1	SW207	08 Apr 2024	<10	<50	<100	<100	<50	700	700	0.002	<0.2	0.6	0.09	0.04	32	0.71	0.002	0.001	0.002	1.5
3365/SW207 W/2	SW207	08 Apr 2024	<10	<50	<100	<100	<50	11,000.0	11,000.0	0.003	<0.2	0.6	0.08	0.03	31	0.78	0.002	<0.001	0.002	1.5
3365/SW208 W/1	SW208	08 Apr 2024	<10	<50	<100	<100	<50	3,800.0	3,800.0	0.002	<0.2	0.6	0.09	0.03	29	0.83	0.002	0.001	0.002	1.4
3365/SW208 W/2	SW208	08 Apr 2024	<10	<50	<100	<100	<50	2,000.0	2,000.0	<0.001	<0.2	0.6	0.08	0.03	33	0.8	0.002	0.001	0.003	1.5
3365/SW209 W/1	SW209	08 Apr 2024	<10	<50	<100	<100	<50	5,000.0	5,000.0	0.002	<0.2	0.6	0.07	0.04	34	0.65	0.001	<0.001	0.001	1.2
3365/SW209 W/2	SW209	08 Apr 2024	<10	<50	<100	<100	<50	9,000.0	9,000.0	0.004	<0.2	0.6	0.1	0.03	32	0.92	0.002	0.001	0.002	1.8
3365/SW210 W/1	SW210	08 Apr 2024	<10	<50	<100	<100	<50	8,000.0	8,000.0	<0.001	<0.2	0.5	0.08	0.04	32	0.68	0.002	<0.001	0.002	1.2
3365/SW210 W/2	SW210	08 Apr 2024	<10	<50	<100	<100	<50	5,000.0	5,000.0	<0.001	<0.2	0.6	0.08	0.04	27	0.86	0.002	0.001	0.002	1.4
3365/SW211 W/1	SW211	08 Apr 2024	<10	<50	<100	<100	<50	2,000.0	2,000.0	0.007	<0.2	0.7	0.1	0.03	31	0.74	0.002	0.001	0.002	1.3
3365/SW211 W/2	SW211	08 Apr 2024	<10	<50	<100	<100	<50	4,000.0	4,000.0	0.004	<0.2	0.6	0.08	0.04	28	0.83	0.002	0.001	0.002	1.4
3365/SW212 W/1	SW212	08 Apr 2024	<10	<50	<100	<100	<50	8,000.0	8,000.0	<0.001	<0.2	0.6	0.08	0.04	30	0.76	0.002	<0.001	0.002	1.4
3365/SW212 W/2	SW212	08 Apr 2024	<10	<50	<100	<100	<50	3,000.0	3,000.0	0.001	<0.2	0.6	0.08	0.04	33	0.81	0.002	0.001	0.002	1.4
3365/SW213 W/1	SW213	08 Apr 2024	<10	<50	<100	<100	<50	1,800.0	1,800.0	0.001	<0.2	0.6	0.09	0.04	34	3	0.002	0.001	0.002	2.4
3365/SW213 W/2	SW213	08 Apr 2024	<10	<50	<100	<100	<50	4,000.0	4,000.0	0.002	<0.2	0.6	0.09	0.04	34	0.89	0.002	0.001	0.002	1.6
3365/SW214 W/1	SW214	08 Apr 2024	<10	<50	<100	<100	<50	14,000.0	14,000.0	0.003	<0.2	0.6	0.09	0.04	30	0.98	0.002	0.001	0.002	1.7
3365/SW214 W/2	SW214	08 Apr 2024	<10	<50	<100	<100	<50	7,000.0	7,000.0	<0.001	<0.2	0.6	0.09	0.04	29	0.99	0.002	0.001	0.002	1.7
3365/SW215 W/1	SW215	08 Apr 2024	<10	<50	<100	<100	<50	700	700	0.001	<0.2	0.4	0.06	0.03	16	0.35	0.001	<0.001	0.002	0.62
3365/SW215 W/2	SW215	08 Apr 2024	<10	<50	<100	<100	<50	1,000.0	1,000.0	<0.001	<0.2	0.4	0.06	0.03	14	0.36	0.002	<0.001	0.001	0.68
3365/SW216 W/1	SW216	08 Apr 2024	<10	<50	<100	<100	<50	1,500.0	1,500.0	0.001	<0.2	0.2	0.05	0.02	26	0.59	<0.002	<0.002	<0.002	0.88
3365/SW216 W/2	SW216	08 Apr 2024	<10	<50	<100	<100	<50	1,100.0	1,100.0	<0.001	<0.2	0.2	0.06	0.02	26	0.48	<0.002	<0.002	<0.002	0.71
3365/SW217 W/1	SW217	08 Apr 2024	<10	<50	<100	<100	<50	900	900	0.001	<0.2	0.1	<0.05	0.02	23	0.39	<0.002	<0.002	<0.002	0.54
3365/SW217 W/2	SW217	08 Apr 2024	<10	<50	<100	<100	<50	500	500	<0.001	<0.2	0.1	<0.05	0.02	16	0.2	<0.002	<0.002	<0.002	0.33

Statistics																		
Number of Results	34	34	34	34	34	33	33	34	34	34	34	34	34	36	36	36	36	36
Number of Detects	0	1	0	0	1	31	31	23	0	34	32	34	34	36	32	22	32	36
Minimum Concentration	<10	<50	<100	<100	<50	500	500	0.001	<0.2	0.1	0.05	0.02	14	0.2	0.001	0.001	0.001	0.33
Maximum Concentration	<10	59	<100	<100	60	14,000	14,000	0.007	<0.2	0.7	0.1	0.04	62	3	0.002	0.002	0.003	2.4
Average Concentration *	5	26	50	50	26	4,364	4,364	0.0019	0.1	0.53	0.078	0.034	29	0.79	0.0018	0.00089	0.0018	1.3
Median Concentration *	5	25	50	50	25	3,000	3,000	0.0015	0.1	0.6	0.08	0.04	29	0.765	0.002	0.001	0.002	1.4

* A Non Detect Multiplier of 0.5 has been applied.

[illegible][illegible][illegible]

* A Non Detect Multiplier of 0.5 has been applied.

[illegible][illegible][illegible]

* A Non Detect Multiplier of 0.5 has been applied.

[illegible]

* A Non Detect Multiplier of 0.5 has been applied.

Table 149: Laboratory water analysis and statistical summary for Lake Wollumbulla surface waters during Event 18.

	TRH					Biological			Halogenated Benzenes	Inorganics				Metals				
	C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Faecal Coliforms	E. Coli	Chlorophyll a	Hexachlorobenzene	Nitrogen (Total)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)	Total Suspended Solids (Lab)	Aluminium	Arsenic	Chromium (III+VI)	Copper	Iron
	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	cfu/100 ml	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	10	50	100	100	50	1	1	0.001	0.2	0.1	0.05	0.005	5	0.01	0.001	0.001	0.001	0.01

Field ID	Location Code	Date																		
3365/DUP01	SW301	07 Apr 2024														3.2	<0.001	0.003	0.002	2.2
3365/SW301 W/1	SW301	07 Apr 2024	<10	51	<100	<100	50	900	900	<0.001	<0.2	0.8	<0.05	<0.005	21	1.3	<0.001	0.002	0.002	1.2
3365/SW301 W/2	SW301	07 Apr 2024	<10	65	<100	<100	60	800	800	<0.001	<0.2	0.8	<0.05	<0.005	16	1.4	<0.001	0.002	0.002	1.2
3365/SW302 W/1	SW302	07 Apr 2024	<10	100	110	<100	210	2,000.0	2,000.0	0.002	<0.2	1	<0.05	<0.005	36	1.4	<0.001	0.002	0.002	1.7
3365/SW302 W/2	SW302	07 Apr 2024	<10	74	<100	<100	70	<1,000.0	<1,000.0	0.002	<0.2	1.0	<0.05	<0.005	54	1.4	<0.001	0.002	0.002	2.1
3365/SW303 W/1	SW303	08 Apr 2024	<10	<50	<100	<100	<50	150	150	0.003	<0.2	0.6	<0.05	<0.005	<5	0.16	0.002	<0.001	<0.001	0.21
3365/SW303 W/2	SW303	08 Apr 2024	<10	95	<100	<100	100	100	100	0.002	<0.2	0.6	<0.05	<0.005	5	0.15	0.002	<0.001	<0.001	0.2
3365/SW304 W/1	SW304	07 Apr 2024	<10	<50	<100	<100	<50	200	200	0.002	<0.2	1.3	<0.05	<0.005	32	3.2	<0.001	0.004	0.002	2.8
3365/SW304 W/2	SW304	07 Apr 2024	<10	91	<100	<100	90	230	230	0.002	<0.2	1.1	<0.05	<0.005	35	3.2	0.001	0.004	0.003	3
3365/SW305 W/1	SW305	07 Apr 2024	<10	<50	<100	<100	<50	200	100	0.001	<0.2	1.4	<0.05	<0.005	12	1.5	0.001	0.003	0.002	2.1
3365/SW305 W/2	SW305	07 Apr 2024	<10	<50	<100	<100	<50	<100	<100	0.003	<0.2	1.3	<0.05	<0.005	19	1.6	0.001	0.003	0.003	1.9
3365/SW306 W/1	SW306	08 Apr 2024	<10	<50	<100	<100	<50	<100	<100	0.001	<0.2	0.6	<0.05	<0.005	<5	0.07	0.002	<0.001	<0.001	0.1
3365/SW306 W/2	SW306	08 Apr 2024	<10	140	<100	<100	140			0.001	<0.2	0.6	<0.05	<0.005	<5	0.07	0.002	<0.001	<0.001	0.12
3365/SW307 W/1	SW307	07 Apr 2024	<10	71	<100	<100	70			0.033	<0.2	0.6	<0.05	<0.005	8	0.48	0.001	<0.001	0.002	1
3365/SW307 W/2	SW307	07 Apr 2024	<10	<50	<100	<100	<50	3,000.0	3,000.0	0.022	<0.2	0.6	<0.05	<0.005	10	0.49	<0.001	<0.001	0.001	0.91
3365/SW308 W/1	SW308	07 Apr 2024	<10	100	<100	<100	100	2,000.0	1,000.0	0.001	<0.2	1.0	<0.05	<0.005	12	1.4	<0.001	0.003	0.002	1.8
3365/SW308 W/2	SW308	07 Apr 2024	<10	160	<100	<100	160			0.002	<0.2	1.1	<0.05	<0.005	12	1.4	<0.001	0.003	0.003	1.8

