



DEW - Department of Environment and Water
ATTN: Patrick Betham
24-26 Tikalara street
Regency Park
SA 5010 AUSTRALIA

07/04/2020

Dear Patrick

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2020-CSR-2
Account: 143419
Project: AWQC-146319 DEW - Healthy Coorong Healthy Basin Phase 1 - Adhoc
AWQC Morella sampling - 19/20

This report has also been sent to: Frank Mangeruca Peter Metten

AWQC Sample Receipt hours are Monday and Tuesday 8:30am to 8pm and Wednesday, Thursday and Friday 8:30am to 4:30pm.

Yours sincerely,

Darren Seebohm
Customer Services Officer
Darren.Seebohm@sawater.com.au
+61 8 7424 2150



FINAL REPORT: 279739

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Report Information

Project Name	AWQC-146319
Customer	DEW - Department of Environment and Water
CSR_ID	143419-2020-CSR-2

Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:40AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3816
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			17/03/2020
Chlorophyll a	0.1	46.9 µg/L	
Phaeophytin a	0.1	<0.1 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Ammonia as N (ADEL)			25/03/2020
# Ammonia as N	1	90 µg/L	
Chloride T0104-02(ADEL)			17/03/2020
Chloride	4.0	71500 mg/L	
Nitrate + Nitrite as N (ADEL)			25/03/2020
# Nitrate + Nitrite as N	0.5	3.1 µg/L	
# Nitrate + Nitrite as NO3	2.3	13.7 µg/L	
# Nitrate as Nitrogen		1.59 µg/L	
Nitrite as N (ADEL)			25/03/2020
# Nitrite as N	0.5	1.5 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			17/03/2020
Nitrogen - Total		6.69 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			25/03/2020
# Phosphorus -Filterable Reactive as PO4	1.5	7.774 µg/L	
Phosphorus-Filterable Reactive as P	0.5	2.6 µg/L	
Phosphorus - Total T0109-44(ADEL)			26/03/2020
Phosphorus - Total	0.005	0.198 mg/L	
Silica - Reactive T0111-01(ADEL)			17/03/2020
Silica - Reactive	0.05	2.04 mg/L	
TKN as N T0112-01(ADEL)			26/03/2020
TKN as Nitrogen	0.05	6.69 mg/L	



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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:40AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3816
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	28.9 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	37.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		218 mg/L	
Bicarbonate		265 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.8 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	25 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	25 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	137000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	10 mg/L	
Volatile Suspended Solids	1	15 mg/L	



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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:58:48AM
Sample Analysis Completed	1/04/2020 9:39:51PM
Sample ID	2020-002-3817
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/03/2020

Chlorophyll a	0.1	31.4 µg/L
Phaeophytin a	0.1	12.9 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Ammonia as N T0100-01(ADEL) 01/04/2020

Ammonia as N	0.005	0.162 mg/L
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Chloride T0104-02(ADEL) 17/03/2020

Chloride	4.0	6230 mg/L
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Nitrate + Nitrite as N (ADEL) 25/03/2020

# Nitrate + Nitrite as N	0.5	24.4 µg/L
# Nitrate + Nitrite as NO ₃	2.3	108 µg/L
# Nitrate as Nitrogen		20.7 µg/L

Nitrite as N (ADEL) 25/03/2020

# Nitrite as N	0.5	3.7 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/03/2020

Nitrogen - Total		2.23 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 25/03/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	23.322 µg/L
Phosphorus-Filterable Reactive as P	0.5	7.8 µg/L

Phosphorus - Total T0109-44(ADEL) 26/03/2020

Phosphorus - Total	0.005	0.086 mg/L
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Silica - Reactive T0111-01(ADEL) 17/03/2020

Silica - Reactive	0.05	0.27 mg/L
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TKN as N T0112-01(ADEL) 26/03/2020

TKN as Nitrogen	0.05	2.21 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:58:48AM
Sample Analysis Completed	1/04/2020 9:39:51PM
Sample ID	2020-002-3817
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	7.9 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	17.1 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		120 mg/L	
Bicarbonate		146 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.6 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			18/03/2020
Turbidity	0.1	34 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	43 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	10600 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	20 mg/L	
Volatile Suspended Solids	1	23 mg/L	