Statistics																			
Number of Results	16	16	16	16	16	13	13	16	16	16	16	16	16	16	17	17	17	17	17
Number of Detects	0	10	1	0	10	10	10	14	0	16	0	0	13	17	8	11	13	17	
Minimum Concentration	<10	<50	<100	<100	50	100	100	0.001	<0.2	0.6	<0.05	<0.005	5	0.07	0.001	<0.001	0.001	0.1	
Maximum Concentration	<10	160	110	<100	210	3,000	3,000	0.033	<0.2	1.4	<0.05	<0.005	54	3.2	0.002	0.004	0.003	3	
Average Concentration *	5	69	54	50	75	783	698	0.0049	0.1	0.9	0.025	0.0025	17	1.3	0.00097	0.002	0.0018	1.4	
Median Concentration *	5	68	50	50	65	230	230	0.002	0.1	0.9	0.025	0.0025	12	1.4	0.0005	0.002	0.002	1.7	

* A Non Detect Multiplier of 0.5 has been applied.

					Organochlorine Pesticides														
	Lead	Mercury	Selenium	Zinc	4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ	0.001	0.00005	0.001	0.001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Field ID	Location Code	Date																		
3365/DUP01	SW301	07 Apr 2024	0.002	<0.00005	<0.001	0.007														
3365/SW301 W/1	SW301	07 Apr 2024	0.001	<0.00005	<0.001	0.006	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW301 W/2	SW301	07 Apr 2024	0.002	<0.00005	<0.001	0.006	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW302 W/1	SW302	07 Apr 2024	0.002	<0.00005	<0.001	0.006	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW302 W/2	SW302	07 Apr 2024	0.002	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW303 W/1	SW303	08 Apr 2024	<0.001	<0.00005	<0.001	<0.001	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW303 W/2	SW303	08 Apr 2024	<0.001	<0.00005	<0.001	0.004	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW304 W/1	SW304	07 Apr 2024	0.004	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW304 W/2	SW304	07 Apr 2024	0.004	<0.00005	<0.001	0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW305 W/1	SW305	07 Apr 2024	0.002	<0.00005	<0.001	0.006	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW305 W/2	SW305	07 Apr 2024	0.002	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW306 W/1	SW306	08 Apr 2024	<0.001	<0.00005	<0.001	0.004	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW306 W/2	SW306	08 Apr 2024	<0.001	<0.00005	<0.001	0.003	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW307 W/1	SW307	07 Apr 2024	<0.001	<0.00005	<0.001	0.009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW307 W/2	SW307	07 Apr 2024	<0.001	<0.00005	<0.001	0.007	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW308 W/1	SW308	07 Apr 2024	0.001	<0.00005	<0.001	0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3365/SW308 W/2	SW308	07 Apr 2024	0.001	<0.00005	<0.001	0.009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Statistics																				
Number of Results	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects	11	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	0.001	<0.00005	<0.001	<0.001	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Maximum Concentration	0.004	<0.00005	<0.001	0.009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Average Concentration *	0.0015	0.000025	0.0005	0.0057	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Median Concentration *	0.001	0.000025	0.0005	0.006	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

* A Non Detect Multiplier of 0.5 has been applied.

EQ					PAH															
	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	
	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
	0.2	0.2	0.2	0.2	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

Field ID	Location Code	Date																		
3365/DUP01	SW301	07 Apr 2024																		
3365/SW301 W/1	SW301	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW301 W/2	SW301	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW302 W/1	SW302	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW302 W/2	SW302	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW303 W/1	SW303	08 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW303 W/2	SW303	08 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW304 W/1	SW304	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW304 W/2	SW304	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW305 W/1	SW305	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW305 W/2	SW305	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW306 W/1	SW306	08 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW306 W/2	SW306	08 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW307 W/1	SW307	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW307 W/2	SW307	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW308 W/1	SW308	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3365/SW308 W/2	SW308	07 Apr 2024	<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Statistics																				
Number of Results			16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration			<0.2	<0.2	<0.2	<0.2	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration *			0.1	0.1	0.1	0.1	0.0001	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

			PCBs							TPH				
	Benzol(a)pyrene TEQ	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
EQ	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	0.0005	0.0001	2	2	2	2	2	2	2	10	50	100	100	50

Field ID	Location Code	Date													
3365/DUP01	SW301	07 Apr 2024													
3365/SW301 W/1	SW301	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW301 W/2	SW301	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW302 W/1	SW302	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	160	<100	160
3365/SW302 W/2	SW302	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW303 W/1	SW303	08 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW303 W/2	SW303	08 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW304 W/1	SW304	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW304 W/2	SW304	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW305 W/1	SW305	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW305 W/2	SW305	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW306 W/1	SW306	08 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW306 W/2	SW306	08 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	130	<100	130
3365/SW307 W/1	SW307	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW307 W/2	SW307	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	<100	<100	<50
3365/SW308 W/1	SW308	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	100	<100	100
3365/SW308 W/2	SW308	07 Apr 2024	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<10	<50	150	<100	150

Statistics															
Number of Results	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	4	0	4	
Minimum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	100	<100	<50	
Maximum Concentration	<0.0005	<0.0001	<2	<2	<2	<2	<2	<2	<2	<10	<50	160	<100	160	
Average Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	5	25	71	50	52	
Median Concentration *	0.00025	0.00005	1	1	1	1	1	1	1	5	25	50	50	25	

* A Non Detect Multiplier of 0.5 has been applied.

Table 150: Laboratory water analysis and statistical summary for Crookhaven catchment groundwater during Event 18.

	Biological	Inorganics				
	Faecal Coliforms	Electrical Conductivity (Non Compensated)	Nitrogen (Total)	pH (Lab)	Total Phosphorus (Organic Phosphate)	Reactive Phosphorus as P (Orthophosphate as P) (filtered)
	CFU/100mL	µS/cm	mg/L	-	mg/L	mg/L
EQL	1	1	0.1		0.05	0.005

Field ID	Location Code	Date						
3365/GW201	GW201	08 Apr 2024	<10		1.3		0.07	<0.005
3365/GW202	GW202	08 Apr 2024	<100		0.5		0.2	0.20
3365/GW203	GW203	08 Apr 2024			1.4		<0.05	0.02
3365/GW204	GW204	08 Apr 2024			0.7		2.6	0.009
3365/GW205	GW205	07 Apr 2024			1.4		<0.05	<0.005
3365/GW206	GW206	08 Apr 2024	<1,000.0		0.9		0.06	0.076
3365/GW207	GW207	08 Apr 2024			0.2		<0.05	<0.005
3365/GW DUP01	GW202	08 Apr 2024		3,400		6.1		

Statistics

Number of Results	3	1	7	1	7	7
Number of Detects	0	1	7	1	4	4
Minimum Concentration	<10	3,400	0.2	6.1	<0.05	<0.005
Maximum Concentration	<1,000	3,400	1.4	6.1	2.6	0.2
Average Concentration *	185		0.91		0.43	0.045
Median Concentration *	50	3,400	0.9	6.1	0.06	0.009

* A Non Detect Multiplier of 0.5 has been applied.