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:58:43AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3818
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/03/2020

Chlorophyll a	0.1	5.24 µg/L
Phaeophytin a	0.1	1.70 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Ammonia as N (ADEL) 25/03/2020

# Ammonia as N	1	22 µg/L
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Chloride T0104-02(ADEL) 17/03/2020

Chloride	4.0	29800 mg/L
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Nitrate + Nitrite as N (ADEL) 25/03/2020

# Nitrate + Nitrite as N	0.5	11.5 µg/L
# Nitrate + Nitrite as NO ₃	2.3	50.9 µg/L
# Nitrate as Nitrogen		8.74 µg/L

Nitrite as N (ADEL) 25/03/2020

# Nitrite as N	0.5	2.8 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/03/2020

Nitrogen - Total		2.76 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 25/03/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	12.857 µg/L
Phosphorus-Filterable Reactive as P	0.5	4.3 µg/L

Phosphorus - Total T0109-44(ADEL) 26/03/2020

Phosphorus - Total	0.005	0.075 mg/L
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Silica - Reactive T0111-01(ADEL) 17/03/2020

Silica - Reactive	0.05	0.77 mg/L
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TKN as N T0112-01(ADEL) 26/03/2020

TKN as Nitrogen	0.05	2.75 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:58:43AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3818
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)		20/03/2020
Dissolved Organic Carbon	1	13.0 mg/L
Total Organic Carbon T0158-07(ADEL)		20/03/2020
Total Organic Carbon	1	13.7 mg/L

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		170 mg/L	
Bicarbonate		208 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		8.1 pH units	
Temperature at which pH is measured		23.4 °C	
Turbidity T0018-01(ADEL)			18/03/2020
Turbidity	0.1	5.6 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	8 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	52300 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	5 mg/L	
Volatile Suspended Solids	1	3 mg/L	



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:30AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3819
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			17/03/2020
Chlorophyll a	0.1	48.3 µg/L	
Phaeophytin a	0.1	12.7 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Ammonia as N (ADEL)			25/03/2020
# Ammonia as N	1	79 µg/L	
Chloride T0104-02(ADEL)			17/03/2020
Chloride	4.0	66100 mg/L	
Nitrate + Nitrite as N (ADEL)			25/03/2020
# Nitrate + Nitrite as N	0.5	3.1 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	13.7 µg/L	
# Nitrate as Nitrogen		0.385 µg/L	
Nitrite as N (ADEL)			25/03/2020
# Nitrite as N	0.5	2.7 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			17/03/2020
Nitrogen - Total		6.61 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			25/03/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	8.97 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.0 µg/L	
Phosphorus - Total T0109-44(ADEL)			26/03/2020
Phosphorus - Total	0.005	0.139 mg/L	
Silica - Reactive T0111-01(ADEL)			17/03/2020
Silica - Reactive	0.05	2.04 mg/L	
TKN as N T0112-01(ADEL)			26/03/2020
TKN as Nitrogen	0.05	6.61 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:30AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3819
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	28.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	36.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		215 mg/L	
Bicarbonate		262 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	30 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	33 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	129000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	3 mg/L	
Volatile Suspended Solids	1	30 mg/L	



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:49AM
Sample Analysis Completed	1/04/2020 5:40:50PM
Sample ID	2020-002-3820
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/03/2020

Chlorophyll a	0.1	65.8 µg/L
Phaeophytin a	0.1	12.7 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Ammonia as N (ADEL) 25/03/2020

# Ammonia as N	1	83 µg/L
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Chloride T0104-02(ADEL) 17/03/2020

Chloride	4.0	65500 mg/L
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Nitrate + Nitrite as N (ADEL) 25/03/2020

# Nitrate + Nitrite as N	0.5	5.2 µg/L
# Nitrate + Nitrite as NO ₃	2.3	23.0 µg/L
# Nitrate as Nitrogen		4.06 µg/L

Nitrite as N (ADEL) 25/03/2020

# Nitrite as N	0.5	1.1 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/03/2020

Nitrogen - Total		6.13 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 25/03/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	5.98 µg/L
Phosphorus-Filterable Reactive as P	0.5	2.0 µg/L