Appendix AL – Event 18 Documents

Multi Parameter Water Meter

Instrument **YSI Pro DSS**
Serial No. **21K101474**



Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
	Recharge OK?	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH/ORP	✓	
	2. Turbidity	✓	
	3. Conductivity	✓	
	4. D.O	✓	
	5. Temp	✓	
	6. Depth	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 7.00 (pH)		pH 7.00		410754	6.86
2. pH 4.00 (pH)		pH 4.00		414104	4.01
3. ORP (Mv)		233.84		A420151/B398193	235.8
4. EC (mS)		2760		414103	2749
5. D.O		0.0%		12265	0.0%
6. Temp (°C)		22.8		MultiTherm	22.6
7. Turbidity (NTU)		100NTU		420991	102.07

Calibrated by:

Miriam Poyitt

Calibration date:

2/04/2024

Next calibration due:

2/05/2024

SAMPLE ANALYSIS CHAIN OF CUSTODY FORM

WEST CULBURRA – ENVIROLAB QUOTATION – 22SY375_B0											
Name	P1203365 – Water Sampling, West Culburra, NSW										
Martens Contact Officer	Trystan Richards					Contact Email	trichards@martens.com.au				
Sampling and Shipping	Sample Date	07.04.2024 – 08.04.2024		Dispatch Date	09.04.2024		Turnaround Time		Standard		
	Our Reference	P1203365COC39V01				Shipping Method (X)	Hand	X	Post		Courier
	On Ice (X)	X	No Ice (X)		Other (X)						
Laboratory											
Name	Envirolab Services P/L										
Sample Delivery Address	12 Ashley St, Chatswood										
Delivery Contact	Name	Sample Receipt	Phone	02 9910 6200	Fax		Email	samplereceipt@envirolabservices.com.au			
Please Send Report By (X)	Post		Fax		Email	X	Reporting Email Address		trichards@martens.com.au, bmonaghan@martens.com.au and CC.A.Norris@martens.com.au		

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coli,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
1 3365/GW201						X	 Envirolab Services 12 Ashley St Chatswood NSW 2067 Ph: (02) 9910 6200 Job No: 348333 Date Received: 9/4/24 Time Received: 0930 Received by: JN Temp: ambient Cooling: icepack Security: intact Broken/None
2 3365/GW202						X	
3 3365/GW203						X	
4 3365/GW204						X	
5 3365/GW205						X	
6 3365/GW206						X	
7 3365/GW207						X	
8 3365/SW101	X	X	X	X			
9 3365/SW102	X	X	X	X			

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MARTENS & ASSOCIATES P/L
ABN 85 070 240 890 ACN 070 240 890

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coll,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
10 3365/SW103	X	X	X	X			
11 3365/SW201 W/1	X	X	X	X			
12 3365/SW201 W/2	X	X	X	X			
13 3365/SW202 W/1	X	X	X	X			
14 3365/SW202 W/2	X	X	X	X			
15 3365/SW203 W/1	X	X	X	X			
16 3365/SW203 W/2	X	X	X	X			
17 3365/SW204 W/1	X	X	X	X			
18 3365/SW204 W/2	X	X	X	X			
19 3365/SW205 W/1	X	X	X	X			
20 3365/SW205 W/2	X	X	X	X			
21 3365/SW206 W/1	X	X	X	X			
22 3365/SW206 W/2	X	X	X	X			
23 3365/SW207 W/1	X	X	X	X			
24 3365/SW207 W/2	X	X	X	X			
25 3365/SW208 W/1	X	X	X	X			
26 3365/SW208 W/2	X	X	X	X			
27 3365/SW209 W/1	X	X	X	X			
28 3365/SW209 W/2	X	X	X	X			
29 3365/SW210 W/1	X	X	X	X			
30 3365/SW210 W/2	X	X	X	X			
31 3365/SW211 W/1	X	X	X	X			
32 3365/SW211 W/2	X	X	X	X			
33 3365/SW212 W/1	X	X	X	X			
34 3365/SW212 W/2	X	X	X	X			
35 3365/SW213 W/1	X	X	X	X			
36 3365/SW213 W/2	X	X	X	X			
37 3365/SW214 W/1	X	X	X	X			
38 3365/SW214 W/2	X	X	X	X			

SOIL ANALYSIS CHAIN OF CUSTODY

Page of

Sample ID	Metals (Al, As, Cr, Cu, Fe, Hg, Pb, Se and Zn)	PAH, TRH, PCB	Faecal Coliforms, E. Coll,	TSS, TN, TP, orthophosphate, chlorophyll a, OCP	pH and EC	Faecal Coliforms, TN, orthophosphate, TP	
39 3365/SW215 W/1	X	X	X	X			
40 3365/SW215 W/2	X	X	X	X			
41 3365/SW216 W/1	X	X	X	X			
42 3365/SW216 W/2	X	X	X	X			
43 3365/SW217 W/1	X	X	X	X			
44 3365/SW217 W/2	X	X	X	X			
45 3365/SW301 W/1	X	X	X	X			
46 3365/SW301 W/1	x	X	X	X			
47 3365/SW302 W/1	X	X	X	X			
48 3365/SW302 W/1	X	X	X	X			
49 3365/SW303 W/1	X	X	X	X			
50 3365/SW303 W/2	X	X	X	X			
51 3365/SW304 W/1	X	X	X	X			
52 3365/SW304 W/2	X	X	X	X			
53 3365/SW305 W/1	X	X	X	X			
54 3365/SW305 W/2	X	X	X	X			
55 3365/SW306 W/1	X	X	X	X			
56 3365/SW306 W/2	X	X	X	X			
57 3365/SW307 W/1	X	X	X	X			
58 3365/SW307 W/2	X	X	X	X			
59 3365/SW308 W/1	X	X	X	X			
60 3365/SW308 W/2	X	X	X	X			
61 3365/DUP01	X						
62 3365/DUP02	X						
63 3365/DUP03	X						
64 3365/DUP04	X						
65 3365/GW DUP01					X		

CERTIFICATE OF ANALYSIS 348333

Client Details

Client	Martens & Associates Pty Ltd
Attention	Trystan Richards
Address	Suite 201, 20 George St, Hornsby, NSW, 2077

Sample Details

Your Reference	<u>P1203365 – Water Sampling, West Culburra, NSW</u>
Number of Samples	65 Water
Date samples received	09/04/2024
Date completed instructions received	09/04/2024

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	16/04/2024
Date of Issue	16/04/2024
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Greta Petzold, Operation Manager
 Hannah Nguyen, Metals Supervisor
 Loren Bardwell, Development Chemist
 Nick Sarlamis, Assistant Operation Manager
 Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH in Water (C6-C9) NEPM

Our Reference		348333-8	348333-9	348333-10	348333-11	348333-12
Your Reference	UNITS	3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	97	102	99	100	101
Surrogate Toluene-d8	%	98	98	97	99	99
Surrogate 4-Bromofluorobenzene	%	101	102	102	101	102

vTRH in Water (C6-C9) NEPM

Our Reference		348333-13	348333-14	348333-15	348333-16	348333-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	100	100	97	97	101
Surrogate Toluene-d8	%	99	97	98	100	98
Surrogate 4-Bromofluorobenzene	%	102	102	103	102	103

vTRH in Water (C6-C9) NEPM

Our Reference		348333-18	348333-19	348333-20	348333-21	348333-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	98	101	99	98	98
Surrogate Toluene-d8	%	97	97	96	98	98
Surrogate 4-Bromofluorobenzene	%	99	101	99	99	100

vTRH in Water (C6-C9) NEPM

Our Reference		348333-23	348333-24	348333-25	348333-26	348333-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	100	101	100	95	100
Surrogate Toluene-d8	%	97	98	97	98	98
Surrogate 4-Bromofluorobenzene	%	100	102	100	101	101

vTRH in Water (C6-C9) NEPM

Our Reference		348333-28	348333-29	348333-30	348333-31	348333-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	98	100	100	101	101
Surrogate Toluene-d8	%	99	99	98	98	98
Surrogate 4-Bromofluorobenzene	%	99	99	99	99	99

vTRH in Water (C6-C9) NEPM

Our Reference		348333-33	348333-34	348333-35	348333-36	348333-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	99	99	97	99	101
Surrogate Toluene-d8	%	98	98	99	97	98
Surrogate 4-Bromofluorobenzene	%	98	100	101	100	99

vTRH in Water (C6-C9) NEPM

Our Reference		348333-38	348333-39	348333-40	348333-41	348333-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	110	103	110	102	96
Surrogate Toluene-d8	%	98	98	98	99	99
Surrogate 4-Bromofluorobenzene	%	102	103	102	104	100

vTRH in Water (C6-C9) NEPM

Our Reference		348333-43	348333-44	348333-45	348333-46	348333-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	99	100	99	100	99
Surrogate Toluene-d8	%	98	97	98	97	98
Surrogate 4-Bromofluorobenzene	%	99	99	98	98	98

vTRH in Water (C6-C9) NEPM

Our Reference		348333-48	348333-49	348333-50	348333-51	348333-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	111	111	112	111	111
Surrogate Toluene-d8	%	98	98	98	98	98
Surrogate 4-Bromofluorobenzene	%	102	102	101	101	101

vTRH in Water (C6-C9) NEPM

Our Reference		348333-53	348333-54	348333-55	348333-56	348333-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
Surrogate Dibromofluoromethane	%	109	106	108	106	130
Surrogate Toluene-d8	%	99	99	99	98	114
Surrogate 4-Bromofluorobenzene	%	102	102	102	102	91

vTRH in Water (C6-C9) NEPM

Our Reference		348333-58	348333-59	348333-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water
Date extracted	-	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	15/04/2024	15/04/2024	15/04/2024
TRH C ₆ - C ₉	µg/L	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10
Surrogate Dibromofluoromethane	%	112	106	98
Surrogate Toluene-d8	%	98	98	98
Surrogate 4-Bromofluorobenzene	%	101	103	103

svTRH (C10-C40) in Water						
Our Reference	UNITS	348333-8	348333-9	348333-10	348333-11	348333-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	80	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	340	260	590	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	340	340	590	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	250	180	540	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	190	190	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	440	370	540	<50	<50
Surrogate o-Terphenyl	%	71	97	85	92	93

svTRH (C10-C40) in Water						
Our Reference	UNITS	348333-13	348333-14	348333-15	348333-16	348333-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	92	86	89	88	90

svTRH (C10-C40) in Water

Our Reference		348333-18	348333-19	348333-20	348333-21	348333-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	59	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	60	<50	<50	<50	<50
Surrogate o-Terphenyl	%	81	83	86	87	95

svTRH (C10-C40) in Water

Our Reference		348333-23	348333-24	348333-25	348333-26	348333-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	93	76	83	86	88

svTRH (C10-C40) in Water

Our Reference		348333-28	348333-29	348333-30	348333-31	348333-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	86	88	86	86	83

svTRH (C10-C40) in Water

Our Reference		348333-33	348333-34	348333-35	348333-36	348333-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	93	92	64	87

svTRH (C10-C40) in Water

Our Reference		348333-38	348333-39	348333-40	348333-41	348333-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	87	89	103	87	89

svTRH (C10-C40) in Water

Our Reference		348333-43	348333-44	348333-45	348333-46	348333-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	160
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	160
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	51	65	100
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	110
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	50	60	210
Surrogate o-Terphenyl	%	86	83	73	74	102

svTRH (C10-C40) in Water

Our Reference		348333-48	348333-49	348333-50	348333-51	348333-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	74	<50	95	<50	91
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	70	<50	100	<50	90
Surrogate o-Terphenyl	%	77	85	77	65	70

svTRH (C10-C40) in Water

Our Reference		348333-53	348333-54	348333-55	348333-56	348333-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	130	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	130	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	140	71
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	140	70
Surrogate o-Terphenyl	%	79	69	100	88	92

svTRH (C10-C40) in Water				
Our Reference		348333-58	348333-59	348333-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	100	150
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	100	150
TRH >C ₁₀ - C ₁₆	µg/L	<50	100	160
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	100	160
Surrogate o-Terphenyl	%	86	83	82

PAHs in Water						
Our Reference	UNITS	348333-8	348333-9	348333-10	348333-11	348333-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	73	88	88	93	96

PAHs in Water						
Our Reference		348333-13	348333-14	348333-15	348333-16	348333-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	96	93	94	97	83

PAHs in Water						
Our Reference		348333-18	348333-19	348333-20	348333-21	348333-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	89	92	88	95	90

PAHs in Water						
Our Reference		348333-23	348333-24	348333-25	348333-26	348333-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	93	81	88	94	94

PAHs in Water						
Our Reference		348333-28	348333-29	348333-30	348333-31	348333-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	95	96	80	91	87

PAHs in Water						
Our Reference		348333-33	348333-34	348333-35	348333-36	348333-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	83	91	94	74	96

PAHs in Water						
Our Reference		348333-38	348333-39	348333-40	348333-41	348333-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	101	100	104	103	95

PAHs in Water						
Our Reference		348333-43	348333-44	348333-45	348333-46	348333-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	97	96	74	78	82

PAHs in Water						
Our Reference		348333-48	348333-49	348333-50	348333-51	348333-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	76	96	87	73	73

PAHs in Water						
Our Reference		348333-53	348333-54	348333-55	348333-56	348333-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	88	79	101	100	97

PAHs in Water				
Our Reference		348333-58	348333-59	348333-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024
Naphthalene	µg/L	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	95	77	94

Organochlorine Pesticides in Water						
Our Reference	UNITS	348333-8	348333-9	348333-10	348333-11	348333-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	77	91	85	91	90

Organochlorine Pesticides in Water						
Our Reference		348333-13	348333-14	348333-15	348333-16	348333-17
Your Reference	UNITS	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	98	94	86	96	77

Organochlorine Pesticides in Water						
Our Reference		348333-18	348333-19	348333-20	348333-21	348333-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	88	93	93	93	88

Organochlorine Pesticides in Water						
Our Reference		348333-23	348333-24	348333-25	348333-26	348333-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	92	75	83	88	79

Organochlorine Pesticides in Water						
Our Reference		348333-28	348333-29	348333-30	348333-31	348333-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	84	93	78	81	78

Organochlorine Pesticides in Water						
Our Reference		348333-33	348333-34	348333-35	348333-36	348333-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	83	80	82	67	85

Organochlorine Pesticides in Water						
Our Reference		348333-38	348333-39	348333-40	348333-41	348333-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	91	85	80	91	84

Organochlorine Pesticides in Water						
Our Reference		348333-43	348333-44	348333-45	348333-46	348333-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	89	80	70	70	76

Organochlorine Pesticides in Water						
Our Reference		348333-48	348333-49	348333-50	348333-51	348333-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	70	85	79	66	67

Organochlorine Pesticides in Water						
Our Reference		348333-53	348333-54	348333-55	348333-56	348333-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	76	70	87	88	87

Organochlorine Pesticides in Water				
Our Reference		348333-58	348333-59	348333-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024
alpha-BHC	µg/L	<0.2	<0.2	<0.2
HCB	µg/L	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2
Surrogate 4-Chloro-3-NBTF	%	94	72	79

PCBs in Water						
Our Reference	UNITS	348333-8	348333-9	348333-10	348333-11	348333-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	60	84	85	93	92

PCBs in Water						
Our Reference	UNITS	348333-13	348333-14	348333-15	348333-16	348333-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	86	85	87	89	77

PCBs in Water						
Our Reference		348333-18	348333-19	348333-20	348333-21	348333-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	81	85	87	90	83

PCBs in Water						
Our Reference		348333-23	348333-24	348333-25	348333-26	348333-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	85	68	81	81	77

PCBs in Water						
Our Reference		348333-28	348333-29	348333-30	348333-31	348333-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	82	89	77	72	76

PCBs in Water						
Our Reference		348333-33	348333-34	348333-35	348333-36	348333-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	74	73	76	52	77

PCBs in Water						
Our Reference		348333-38	348333-39	348333-40	348333-41	348333-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	78	75	73	82	84

PCBs in Water						
Our Reference		348333-43	348333-44	348333-45	348333-46	348333-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	82	74	64	64	72

PCBs in Water						
Our Reference		348333-48	348333-49	348333-50	348333-51	348333-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	63	75	74	62	56

PCBs in Water						
Our Reference		348333-53	348333-54	348333-55	348333-56	348333-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	70	66	79	77	80

PCBs in Water				
Our Reference		348333-58	348333-59	348333-60
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water
Date extracted	-	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	11/04/2024	11/04/2024	11/04/2024
Aroclor 1016	µg/L	<2	<2	<2
Aroclor 1221	µg/L	<2	<2	<2
Aroclor 1232	µg/L	<2	<2	<2
Aroclor 1242	µg/L	<2	<2	<2
Aroclor 1248	µg/L	<2	<2	<2
Aroclor 1254	µg/L	<2	<2	<2
Aroclor 1260	µg/L	<2	<2	<2
Surrogate 2-Fluorobiphenyl	%	81	66	71

All metals in water - total						
Our Reference	UNITS	348333-8	348333-9	348333-10	348333-11	348333-12
Your Reference		3365/SW101	3365/SW102	3365/SW103	3365/SW201 W/1	3365/SW201 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	790	630	910	730	810
Arsenic-Total	µg/L	1	<1	<1	1	2
Chromium-Total	µg/L	2	<1	2	<1	1
Copper-Total	µg/L	4	2	5	1	2
Iron-Total	µg/L	2,400	550	1,500	1,100	1,400
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	2	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	11	11	16	4	5

All metals in water - total						
Our Reference	UNITS	348333-13	348333-14	348333-15	348333-16	348333-17
Your Reference		3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1	3365/SW203 W/2	3365/SW204 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	950	780	780	770	800
Arsenic-Total	µg/L	2	1	2	2	2
Chromium-Total	µg/L	1	1	<1	1	2
Copper-Total	µg/L	2	2	2	2	3
Iron-Total	µg/L	1,500	1,400	1,200	1,300	1,400
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	5	4	3	5	6

All metals in water - total

Our Reference		348333-18	348333-19	348333-20	348333-21	348333-22
Your Reference	UNITS	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2	3365/SW206 W/1	3365/SW206 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	510	730	750	760	740
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	1	1	1	1
Copper-Total	µg/L	2	2	2	2	2
Iron-Total	µg/L	890	1,300	1,400	1,400	1,300
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	11	5	4	4	4

All metals in water - total

Our Reference		348333-23	348333-24	348333-25	348333-26	348333-27
Your Reference	UNITS	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1	3365/SW208 W/2	3365/SW209 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	710	780	830	800	650
Arsenic-Total	µg/L	2	2	2	2	1
Chromium-Total	µg/L	1	<1	1	1	<1
Copper-Total	µg/L	2	2	2	3	1
Iron-Total	µg/L	1,500	1,500	1,400	1,500	1,200
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	4	5	4	4	4

All metals in water - total

Our Reference		348333-28	348333-29	348333-30	348333-31	348333-32
Your Reference	UNITS	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2	3365/SW211 W/1	3365/SW211 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	920	680	860	740	830
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	1	<1	1	1	1
Copper-Total	µg/L	2	2	2	2	2
Iron-Total	µg/L	1,800	1,200	1,400	1,300	1,400
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	6	4	6	4	4