Phosphorus - Total T0109-44(ADEL) 26/03/2020

Phosphorus - Total	0.005	0.156 mg/L
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Silica - Reactive T0111-01(ADEL) 17/03/2020

Silica - Reactive	0.05	5.01 mg/L
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TKN as N T0112-01(ADEL) 26/03/2020

TKN as Nitrogen	0.05	6.12 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:49AM
Sample Analysis Completed	1/04/2020 5:40:50PM
Sample ID	2020-002-3820
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	27.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	35.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		223 mg/L	
Bicarbonate		272 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	13 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	30 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	128000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	7 mg/L	
Volatile Suspended Solids	1	23 mg/L	



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:11AM
Sample Analysis Completed	1/04/2020 9:39:52PM
Sample ID	2020-002-3821
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			17/03/2020
Chlorophyll a	0.1	29.4 µg/L	
Phaeophytin a	0.1	4.46 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Ammonia as N T0100-01(ADEL)			01/04/2020
Ammonia as N	0.005	0.062 mg/L	
Chloride T0104-02(ADEL)			17/03/2020
Chloride	4.0	77100 mg/L	
Nitrate + Nitrite as N (ADEL)			25/03/2020
# Nitrate + Nitrite as N	0.5	8.9 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	39.4 µg/L	
# Nitrate as Nitrogen		6.09 µg/L	
Nitrite as N (ADEL)			25/03/2020
# Nitrite as N	0.5	2.8 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			17/03/2020
Nitrogen - Total		8.44 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			25/03/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	12.857 µg/L	
Phosphorus-Filterable Reactive as P	0.5	4.3 µg/L	
Phosphorus - Total T0109-44(ADEL)			26/03/2020
Phosphorus - Total	0.005	0.187 mg/L	
Silica - Reactive T0111-01(ADEL)			17/03/2020
Silica - Reactive	0.05	7.83 mg/L	
TKN as N T0112-01(ADEL)			26/03/2020
TKN as Nitrogen	0.05	8.43 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:11AM
Sample Analysis Completed	1/04/2020 9:39:52PM
Sample ID	2020-002-3821
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	31.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	38.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		221 mg/L	
Bicarbonate		269 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.6 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	26 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	47 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	157000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	20 mg/L	
Volatile Suspended Solids	1	27 mg/L	



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:45AM
Sample Analysis Completed	1/04/2020 5:40:50PM
Sample ID	2020-002-3822
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/03/2020

Chlorophyll a	0.1	60.5 µg/L
Phaeophytin a	0.1	18.4 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Ammonia as N (ADEL) 25/03/2020

# Ammonia as N	1	81 µg/L
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Chloride T0104-02(ADEL) 17/03/2020

Chloride	4.0	67000 mg/L
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Nitrate + Nitrite as N (ADEL) 25/03/2020

# Nitrate + Nitrite as N	0.5	4.0 µg/L
# Nitrate + Nitrite as NO ₃	2.3	17.7 µg/L
# Nitrate as Nitrogen		2.61 µg/L

Nitrite as N (ADEL) 25/03/2020

# Nitrite as N	0.5	1.4 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/03/2020

Nitrogen - Total		6.12 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 25/03/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	8.671 µg/L
Phosphorus-Filterable Reactive as P	0.5	2.9 µg/L

Phosphorus - Total T0109-44(ADEL) 26/03/2020

Phosphorus - Total	0.005	0.189 mg/L
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Silica - Reactive T0111-01(ADEL) 17/03/2020

Silica - Reactive	0.05	4.88 mg/L
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TKN as N T0112-01(ADEL) 26/03/2020

TKN as Nitrogen	0.05	6.12 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:45AM
Sample Analysis Completed	1/04/2020 5:40:50PM
Sample ID	2020-002-3822
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	28.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	35.4 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		222 mg/L	
Bicarbonate		271 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	13 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	20 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	129000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	15 mg/L	
Volatile Suspended Solids	1	5 mg/L	



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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:16AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3823
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/03/2020

Chlorophyll a	0.1	57.0 µg/L
Phaeophytin a	0.1	15.8 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Ammonia as N (ADEL) 25/03/2020