All metals in water - total

Our Reference		348333-33	348333-34	348333-35	348333-36	348333-37
Your Reference	UNITS	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1	3365/SW213 W/2	3365/SW214 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	760	810	3,000	890	980
Arsenic-Total	µg/L	2	2	2	2	2
Chromium-Total	µg/L	<1	1	1	1	1
Copper-Total	µg/L	2	2	2	2	2
Iron-Total	µg/L	1,400	1,400	2,400	1,600	1,700
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	1	1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	5	4	6	7	6

All metals in water - total

Our Reference		348333-38	348333-39	348333-40	348333-41	348333-42
Your Reference	UNITS	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2	3365/SW216 W/1	3365/SW216 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	990	350	360	590	480
Arsenic-Total	µg/L	2	1	2	<2	<2
Chromium-Total	µg/L	1	<1	<1	<2	<2
Copper-Total	µg/L	2	2	1	<2	<2
Iron-Total	µg/L	1,700	620	680	880	710
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	<1	<1	<2	<2
Selenium-Total	µg/L	<1	<1	<1	<2	<2
Zinc-Total	µg/L	5	3	3	3	4

All metals in water - total

Our Reference		348333-43	348333-44	348333-45	348333-46	348333-47
Your Reference	UNITS	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1	3365/SW301 W/2	3365/SW302 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	390	200	1,300	1,400	1,400
Arsenic-Total	µg/L	<2	<2	<1	<1	<1
Chromium-Total	µg/L	<2	<2	2	2	2
Copper-Total	µg/L	<2	<2	2	2	2
Iron-Total	µg/L	540	330	1,200	1,200	1,700
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<2	<2	1	2	2
Selenium-Total	µg/L	<2	<2	<1	<1	<1
Zinc-Total	µg/L	3	5	6	6	6

All metals in water - total

Our Reference		348333-48	348333-49	348333-50	348333-51	348333-52
Your Reference	UNITS	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2	3365/SW304 W/1	3365/SW304 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	1,400	160	150	3,200	3,200
Arsenic-Total	µg/L	<1	2	2	<1	1
Chromium-Total	µg/L	2	<1	<1	4	4
Copper-Total	µg/L	2	<1	<1	2	3
Iron-Total	µg/L	2,100	210	200	2,800	3,000
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	2	<1	<1	4	4
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	5	<1	4	5	5

All metals in water - total

Our Reference		348333-53	348333-54	348333-55	348333-56	348333-57
Your Reference	UNITS	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1	3365/SW306 W/2	3365/SW307 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	1,500	1,600	70	70	480
Arsenic-Total	µg/L	1	1	2	2	1
Chromium-Total	µg/L	3	3	<1	<1	<1
Copper-Total	µg/L	2	3	<1	<1	2
Iron-Total	µg/L	2,100	1,900	100	120	1,000
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	2	2	<1	<1	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	6	7	4	3	9

All metals in water - total						
Our Reference		348333-58	348333-59	348333-60	348333-61	348333-62
Your Reference	UNITS	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2	3365/DUP01	3365/DUP02
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Aluminium-Total	µg/L	490	1,400	1,400	3,200	560
Arsenic-Total	µg/L	<1	<1	<1	<1	<1
Chromium-Total	µg/L	<1	3	3	3	<1
Copper-Total	µg/L	1	2	3	2	2
Iron-Total	µg/L	910	1,800	1,800	2,200	550
Mercury-Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Lead-Total	µg/L	<1	1	1	2	<1
Selenium-Total	µg/L	<1	<1	<1	<1	<1
Zinc-Total	µg/L	7	8	9	7	10

All metals in water - total			
Our Reference		348333-63	348333-64
Your Reference	UNITS	3365/DUP03	3365/DUP04
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water
Date prepared	-	10/04/2024	10/04/2024
Date analysed	-	10/04/2024	10/04/2024
Aluminium-Total	µg/L	900	740
Arsenic-Total	µg/L	2	2
Chromium-Total	µg/L	1	<1
Copper-Total	µg/L	2	1
Iron-Total	µg/L	1,900	1,500
Mercury-Total	µg/L	<0.05	<0.05
Lead-Total	µg/L	<1	<1
Selenium-Total	µg/L	<1	<1
Zinc-Total	µg/L	4	3

Metals in Waters - Acid extractable

Our Reference		348333-1	348333-2	348333-3	348333-4	348333-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.07	0.2	<0.05	2.6	<0.05

Metals in Waters - Acid extractable

Our Reference		348333-6	348333-7	348333-8	348333-9	348333-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.06	<0.05	0.2	0.07	<0.05

Metals in Waters - Acid extractable

Our Reference		348333-11	348333-12	348333-13	348333-14	348333-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.09	0.09	0.08	0.08	0.08

Metals in Waters - Acid extractable

Our Reference		348333-16	348333-17	348333-18	348333-19	348333-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.09	0.1	0.07	0.08	0.08

Metals in Waters - Acid extractable

Our Reference		348333-21	348333-22	348333-23	348333-24	348333-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.08	0.08	0.09	0.08	0.09

Metals in Waters - Acid extractable

Our Reference		348333-26	348333-27	348333-28	348333-29	348333-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.08	0.07	0.1	0.08	0.08

Metals in Waters - Acid extractable

Our Reference		348333-31	348333-32	348333-33	348333-34	348333-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.1	0.08	0.08	0.08	0.09

Metals in Waters - Acid extractable

Our Reference		348333-36	348333-37	348333-38	348333-39	348333-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.09	0.09	0.09	0.06	0.06

Metals in Waters - Acid extractable

Our Reference		348333-41	348333-42	348333-43	348333-44	348333-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.05	0.06	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		348333-46	348333-47	348333-48	348333-49	348333-50
Your Reference	UNITS	3365/SW301 W/2	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		348333-51	348333-52	348333-53	348333-54	348333-55
Your Reference	UNITS	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Metals in Waters - Acid extractable

Our Reference		348333-56	348333-57	348333-58	348333-59	348333-60
Your Reference	UNITS	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Date analysed	-	12/04/2024	12/04/2024	12/04/2024	12/04/2024	12/04/2024
Phosphorus - Total	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Miscellaneous Inorganics						
Our Reference		348333-1	348333-2	348333-3	348333-4	348333-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Nitrogen in water	mg/L	1.3	0.5	1.4	0.7	1.4
Phosphate as P in water	mg/L	<0.005	0.20	0.02	0.009	<0.005

Miscellaneous Inorganics						
Our Reference		348333-6	348333-7	348333-8	348333-9	348333-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	[NA]	[NA]	14	17	82
Total Nitrogen in water	mg/L	0.9	0.2	2.5	0.9	1.3
Phosphate as P in water	mg/L	0.076	<0.005	0.15	<0.005	<0.005
Chlorophyll a	mg/m ³	[NA]	[NA]	9	4	1

Miscellaneous Inorganics						
Our Reference		348333-11	348333-12	348333-13	348333-14	348333-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	27	27	28	33	24
Total Nitrogen in water	mg/L	0.6	0.7	0.6	0.6	0.6
Phosphate as P in water	mg/L	0.04	0.04	0.04	0.04	0.04
Chlorophyll a	mg/m ³	3	2	<1	2	<1

Miscellaneous Inorganics

Our Reference		348333-16	348333-17	348333-18	348333-19	348333-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	23	62	15	30	28
Total Nitrogen in water	mg/L	0.6	0.5	0.5	0.6	0.6
Phosphate as P in water	mg/L	0.04	0.02	0.02	0.03	0.04
Chlorophyll a	mg/m ³	5	7	2	2	1

Miscellaneous Inorganics

Our Reference		348333-21	348333-22	348333-23	348333-24	348333-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	30	28	32	31	29
Total Nitrogen in water	mg/L	0.6	0.6	0.6	0.6	0.6
Phosphate as P in water	mg/L	0.03	0.03	0.04	0.03	0.03
Chlorophyll a	mg/m ³	2	<1	2	3	2

Miscellaneous Inorganics

Our Reference		348333-26	348333-27	348333-28	348333-29	348333-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	33	34	32	32	27
Total Nitrogen in water	mg/L	0.6	0.6	0.6	0.5	0.6
Phosphate as P in water	mg/L	0.03	0.04	0.03	0.04	0.04
Chlorophyll a	mg/m ³	<1	2	4	<1	<1

Miscellaneous Inorganics

Our Reference		348333-31	348333-32	348333-33	348333-34	348333-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	31	28	30	33	34
Total Nitrogen in water	mg/L	0.7	0.6	0.6	0.6	0.6
Phosphate as P in water	mg/L	0.03	0.04	0.04	0.04	0.04
Chlorophyll a	mg/m ³	7	4	<1	1	1

Miscellaneous Inorganics

Our Reference		348333-36	348333-37	348333-38	348333-39	348333-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	34	30	29	16	14
Total Nitrogen in water	mg/L	0.6	0.6	0.6	0.4	0.4
Phosphate as P in water	mg/L	0.04	0.04	0.04	0.03	0.03
Chlorophyll a	mg/m ³	2	3	<1	1	<1

Miscellaneous Inorganics

Our Reference		348333-41	348333-42	348333-43	348333-44	348333-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	26	26	23	16	21
Total Nitrogen in water	mg/L	0.2	0.2	0.1	0.1	0.8
Phosphate as P in water	mg/L	0.02	0.02	0.02	0.02	<0.005
Chlorophyll a	mg/m ³	1	<1	1	<1	<1

Miscellaneous Inorganics

Our Reference		348333-46	348333-47	348333-48	348333-49	348333-50
Your Reference	UNITS	3365/SW301 W/2	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	16	36	54	<5	5
Total Nitrogen in water	mg/L	0.8	1	1.0	0.6	0.6
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	<1	2	2	3	2

Miscellaneous Inorganics

Our Reference		348333-51	348333-52	348333-53	348333-54	348333-55
Your Reference	UNITS	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	32	35	12	19	<5
Total Nitrogen in water	mg/L	1.3	1.1	1.4	1.3	0.6
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	2	2	1	3	1

Miscellaneous Inorganics

Our Reference		348333-56	348333-57	348333-58	348333-59	348333-60
Your Reference	UNITS	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Date analysed	-	09/04/2024	09/04/2024	09/04/2024	09/04/2024	09/04/2024
Total Suspended Solids	mg/L	<5	8	10	12	12
Total Nitrogen in water	mg/L	0.6	0.6	0.6	1.0	1.1
Phosphate as P in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorophyll a	mg/m ³	1	33	22	1	2

Miscellaneous Inorganics		
Our Reference		348333-65
Your Reference	UNITS	3365/GW DUP01
Sampling Period Dates		07/04/2024- 08/04/2024
Type of sample		Water
Date prepared	-	09/04/2024
Date analysed	-	09/04/2024
pH	pH Units	6.1
Electrical Conductivity	µS/cm	3,400

Microbiological Testing

Our Reference		348333-1	348333-2	348333-3	348333-4	348333-5
Your Reference	UNITS	3365/GW201	3365/GW202	3365/GW203	3365/GW204	3365/GW205
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
Faecal Coliforms	cfu/100mL	<10	<100	1,000 NBO	20 mpn/100mL	1,700 mpn/100mL

Microbiological Testing

Our Reference		348333-6	348333-7	348333-8	348333-9	348333-10
Your Reference	UNITS	3365/GW206	3365/GW207	3365/SW101	3365/SW102	3365/SW103
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	[NA]	[NA]	<1,000 NBO	380	1,000 NBO
Faecal Coliforms	cfu/100mL	<1,000	10 A	<1,000 NBO	380	1,000 NBO

Microbiological Testing

Our Reference		348333-11	348333-12	348333-13	348333-14	348333-15
Your Reference	UNITS	3365/SW201 W/1	3365/SW201 W/2	3365/SW202 W/1	3365/SW202 W/2	3365/SW203 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	11,000 NBO	2,000	3,000	2,000	12,000
Faecal Coliforms	cfu/100mL	11,000 NBO	2,000	3,000	2,000	12,000

Microbiological Testing

Our Reference		348333-16	348333-17	348333-18	348333-19	348333-20
Your Reference	UNITS	3365/SW203 W/2	3365/SW204 W/1	3365/SW204 W/2	3365/SW205 W/1	3365/SW205 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	5,000	<1,000	<1,000	3,000	12,000
Faecal Coliforms	cfu/100mL	5,000	<1,000	<1,000	3,000	12,000

Microbiological Testing

Our Reference		348333-21	348333-22	348333-23	348333-24	348333-25
Your Reference	UNITS	3365/SW206 W/1	3365/SW206 W/2	3365/SW207 W/1	3365/SW207 W/2	3365/SW208 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	5,000	5,000	700	11,000	3,800
Faecal Coliforms	cfu/100mL	5,000	5,000	700	11,000	3,800

Microbiological Testing

Our Reference		348333-26	348333-27	348333-28	348333-29	348333-30
Your Reference	UNITS	3365/SW208 W/2	3365/SW209 W/1	3365/SW209 W/2	3365/SW210 W/1	3365/SW210 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	2,000	5,000	9,000	8,000	5,000
Faecal Coliforms	cfu/100mL	2,000	5,000	9,000	8,000	5,000

Microbiological Testing

Our Reference		348333-31	348333-32	348333-33	348333-34	348333-35
Your Reference	UNITS	3365/SW211 W/1	3365/SW211 W/2	3365/SW212 W/1	3365/SW212 W/2	3365/SW213 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	2,000	4,000	8,000	3,000	1,800
Faecal Coliforms	cfu/100mL	2,000	4,000	8,000	3,000	1,800

Microbiological Testing

Our Reference		348333-36	348333-37	348333-38	348333-39	348333-40
Your Reference	UNITS	3365/SW213 W/2	3365/SW214 W/1	3365/SW214 W/2	3365/SW215 W/1	3365/SW215 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	4,000	14,000	7,000	700	1,000
Faecal Coliforms	cfu/100mL	4,000	14,000	7,000	700	1,000

Microbiological Testing

Our Reference		348333-41	348333-42	348333-43	348333-44	348333-45
Your Reference	UNITS	3365/SW216 W/1	3365/SW216 W/2	3365/SW217 W/1	3365/SW217 W/2	3365/SW301 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	1,500	1,100	900	500	900
Faecal Coliforms	cfu/100mL	1,500	1,100	900	500	900

Microbiological Testing

Our Reference		348333-46	348333-47	348333-48	348333-49	348333-50
Your Reference	UNITS	3365/SW301 W/2	3365/SW302 W/1	3365/SW302 W/2	3365/SW303 W/1	3365/SW303 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	800	2,000	<1,000	150	100
Faecal Coliforms	cfu/100mL	800	2,000	<1,000	150	100

Microbiological Testing

Our Reference		348333-51	348333-52	348333-53	348333-54	348333-55
Your Reference	UNITS	3365/SW304 W/1	3365/SW304 W/2	3365/SW305 W/1	3365/SW305 W/2	3365/SW306 W/1
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	200	230	100	<100	<100
Faecal Coliforms	cfu/100mL	200	230	200	<100	<100

Microbiological Testing

Our Reference		348333-56	348333-57	348333-58	348333-59	348333-60
Your Reference	UNITS	3365/SW306 W/2	3365/SW307 W/1	3365/SW307 W/2	3365/SW308 W/1	3365/SW308 W/2
Sampling Period Dates		07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024	07/04/2024-08/04/2024
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/04/2024	10/04/2024	10/04/2024	10/04/2024	10/04/2024
E. coli	cfu/100mL	>10/<100	6,000 NBO	3,000	1,000	>100/<1,000
Faecal Coliforms	cfu/100mL	>10/<100	6,000 NBO	3,000	2,000	>100/<1,000

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-019	Suspended Solids - determined gravimetrically by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determined stoichiometrically from the base metal concentration.
Org-020	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-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	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)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			12/04/2024	8	12/04/2024	15/04/2024		12/04/2024	[NT]
Date analysed	-			15/04/2024	8	15/04/2024	16/04/2024		15/04/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	8	<10	<10	0	105	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	8	<10	<10	0	105	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	8	97	103	6	103	[NT]
Surrogate Toluene-d8	%		Org-023	97	8	98	98	0	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	101	8	101	95	6	102	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			[NT]	19	12/04/2024	15/04/2024		12/04/2024	[NT]
Date analysed	-			[NT]	19	15/04/2024	16/04/2024		15/04/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	19	<10	<10	0	112	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	19	<10	<10	0	112	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	19	101	100	1	98	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	19	97	98	1	98	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	19	101	97	4	103	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			[NT]	29	12/04/2024	15/04/2024		12/04/2024	[NT]
Date analysed	-			[NT]	29	15/04/2024	16/04/2024		15/04/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	29	<10	<10	0	112	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	29	<10	<10	0	112	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	29	100	101	1	96	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	29	99	100	1	98	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	29	99	96	3	101	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date extracted	-			[NT]	39	12/04/2024	15/04/2024		12/04/2024	[NT]
Date analysed	-			[NT]	39	15/04/2024	16/04/2024		15/04/2024	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	39	<10	<10	0	111	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	39	<10	<10	0	111	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	39	103	102	1	88	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	39	98	99	1	99	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	39	103	97	6	100	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	49	12/04/2024	15/04/2024		[NT]	[NT]
Date analysed	-			[NT]	49	15/04/2024	16/04/2024		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	49	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	49	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	49	111	101	9	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	49	98	98	0	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	49	102	96	6	[NT]	[NT]

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	12/04/2024	15/04/2024		[NT]	[NT]
Date analysed	-			[NT]	59	15/04/2024	16/04/2024		[NT]	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	59	<10	<10	0	[NT]	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	59	<10	<10	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	59	106	98	8	[NT]	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	59	98	97	1	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	59	103	96	7	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	348333-10
Date extracted	-			10/04/2024	9	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			11/04/2024	9	11/04/2024	11/04/2024		11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	9	80	64	22	105	104
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	9	260	190	31	106	110
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	9	<100	<100	0	100	99
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	9	180	130	32	105	104
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	9	190	140	30	106	110
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	9	<100	<100	0	100	99
Surrogate o-Terphenyl	%		Org-020	87	9	97	80	19	90	85

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	348333-20
Date extracted	-			[NT]	19	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	19	11/04/2024	11/04/2024		11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	19	<50	<50	0	102	108
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	19	<100	<100	0	104	101
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	19	<100	<100	0	100	95
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	19	<50	<50	0	102	108
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	19	<100	<100	0	104	101
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	19	<100	<100	0	100	95
Surrogate o-Terphenyl	%		Org-020	[NT]	19	83	88	6	87	106