# Ammonia as N	1	69 µg/L
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Chloride T0104-02(ADEL) 17/03/2020

Chloride	4.0	64200 mg/L
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Nitrate + Nitrite as N (ADEL) 25/03/2020

# Nitrate + Nitrite as N	0.5	2.3 µg/L
# Nitrate + Nitrite as NO ₃	2.3	10.2 µg/L
# Nitrate as Nitrogen		0.150 µg/L

Nitrite as N (ADEL) 25/03/2020

# Nitrite as N	0.5	2.2 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/03/2020

Nitrogen - Total		6.20 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 25/03/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	8.97 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.0 µg/L

Phosphorus - Total T0109-44(ADEL) 26/03/2020

Phosphorus - Total	0.005	0.164 mg/L
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Silica - Reactive T0111-01(ADEL) 17/03/2020

Silica - Reactive	0.05	4.05 mg/L
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TKN as N T0112-01(ADEL) 26/03/2020

TKN as Nitrogen	0.05	6.20 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:16AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3823
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	27.5 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	35.1 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		220 mg/L	
Bicarbonate		268 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	14 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	20 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	128000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	2 mg/L	
Volatile Suspended Solids	1	18 mg/L	



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:35AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3824
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/03/2020

Chlorophyll a	0.1	73.9 µg/L
Phaeophytin a	0.1	17.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Ammonia as N (ADEL) 25/03/2020

# Ammonia as N	1	82 µg/L
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Chloride T0104-02(ADEL) 17/03/2020

Chloride	4.0	68800 mg/L
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Nitrate + Nitrite as N (ADEL) 25/03/2020

# Nitrate + Nitrite as N	0.5	3.2 µg/L
# Nitrate + Nitrite as NO ₃	2.3	14.2 µg/L
# Nitrate as Nitrogen		0.990 µg/L

Nitrite as N (ADEL) 25/03/2020

# Nitrite as N	0.5	2.2 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/03/2020

Nitrogen - Total		6.18 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 25/03/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	7.475 µg/L
Phosphorus-Filterable Reactive as P	0.5	2.5 µg/L

Phosphorus - Total T0109-44(ADEL) 26/03/2020

Phosphorus - Total	0.005	0.157 mg/L
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Silica - Reactive T0111-01(ADEL) 17/03/2020

Silica - Reactive	0.05	4.97 mg/L
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TKN as N T0112-01(ADEL) 26/03/2020

TKN as Nitrogen	0.05	6.18 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:35AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3824
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	26.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	35.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		225 mg/L	
Bicarbonate		275 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	13 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	14 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	128000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	14 mg/L	



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:02AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3825
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			17/03/2020
Chlorophyll a	0.1	52.7 µg/L	
Phaeophytin a	0.1	20.1 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Ammonia as N (ADEL)			25/03/2020
# Ammonia as N	1	103 µg/L	
Chloride T0104-02(ADEL)			17/03/2020
Chloride	4.0	67400 mg/L	
Nitrate + Nitrite as N (ADEL)			25/03/2020
# Nitrate + Nitrite as N	0.5	4.5 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	19.9 µg/L	
# Nitrate as Nitrogen		1.97 µg/L	
Nitrite as N (ADEL)			25/03/2020
# Nitrite as N	0.5	2.5 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			17/03/2020
Nitrogen - Total		6.73 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			25/03/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	10.465 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			26/03/2020
Phosphorus - Total	0.005	0.299 mg/L	
Silica - Reactive T0111-01(ADEL)			17/03/2020
Silica - Reactive	0.05	2.51 mg/L	
TKN as N T0112-01(ADEL)			26/03/2020
TKN as Nitrogen	0.05	6.73 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:02AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3825
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	30.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	38.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		215 mg/L	
Bicarbonate		263 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.8 pH units	
Temperature at which pH is measured		22.3 °C	
Turbidity T0018-01(ADEL)			18/03/2020
Turbidity	0.1	36 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	63 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	133000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	26 mg/L	
Volatile Suspended Solids	1	37 mg/L	



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:25AM
Sample Analysis Completed	1/04/2020 5:40:50PM
Sample ID	2020-002-3826
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			17/03/2020
Chlorophyll a	0.1	44.2 µg/L	
Phaeophytin a	0.1	13.1 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Ammonia as N (ADEL)			25/03/2020
# Ammonia as N	1	89 µg/L	
Chloride T0104-02(ADEL)			17/03/2020
Chloride	4.0	70800 mg/L	
Nitrate + Nitrite as N (ADEL)			25/03/2020
# Nitrate + Nitrite as N	0.5	4.3 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	19.0 µg/L	
# Nitrate as Nitrogen		2.08 µg/L	
Nitrite as N (ADEL)			25/03/2020
# Nitrite as N	0.5	2.2 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			17/03/2020
Nitrogen - Total		6.60 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			25/03/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	13.455 µg/L	
Phosphorus-Filterable Reactive as P	0.5	4.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			26/03/2020
Phosphorus - Total	0.005	0.172 mg/L	
Silica - Reactive T0111-01(ADEL)			17/03/2020
Silica - Reactive	0.05	1.56 mg/L	
TKN as N T0112-01(ADEL)			26/03/2020
TKN as Nitrogen	0.05	6.60 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:25AM
Sample Analysis Completed	1/04/2020 5:40:50PM
Sample ID	2020-002-3826
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	29.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	36.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		219 mg/L	
Bicarbonate		267 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	28 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	42 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	130000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	12 mg/L	
Volatile Suspended Solids	1	30 mg/L	



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:07AM
Sample Analysis Completed	1/04/2020 9:39:51PM
Sample ID	2020-002-3827
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/03/2020

Chlorophyll a	0.1	43.1 µg/L
Phaeophytin a	0.1	10.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Ammonia as N T0100-01(ADEL) 01/04/2020

Ammonia as N	0.005	0.021 mg/L
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Chloride T0104-02(ADEL) 17/03/2020

Chloride	4.0	65700 mg/L
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Nitrate + Nitrite as N (ADEL) 25/03/2020

# Nitrate + Nitrite as N	0.5	4.4 µg/L
# Nitrate + Nitrite as NO ₃	2.3	19.5 µg/L
# Nitrate as Nitrogen		2.10 µg/L

Nitrite as N (ADEL) 25/03/2020

# Nitrite as N	0.5	2.3 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/03/2020

Nitrogen - Total		7.04 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 25/03/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	13.156 µg/L
Phosphorus-Filterable Reactive as P	0.5	4.4 µg/L

Phosphorus - Total T0109-44(ADEL) 26/03/2020

Phosphorus - Total	0.005	0.258 mg/L
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Silica - Reactive T0111-01(ADEL) 17/03/2020

Silica - Reactive	0.05	2.47 mg/L
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TKN as N T0112-01(ADEL) 26/03/2020

TKN as Nitrogen	0.05	7.04 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:07AM
Sample Analysis Completed	1/04/2020 9:39:51PM
Sample ID	2020-002-3827
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	29.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	37.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		224 mg/L	
Bicarbonate		274 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		7.8 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	28 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	33 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	129000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	3 mg/L	
Volatile Suspended Solids	1	30 mg/L	



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:20AM
Sample Analysis Completed	1/04/2020 9:40:21PM
Sample ID	2020-002-3829
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/03/2020

Chlorophyll a	0.1	6.11 µg/L
Phaeophytin a	0.1	2.95 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Ammonia as N T0100-01(ADEL) 01/04/2020

Ammonia as N	0.005	0.548 mg/L
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Chloride T0104-02(ADEL) 17/03/2020

Chloride	4.0	8860 mg/L
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Nitrate + Nitrite as N (ADEL) 25/03/2020

# Nitrate + Nitrite as N	0.5	12.6 µg/L
# Nitrate + Nitrite as NO ₃	2.3	55.8 µg/L
# Nitrate as Nitrogen		9.99 µg/L

Nitrite as N (ADEL) 25/03/2020

# Nitrite as N	0.5	2.6 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/03/2020

Nitrogen - Total		2.97 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 25/03/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	19.136 µg/L
Phosphorus-Filterable Reactive as P	0.5	6.4 µg/L

Phosphorus - Total T0109-44(ADEL) 26/03/2020

Phosphorus - Total	0.005	0.281 mg/L
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Silica - Reactive T0111-01(ADEL) 17/03/2020

Silica - Reactive	0.05	0.71 mg/L
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TKN as N T0112-01(ADEL) 26/03/2020

TKN as Nitrogen	0.05	2.96 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:20AM
Sample Analysis Completed	1/04/2020 9:40:21PM
Sample ID	2020-002-3829
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	24.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	26.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		271 mg/L	
Bicarbonate		77 mg/L	
Carbonate		125 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		9.8 pH units	
Temperature at which pH is measured		22.8 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	2.6 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	<1 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	16000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	<1 mg/L	



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:58:57AM
Sample Analysis Completed	2/04/2020 12:44:43PM
Sample ID	2020-002-3830
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			17/03/2020
Chlorophyll a	0.1	1.80 µg/L	
Phaeophytin a	0.1	0.53 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 8.8°C</i>			
Ammonia as N (ADEL)			25/03/2020
# Ammonia as N	1	44 µg/L	
Chloride T0104-02(ADEL)			17/03/2020
Chloride	4.0	3280 mg/L	
Nitrate + Nitrite as N (ADEL)			25/03/2020
# Nitrate + Nitrite as N	0.5	29.0 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	128 µg/L	
# Nitrate as Nitrogen		28.5 µg/L	
Nitrite as N (ADEL)			25/03/2020
# Nitrite as N	0.5	0.5 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			17/03/2020
Nitrogen - Total		0.77 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			25/03/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	13.455 µg/L	
Phosphorus-Filterable Reactive as P	0.5	4.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			26/03/2020
Phosphorus - Total	0.005	0.008 mg/L	
Silica - Reactive T0111-01(ADEL)			17/03/2020
Silica - Reactive	0.05	11.8 mg/L	
TKN as N T0112-01(ADEL)			26/03/2020
TKN as Nitrogen	0.05	0.74 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:58:57AM
Sample Analysis Completed	2/04/2020 12:44:43PM
Sample ID	2020-002-3830
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	7.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	7.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		404 mg/L	
Bicarbonate		459 mg/L	
Carbonate		16 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		8.5 pH units	
Temperature at which pH is measured		22.4 °C	
Turbidity T0018-01(ADEL)			18/03/2020
Turbidity	0.1	7.5 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	<1 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	5400 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	<1 mg/L	



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:58:52AM
Sample Analysis Completed	1/04/2020 5:40:50PM
Sample ID	2020-002-3831
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/03/2020

Chlorophyll a	0.1	0.81 µg/L
Phaeophytin a	0.1	2.25 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C

Ammonia as N (ADEL) 25/03/2020

# Ammonia as N	1	59 µg/L
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Chloride T0104-02(ADEL) 17/03/2020

Chloride	4.0	3330 mg/L
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Nitrate + Nitrite as N (ADEL) 25/03/2020

# Nitrate + Nitrite as N	0.5	10.2 µg/L
# Nitrate + Nitrite as NO ₃	2.3	45.2 µg/L
# Nitrate as Nitrogen		9.00 µg/L

Nitrite as N (ADEL) 25/03/2020

# Nitrite as N	0.5	1.2 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/03/2020

Nitrogen - Total		0.93 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 25/03/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	15.548 µg/L
Phosphorus-Filterable Reactive as P	0.5	5.2 µg/L

Phosphorus - Total T0109-44(ADEL) 26/03/2020

Phosphorus - Total	0.005	0.007 mg/L
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Silica - Reactive T0111-01(ADEL) 17/03/2020

Silica - Reactive	0.05	10.7 mg/L
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TKN as N T0112-01(ADEL) 26/03/2020

TKN as Nitrogen	0.05	0.92 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.8°C



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:58:52AM
Sample Analysis Completed	1/04/2020 5:40:50PM
Sample ID	2020-002-3831
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			20/03/2020
Dissolved Organic Carbon	1	7.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			20/03/2020
Total Organic Carbon	1	7.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			18/03/2020
Alkalinity as Calcium Carbonate		400 mg/L	
Bicarbonate		455 mg/L	
Carbonate		17 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			18/03/2020
pH		8.5 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			17/03/2020
Turbidity	0.1	2.3 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.8°C			
Suspended Solids T0160-01(ADEL)			31/03/2020
Suspended Solids	1.0	3 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	5360 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			31/03/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	2 mg/L	



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Analytical Results

Sampling Point	300712-Tilley Swamp Watercourse Outlet Channel
Sampled Date	16/03/2020 4:59:00AM
Sample Received Date	17/03/2020 11:59:54AM
Sample Analysis Completed	1/04/2020 5:40:49PM
Sample ID	2020-002-3832
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.8°C</i>			
Ammonia as N (ADEL)			25/03/2020
# Ammonia as N	1	93 µg/L	
Nitrate + Nitrite as N (ADEL)			25/03/2020
# Nitrate + Nitrite as N	0.5	2.3 µg/L	
# Nitrate + Nitrite as NO3	2.3	10.2 µg/L	
# Nitrate as Nitrogen		0.260 µg/L	
Nitrite as N (ADEL)			25/03/2020
# Nitrite as N	0.5	2.0 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			17/03/2020
Nitrogen - Total		0.74 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			25/03/2020
# Phosphorus -Filterable Reactive as PO4	1.5	3.887 µg/L	
Phosphorus-Filterable Reactive as P	0.5	1.3 µg/L	
Phosphorus - Total T0109-44(ADEL)			26/03/2020
Phosphorus - Total	0.005	0.006 mg/L	
TKN as N T0112-01(ADEL)			26/03/2020
TKN as Nitrogen	0.05	0.74 mg/L	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.8°C</i>			
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/03/2020
Total Dissolved Solids (by evaporation)	1	135000 mg/L	



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AWQC Signatories

Mira Banasiak - Supervisor Bacteriology

Dzung Bui - Supervisor Metals and Physical

Thuy Diep - Technical Officer Chemistry

David Evans - Technical Officer Chemistry

Andrew Ford - Technical Officer Chemistry

Kerrie Jooste - Supervisor Nutrients and Waste

Aji John - Technical Officer Chemistry

John Martini - Method Development Coordinator

Dean Newman - Algal Specialist

Gayle Polley - Snr Technical Officer



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Analytical Method

Analytical Method Code	Description	Reference Method
T0010-01	Determination of pH	AP4500HB
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
T0100-01	Ammonia/Ammonium - Automated Flow Colorimetry	AP4500NH3G
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0109-44	Phosphorous -total Kjeldahl for seawater by automated flow colorimetry	AP4500PF
T0111-01	Silica by automated fow colorimetry	AP4500SI02
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T015-05	Total Dissolved Solids by Evaporation	AP2540C
T0158-07	Total and Dissolved Organic Carbon (OI Analytical)	SM5310C
T0160-01	Suspended Solids 103C to 105C	AP2540DE
T0160-01	Suspended Solids 103C to 105C	AP4500
T0380-02	Chlorophyll a & b and phaeophytin	ISO10260
TMZ-M06	Derived Results and Data Checks	AP4500NORGA

Laboratory Information

Laboratory	NATA accreditation ID
Inorganic Chemistry - Nutrients	1115
Organic Chemistry	1115
Biology Operations	1115
Inorganic Chemistry - Waste Water	1115
Inorganic Chemistry - Physical	1115



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Notes

1. The last figure of the result value is a significant figure.
2. # determination of the component is not covered by NATA Accreditation.
3. ^ indicates result is out of specification according to the reference guideline. Refer to report footer.
4. * indicates an incident has been recorded against the sample. Refer to report footer.
5. & Indicates the results have changed since the last issued report.
6. The Limit of Reporting (LOR) is the lowest concentration of analyte which is reported at the AWQC and is based on the LOQ rounded up to a more readily used value. The Limit of Quantitation (LOQ) is the lowest concentration of analyte for which quantitative results may be obtained within a specified degree of confidence.
7. Where collection type is AWQC Collect, NATA has confirmed that due to a robust system in place for maintaining the temperature integrity for samples collected by AWQC's Field Laboratory Services, the recording of temperature when samples arrive at the AWQC is out of scope.
8. Where applicable the [Measurement of Uncertainty](https://www.awqc.com.au/our-services/analytical-services/measurement-uncertainty) is available at <https://www.awqc.com.au/our-services/analytical-services/measurement-uncertainty>.
9. If pH has been tested then the pH will be outside of its holding time unless measured in the field.
10. (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.