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	348333-30
Date extracted	-			[NT]	29	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	29	11/04/2024	11/04/2024		11/04/2024	11/04/2024
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	29	<50	<50	0	104	104
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	29	<100	<100	0	108	110
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	29	<100	<100	0	114	107
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	29	<50	<50	0	104	104
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	29	<100	<100	0	108	110
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	29	<100	<100	0	114	107
Surrogate o-Terphenyl	%		Org-020	[NT]	29	88	91	3	89	94

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QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	39	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	39	11/04/2024	11/04/2024		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	39	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	39	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	39	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	39	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	39	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	39	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	39	89	93	4	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	49	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	49	11/04/2024	11/04/2024		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	49	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	49	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	49	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	49	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	49	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	49	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	49	85	80	6	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	59	11/04/2024	11/04/2024		[NT]	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	59	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	59	100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	59	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	59	100	98	2	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	59	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	59	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	59	83	83	0	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	348333-10
Date extracted	-			10/04/2024	9	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			11/04/2024	9	11/04/2024	11/04/2024		11/04/2024	11/04/2024
Naphthalene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	85	86
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	86	79
Fluorene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	82	84
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	90	90
Anthracene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	86	83
Pyrene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	89	85
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	67	71
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	84	86
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	9	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	83	9	88	80	10	92	86

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	348333-20
Date extracted	-			[NT]	19	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	19	11/04/2024	11/04/2024		11/04/2024	11/04/2024
Naphthalene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	82	101
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	83	85
Fluorene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	81	87
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	83	99
Anthracene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	83	93
Pyrene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	81	96
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	69	75
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	82	91
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	19	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	19	92	100	8	78	93

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QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	348333-40
Date extracted	-			[NT]	29	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	29	11/04/2024	11/04/2024		11/04/2024	11/04/2024
Naphthalene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	73	99
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	77	96
Fluorene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	71	94
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	76	97
Anthracene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	75	98
Pyrene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	76	98
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	63	79
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	74	93
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	29	96	95	1	77	81

QUALITY CONTROL: PAHs in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-50
Date extracted	-			[NT]	39	10/04/2024	10/04/2024		[NT]	10/04/2024
Date analysed	-			[NT]	39	11/04/2024	11/04/2024		[NT]	11/04/2024
Naphthalene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	89
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	92
Fluorene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	88
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	87
Anthracene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	91
Pyrene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	88
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	70
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	84
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	39	100	96	4	[NT]	86

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QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-58
Date extracted	-			[NT]	49	10/04/2024	10/04/2024		[NT]	10/04/2024
Date analysed	-			[NT]	49	11/04/2024	11/04/2024		[NT]	11/04/2024
Naphthalene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	80
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	86
Fluorene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	80
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	86
Anthracene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	83
Pyrene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	84
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	66
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	85
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	49	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	49	96	87	10	[NT]	83

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	59	11/04/2024	11/04/2024		[NT]	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	59	77	80	4	[NT]	[NT]

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QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	348333-10
Date extracted	-			10/04/2024	9	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			11/04/2024	9	11/04/2024	11/04/2024		11/04/2024	11/04/2024
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	88	75
HCB	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	92	76
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	91	66
delta-BHC	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	98	80
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	102	86
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	106	88
Dieldrin	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	109	92
Endrin	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	98	79
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	96	79
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	84	70
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	9	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	75	9	91	87	4	87	87

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	348333-20
Date extracted	-			[NT]	19	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	19	11/04/2024	11/04/2024		11/04/2024	11/04/2024
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	78	81
HCB	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	86	84
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	81	83
delta-BHC	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	84	87
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	92	94
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	89	98
Dieldrin	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	107	103
Endrin	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	93	88
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	81	89
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	74	77
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	19	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	19	93	91	2	76	85

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	348333-40
Date extracted	-			[NT]	29	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	29	11/04/2024	11/04/2024		11/04/2024	11/04/2024
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	71	91
HCB	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	81	106
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	79	93
delta-BHC	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	75	95
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	82	100
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	82	98
Dieldrin	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	104	111
Endrin	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	80	98
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	72	93
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	68	86
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	29	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	29	93	82	13	72	79

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-50
Date extracted	-			[NT]	39	10/04/2024	10/04/2024		[NT]	10/04/2024
Date analysed	-			[NT]	39	11/04/2024	11/04/2024		[NT]	11/04/2024
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	86
HCB	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	99
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	89
delta-BHC	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	86
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	94
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	90
Dieldrin	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	112
Endrin	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	101
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	86
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	83
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	39	85	85	0	[NT]	83

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-58
Date extracted	-			[NT]	49	10/04/2024	10/04/2024		[NT]	10/04/2024
Date analysed	-			[NT]	49	11/04/2024	11/04/2024		[NT]	11/04/2024
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	81
HCB	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	84
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	75
delta-BHC	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	81
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	94
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	85
Dieldrin	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	90
Endrin	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	82
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	85
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	92
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	49	85	80	6	[NT]	92

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	59	11/04/2024	11/04/2024		[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
HCB	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
delta-BHC	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Dieldrin	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endrin	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	59	72	74	3	[NT]	[NT]

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	348333-10
Date extracted	-			10/04/2024	9	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			11/04/2024	9	11/04/2024	11/04/2024		11/04/2024	11/04/2024
Aroclor 1016	µg/L	2	Org-021/022/025	<2	9	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	<2	9	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	<2	9	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	<2	9	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	<2	9	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	<2	9	<2	<2	0	90	92
Aroclor 1260	µg/L	2	Org-021/022/025	<2	9	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	71	9	84	77	9	93	86

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	348333-20
Date extracted	-			[NT]	19	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	19	11/04/2024	11/04/2024		11/04/2024	11/04/2024
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	19	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	19	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	19	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	19	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	19	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	19	<2	<2	0	88	100
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	19	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	19	85	91	7	70	91

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	348333-40
Date extracted	-			[NT]	29	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	29	11/04/2024	11/04/2024		11/04/2024	11/04/2024
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	74	116
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	29	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	29	89	81	9	62	69

Client Reference: P1203365 – Water Sampling, West Culburra, NSW

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-50
Date extracted	-			[NT]	39	10/04/2024	10/04/2024		[NT]	10/04/2024
Date analysed	-			[NT]	39	11/04/2024	11/04/2024		[NT]	11/04/2024
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	77
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	39	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	39	75	79	5	[NT]	71

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-58
Date extracted	-			[NT]	49	10/04/2024	10/04/2024		[NT]	10/04/2024
Date analysed	-			[NT]	49	11/04/2024	11/04/2024		[NT]	11/04/2024
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	82
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	49	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	49	75	75	0	[NT]	60

QUALITY CONTROL: PCBs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	59	11/04/2024	11/04/2024		[NT]	[NT]
Aroclor 1016	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Aroclor 1260	µg/L	2	Org-021/022/025	[NT]	59	<2	<2	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	59	66	67	2	[NT]	[NT]

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QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	348333-9
Date prepared	-			10/04/2024	8	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			10/04/2024	8	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Aluminium-Total	µg/L	10	Metals-022	<10	8	790	800	1	88	[NT]
Arsenic-Total	µg/L	1	Metals-022	<1	8	1	<1	0	100	[NT]
Chromium-Total	µg/L	1	Metals-022	<1	8	2	2	0	96	[NT]
Copper-Total	µg/L	1	Metals-022	<1	8	4	4	0	93	[NT]
Iron-Total	µg/L	10	Metals-022	<10	8	2400	2200	9	102	[NT]
Mercury-Total	µg/L	0.05	Metals-021	<0.05	8	<0.05	<0.05	0	106	97
Lead-Total	µg/L	1	Metals-022	<1	8	<1	<1	0	106	[NT]
Selenium-Total	µg/L	1	Metals-022	<1	8	<1	<1	0	103	[NT]
Zinc-Total	µg/L	1	Metals-022	<1	8	11	12	9	94	[NT]

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	348333-10
Date prepared	-			[NT]	20	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	20	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	20	750	630	17	93	#
Arsenic-Total	µg/L	1	Metals-022	[NT]	20	2	1	67	101	98
Chromium-Total	µg/L	1	Metals-022	[NT]	20	1	<1	0	99	94
Copper-Total	µg/L	1	Metals-022	[NT]	20	2	1	67	96	91
Iron-Total	µg/L	10	Metals-022	[NT]	20	1400	1500	7	104	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	20	<0.05	[NT]		108	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	20	<1	<1	0	106	90
Selenium-Total	µg/L	1	Metals-022	[NT]	20	<1	<1	0	105	97
Zinc-Total	µg/L	1	Metals-022	[NT]	20	4	3	29	96	92

QUALITY CONTROL: All metals in water - total					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	348333-29
Date prepared	-			[NT]	21	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Date analysed	-			[NT]	21	10/04/2024	10/04/2024		10/04/2024	10/04/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	21	760	[NT]		81	#
Arsenic-Total	µg/L	1	Metals-022	[NT]	21	2	[NT]		96	105
Chromium-Total	µg/L	1	Metals-022	[NT]	21	1	[NT]		89	103
Copper-Total	µg/L	1	Metals-022	[NT]	21	2	[NT]		87	95
Iron-Total	µg/L	10	Metals-022	[NT]	21	1400	[NT]		92	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	21	<0.05	<0.05	0	107	100
Lead-Total	µg/L	1	Metals-022	[NT]	21	<1	[NT]		98	88
Selenium-Total	µg/L	1	Metals-022	[NT]	21	<1	[NT]		101	100
Zinc-Total	µg/L	1	Metals-022	[NT]	21	4	[NT]		90	97

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QUALITY CONTROL: All metals in water - total					Duplicate		Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-49
Date prepared	-			[NT]	28	10/04/2024	10/04/2024		[NT]	10/04/2024
Date analysed	-			[NT]	28	10/04/2024	10/04/2024		[NT]	10/04/2024
Aluminium-Total	µg/L	10	Metals-022	[NT]	28	920	920	0	[NT]	#
Arsenic-Total	µg/L	1	Metals-022	[NT]	28	2	2	0	[NT]	110
Chromium-Total	µg/L	1	Metals-022	[NT]	28	1	1	0	[NT]	108
Copper-Total	µg/L	1	Metals-022	[NT]	28	2	2	0	[NT]	95
Iron-Total	µg/L	10	Metals-022	[NT]	28	1800	1800	0	[NT]	#
Mercury-Total	µg/L	0.05	Metals-021	[NT]	28	<0.05	<0.05	0	[NT]	102
Lead-Total	µg/L	1	Metals-022	[NT]	28	<1	<1	0	[NT]	84
Selenium-Total	µg/L	1	Metals-022	[NT]	28	<1	<1	0	[NT]	102
Zinc-Total	µg/L	1	Metals-022	[NT]	28	6	6	0	[NT]	100

QUALITY CONTROL: All metals in water - total					Duplicate		Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	35	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	35	10/04/2024	10/04/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	35	3000	2900	3	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	35	2	2	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	35	1	1	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	35	2	2	0	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	35	2400	2400	0	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	35	<0.05	[NT]		[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	35	1	1	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	35	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	35	6	5	18	[NT]	[NT]

QUALITY CONTROL: All metals in water - total					Duplicate		Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	40	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	40	10/04/2024	10/04/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	40	360	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	40	2	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	40	<1	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	40	1	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	40	680	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	40	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	40	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	40	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	40	3	[NT]		[NT]	[NT]

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QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	48	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	48	10/04/2024	10/04/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	48	1400	1400	0	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	48	<1	<1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	48	2	3	40	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	48	2	3	40	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	48	2100	2100	0	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	48	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	48	2	2	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	48	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	48	5	5	0	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	53	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	53	10/04/2024	10/04/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	53	1500	1500	0	[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	53	1	<1	0	[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	53	3	3	0	[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	53	2	3	40	[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	53	2100	2100	0	[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	53	<0.05	[NT]		[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	53	2	2	0	[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	53	<1	<1	0	[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	53	6	6	0	[NT]	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	58	10/04/2024	10/04/2024		[NT]	[NT]
Date analysed	-			[NT]	58	10/04/2024	10/04/2024		[NT]	[NT]
Aluminium-Total	µg/L	10	Metals-022	[NT]	58	490	[NT]		[NT]	[NT]
Arsenic-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Chromium-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Copper-Total	µg/L	1	Metals-022	[NT]	58	1	[NT]		[NT]	[NT]
Iron-Total	µg/L	10	Metals-022	[NT]	58	910	[NT]		[NT]	[NT]
Mercury-Total	µg/L	0.05	Metals-021	[NT]	58	<0.05	<0.05	0	[NT]	[NT]
Lead-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Selenium-Total	µg/L	1	Metals-022	[NT]	58	<1	[NT]		[NT]	[NT]
Zinc-Total	µg/L	1	Metals-022	[NT]	58	7	[NT]		[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	348333-3
Date prepared	-			12/04/2024	2	12/04/2024	12/04/2024		12/04/2024	12/04/2024
Date analysed	-			12/04/2024	2	12/04/2024	12/04/2024		12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	2	0.2	0.2	0	88	95

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	348333-22
Date prepared	-			[NT]	12	12/04/2024	12/04/2024		12/04/2024	12/04/2024
Date analysed	-			[NT]	12	12/04/2024	12/04/2024		12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	12	0.09	0.08	12	96	111

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	348333-42
Date prepared	-			[NT]	21	12/04/2024	12/04/2024		12/04/2024	12/04/2024
Date analysed	-			[NT]	21	12/04/2024	12/04/2024		12/04/2024	12/04/2024
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	21	0.08	0.08	0	88	122

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	32	12/04/2024	12/04/2024		[NT]	[NT]
Date analysed	-			[NT]	32	12/04/2024	12/04/2024		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	32	0.08	0.08	0	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	12/04/2024	12/04/2024		[NT]	[NT]
Date analysed	-			[NT]	41	12/04/2024	12/04/2024		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	41	0.05	0.06	18	[NT]	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	12/04/2024	12/04/2024		[NT]	[NT]
Date analysed	-			[NT]	51	12/04/2024	12/04/2024		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	51	<0.05	<0.05	0	[NT]	[NT]

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QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	348333-2
Date prepared	-			09/04/2024	1	09/04/2024	09/04/2024		09/04/2024	09/04/2024
Date analysed	-			09/04/2024	1	09/04/2024	09/04/2024		09/04/2024	09/04/2024
Total Suspended Solids	mg/L	5	Inorg-019	<5	8	14	12	15	96	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	1	1.3	1.3	0	90	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	1	<0.005	<0.005	0	108	112
Chlorophyll a	mg/m ³	1	INORG-119	<1	8	9	[NT]		80	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	348333-5
Date prepared	-			[NT]	8	09/04/2024	09/04/2024		09/04/2024	09/04/2024
Date analysed	-			[NT]	8	09/04/2024	09/04/2024		09/04/2024	09/04/2024
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	11	27	[NT]		86	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	8	2.5	[NT]		93	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	8	0.15	[NT]		109	109
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	11	3	[NT]		93	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	348333-8
Date prepared	-			[NT]	11	09/04/2024	09/04/2024		09/04/2024	09/04/2024
Date analysed	-			[NT]	11	09/04/2024	09/04/2024		09/04/2024	09/04/2024
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	20	28	28	0	90	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	11	0.6	0.6	0	93	78
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	11	0.04	0.04	0	119	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	20	1	[NT]		88	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-28
Date prepared	-			[NT]	20	09/04/2024	09/04/2024		[NT]	09/04/2024
Date analysed	-			[NT]	20	09/04/2024	09/04/2024		[NT]	09/04/2024
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	20	0.6	[NT]		[NT]	82
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	20	0.04	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	21	30	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	21	2	[NT]		[NT]	[NT]

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QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-45
Date prepared	-			[NT]	21	09/04/2024	09/04/2024		[NT]	09/04/2024
Date analysed	-			[NT]	21	09/04/2024	09/04/2024		[NT]	09/04/2024
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	21	0.6	0.5	18	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	21	0.03	0.04	29	[NT]	111
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	28	32	33	3	[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	28	4	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	348333-48
Date prepared	-			[NT]	28	09/04/2024	09/04/2024		[NT]	09/04/2024
Date analysed	-			[NT]	28	09/04/2024	09/04/2024		[NT]	09/04/2024
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	28	0.6	[NT]		[NT]	85
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	28	0.03	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	31	31	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	31	7	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	31	09/04/2024	09/04/2024		[NT]	[NT]
Date analysed	-			[NT]	31	09/04/2024	09/04/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	31	0.7	0.7	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	31	0.03	0.04	29	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	41	26	[NT]		[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	41	1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	41	09/04/2024	09/04/2024		[NT]	[NT]
Date analysed	-			[NT]	41	09/04/2024	09/04/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	41	0.2	0.2	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	41	0.02	0.02	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	45	21	21	0	[NT]	[NT]
Chlorophyll a	mg/m ³	1	INORG-119	[NT]	45	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	45	09/04/2024	09/04/2024		[NT]	[NT]
Date analysed	-			[NT]	45	09/04/2024	09/04/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	45	0.8	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	45	<0.005	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	50	5	<5	0	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	50	2	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	50	09/04/2024	09/04/2024		[NT]	[NT]
Date analysed	-			[NT]	50	09/04/2024	09/04/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	50	0.6	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	50	<0.005	[NT]		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	51	32	[NT]		[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	51	2	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	09/04/2024	09/04/2024		[NT]	[NT]
Date analysed	-			[NT]	51	09/04/2024	09/04/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	51	1.3	1.3	0	[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	60	12	16	29	[NT]	[NT]
Chlorophyll a	mg/m³	1	INORG-119	[NT]	60	2	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	60	09/04/2024	09/04/2024		[NT]	[NT]
Date analysed	-			[NT]	60	09/04/2024	09/04/2024		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	[NT]	60	1.1	[NT]		[NT]	[NT]
Phosphate as P in water	mg/L	0.005	Inorg-060	[NT]	60	<0.005	<0.005	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

MISC_INORG: Phosphate # Percent recovery not reported due to the high concentration of the analyte/s in the sample/s. However, an acceptable recovery was obtained for the LCS.

All metals in water - total:

- # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.
- The PQLs for samples #41-44 has been raised 2 times due to suppression of the internal standard, which required the samples to be diluted. This is likely due to the high level of salts in the sample.

Microbiology analysed by Sonic Food & Water Testing. Report No. W2408436, W2408428-434

NBO: The presence of competing background organisms in the sample may have reduced the count.

A: Approximate

The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised