



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

11/12/2019

Dear Patrick

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2019-CSR-1
Account: 143419
Project: AWQC-141029 DEW - Healthy Coorong Healthy Basin Phase 0 - Non routine
19/20

This report has also been sent to: Frank Mangeruca Mark de Jong

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: 265658

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Report Information

Project Name	AWQC-141029
Customer	DEW - Department of Environment and Water
CSR_ID	143419-2019-CSR-1

Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	19/11/2019 8:15:00AM
Sample Received Date	20/11/2019 10:32:26AM
Sample Analysis Completed	3/12/2019 10:58:09AM
Sample ID	2019-007-8197
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.6°C			
Chlorophyll a & b T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	62.1 µg/L	
Chlorophyll b	0.1	9.30 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	58.8 µg/L	
Phaeophytin a	0.1	9.03 µg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.6°C			
Ammonia as N T0100-01(ADEL)			02/12/2019
Ammonia as N	0.005	0.048 mg/L	
Chloride T0104-02(ADEL)			21/11/2019
Chloride	4.0	48500 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
Nitrate + Nitrite as N	0.003	0.004 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
Nitrogen - Total		5.68 mg/L	
Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L	
Phosphorus - Total T0109-44(ADEL)			25/11/2019
Phosphorus - Total	0.005	0.171 mg/L	
Silica - Reactive T0111-01(ADEL)			21/11/2019
Silica - Reactive	0.05	3.00 mg/L	
TKN as N T0112-01(ADEL)			25/11/2019



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	19/11/2019 8:15:00AM
Sample Received Date	20/11/2019 10:32:26AM
Sample Analysis Completed	3/12/2019 10:58:09AM
Sample ID	2019-007-8197
Status	Endorsed
Collection Type	Customer Collected

TKN as N T0112-01(ADEL)			25/11/2019
TKN as Nitrogen	0.05	5.68 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	23.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	32.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		221 mg/L	
Bicarbonate		269 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.0 pH units	
Temperature at which pH is measured		22.2 °C	
Turbidity T0018-01(ADEL)			25/11/2019
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Suspended Solids T0160-01(ADEL)			28/11/2019
Suspended Solids	1.0	50 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			29/11/2019
Total Dissolved Solids (by evaporation)	1	92500 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			28/11/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	50 mg/L	



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	19/11/2019 8:15:00AM
Sample Received Date	20/11/2019 10:32:26AM
Sample Analysis Completed	3/12/2019 10:58:09AM
Sample ID	2019-007-8197
Status	Endorsed
Collection Type	Customer Collected



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	19/11/2019 8:20:00AM
Sample Received Date	20/11/2019 10:33:00AM
Sample Analysis Completed	3/12/2019 10:49:45AM
Sample ID	2019-007-8199
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt NA

Chlorophyll a & b T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	52.1 µg/L
Chlorophyll b	0.1	7.97 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	48.2 µg/L
Phaeophytin a	0.1	9.53 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt NA

Ammonia as N T0100-01(ADEL) 02/12/2019

Ammonia as N	0.005	0.051 mg/L
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Chloride T0104-02(ADEL) 21/11/2019

Chloride	4.0	50700 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 28/11/2019

Nitrate + Nitrite as N	0.003	0.005 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 20/11/2019

Nitrogen - Total		5.43 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 28/11/2019

Phosphorus - Filterable Reactive as P	0.003	0.003 mg/L
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Phosphorus - Total T0109-44(ADEL) 25/11/2019

Phosphorus - Total	0.005	0.172 mg/L
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Silica - Reactive T0111-01(ADEL) 21/11/2019

Silica - Reactive	0.05	2.58 mg/L
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TKN as N T0112-01(ADEL) 25/11/2019

TKN as Nitrogen	0.05	5.42 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	19/11/2019 8:20:00AM
Sample Received Date	20/11/2019 10:33:00AM
Sample Analysis Completed	3/12/2019 10:49:45AM
Sample ID	2019-007-8199
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	25.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	33.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		224 mg/L	
Bicarbonate		273 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		7.9 pH units	
Temperature at which pH is measured		22.4 °C	
Turbidity T0018-01(ADEL)			26/11/2019
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Suspended Solids T0160-01(ADEL)			28/11/2019
Suspended Solids	1.0	47 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			29/11/2019
Total Dissolved Solids (by evaporation)	1	95500 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			28/11/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	47 mg/L	



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	19/11/2019 8:30:00AM
Sample Received Date	20/11/2019 10:32:32AM
Sample Analysis Completed	5/12/2019 2:37:47PM
Sample ID	2019-007-8201
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Chlorophyll a & b T0380-02(ADEL)			20/11/2019
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Chlorophyll a	0.1	70.5 µg/L	
Chlorophyll b	0.1	9.62 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	

Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
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Chlorophyll a	0.1	65.9 µg/L	
Phaeophytin a	0.1	11.3 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Ammonia as N T0100-01(ADEL)			02/12/2019
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Ammonia as N	0.005	<0.005 mg/L	
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Chloride T0104-02(ADEL)			21/11/2019
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Chloride	4.0	48500 mg/L	
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Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
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Nitrate + Nitrite as N	0.003	<0.003 mg/L	
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Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
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Nitrogen - Total		5.32 mg/L	
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Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
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Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L	
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Phosphorus - Total T0109-44(ADEL)			25/11/2019
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Phosphorus - Total	0.005	0.162 mg/L	
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Silica - Reactive T0111-01(ADEL)			21/11/2019
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Silica - Reactive	0.05	2.96 mg/L	
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TKN as N T0112-01(ADEL)			25/11/2019
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TKN as Nitrogen	0.05	5.32 mg/L	
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	19/11/2019 8:30:00AM
Sample Received Date	20/11/2019 10:32:32AM
Sample Analysis Completed	5/12/2019 2:37:47PM
Sample ID	2019-007-8201
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 8.6°C

Dissolved Organic Carbon T0158-07(ADEL) 22/11/2019

Dissolved Organic Carbon	1	22.5 mg/L
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Total Organic Carbon T0158-07(ADEL) 22/11/2019

Total Organic Carbon	1	32.9 mg/L
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Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt 8.6°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 25/11/2019

Alkalinity as Calcium Carbonate	227 mg/L
Bicarbonate	277 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 25/11/2019

Conductivity	2	111000 µS/cm
Total Dissolved Solids (by EC)	1	98200 mg/L

pH T0010-01(ADEL) 25/11/2019

pH	8.1 pH units
Temperature at which pH is measured	22.2 °C

Turbidity T0018-01(ADEL) 25/11/2019

Turbidity	0.1	13 NTU
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Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 8.6°C

Suspended Solids T0160-01(ADEL) 04/12/2019

Suspended Solids	1.0	28 mg/L
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Volatile Suspended Solids T0160-01(ADEL) 04/12/2019

Fixed Solids	1	<1 mg/L
Volatile Suspended Solids	1	28 mg/L



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	19/11/2019 8:40:00AM
Sample Received Date	20/11/2019 10:32:20AM
Sample Analysis Completed	2/12/2019 4:06:50PM
Sample ID	2019-007-8200
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Chlorophyll a & b T0380-02(ADEL)			20/11/2019
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Chlorophyll a	0.1	68.4 µg/L	
Chlorophyll b	0.1	10.2 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	

Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
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Chlorophyll a	0.1	63.6 µg/L	
Phaeophytin a	0.1	11.9 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Ammonia as N T0100-01(ADEL)			02/12/2019
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Ammonia as N	0.005	<0.005 mg/L	
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Chloride T0104-02(ADEL)			21/11/2019
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Chloride	4.0	48200 mg/L	
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Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
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Nitrate + Nitrite as N	0.003	<0.003 mg/L	
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Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
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Nitrogen - Total		5.34 mg/L	
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Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
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Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L	
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Phosphorus - Total T0109-44(ADEL)			25/11/2019
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Phosphorus - Total	0.005	0.188 mg/L	
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Silica - Reactive T0111-01(ADEL)			21/11/2019
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Silica - Reactive	0.05	2.87 mg/L	
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TKN as N T0112-01(ADEL)			25/11/2019
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TKN as Nitrogen	0.05	5.34 mg/L	
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	19/11/2019 8:40:00AM
Sample Received Date	20/11/2019 10:32:20AM
Sample Analysis Completed	2/12/2019 4:06:50PM
Sample ID	2019-007-8200
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 8.6°C

Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	22.5 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	29.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		222 mg/L	
Bicarbonate		271 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	111000 µS/cm	
Total Dissolved Solids (by EC)	1	98200 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.1 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			25/11/2019
Turbidity	0.1	12 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Suspended Solids T0160-01(ADEL)			27/11/2019
Suspended Solids	1.0	47 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			27/11/2019
Fixed Solids	1	14 mg/L	
Volatile Suspended Solids	1	33 mg/L	



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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	19/11/2019 9:00:00AM
Sample Received Date	20/11/2019 10:32:39AM
Sample Analysis Completed	3/12/2019 10:58:09AM
Sample ID	2019-007-8198
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Chlorophyll a & b T0380-02(ADEL)			20/11/2019
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Chlorophyll a	0.1	67.1 µg/L	
Chlorophyll b	0.1	9.20 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	

Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
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Chlorophyll a	0.1	62.6 µg/L	
Phaeophytin a	0.1	11.1 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Ammonia as N T0100-01(ADEL)			02/12/2019
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Ammonia as N	0.005	<0.005 mg/L	
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Chloride T0104-02(ADEL)			21/11/2019
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Chloride	4.0	46700 mg/L	
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Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
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Nitrate + Nitrite as N	0.003	<0.003 mg/L	
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Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
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Nitrogen - Total		5.70 mg/L	
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Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
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Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L	
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Phosphorus - Total T0109-44(ADEL)			25/11/2019
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Phosphorus - Total	0.005	0.212 mg/L	
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Silica - Reactive T0111-01(ADEL)			21/11/2019
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Silica - Reactive	0.05	2.45 mg/L	
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TKN as N T0112-01(ADEL)			25/11/2019
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TKN as Nitrogen	0.05	5.70 mg/L	
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	19/11/2019 9:00:00AM
Sample Received Date	20/11/2019 10:32:39AM
Sample Analysis Completed	3/12/2019 10:58:09AM
Sample ID	2019-007-8198
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 8.6°C

Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	22.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	31.1 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		229 mg/L	
Bicarbonate		279 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	110000 µS/cm	
Total Dissolved Solids (by EC)	1	97000 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.1 pH units	
Temperature at which pH is measured		22.1 °C	
Turbidity T0018-01(ADEL)			25/11/2019
Turbidity	0.1	13 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Suspended Solids T0160-01(ADEL)			28/11/2019
Suspended Solids	1.0	38 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			28/11/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	44 mg/L	



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Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	19/11/2019 9:00:00AM
Sample Received Date	20/11/2019 10:33:07AM
Sample Analysis Completed	4/12/2019 3:20:57PM
Sample ID	2019-007-8205
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Chlorophyll a & b T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	43.3 µg/L	
Chlorophyll b	0.1	0.87 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	37.5 µg/L	
Phaeophytin a	0.1	10.0 µg/L	
<i>Sample temperature at time of receipt NA</i>			
Ammonia as N T0100-01(ADEL)			04/12/2019
Ammonia as N	0.005	0.137 mg/L	
Chloride T0104-02(ADEL)			21/11/2019
Chloride	4.0	4770 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
Nitrate + Nitrite as N	0.003	0.004 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
Nitrogen - Total		3.21 mg/L	
Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
Phosphorus - Filterable Reactive as P	0.003	0.010 mg/L	
Phosphorus - Total T0109-44(ADEL)			25/11/2019
Phosphorus - Total	0.005	0.085 mg/L	
Silica - Reactive T0111-01(ADEL)			21/11/2019
Silica - Reactive	0.05	13.0 mg/L	
TKN as N T0112-01(ADEL)			25/11/2019
TKN as Nitrogen	0.05	3.21 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	19/11/2019 9:00:00AM
Sample Received Date	20/11/2019 10:33:07AM
Sample Analysis Completed	4/12/2019 3:20:57PM
Sample ID	2019-007-8205
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	21.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	27.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		353 mg/L	
Bicarbonate		360 mg/L	
Carbonate		34 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	15700 µS/cm	
Total Dissolved Solids (by EC)	1	9400 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.7 pH units	
Temperature at which pH is measured		22.5 °C	
Turbidity T0018-01(ADEL)			26/11/2019
Turbidity	0.1	5.3 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Suspended Solids T0160-01(ADEL)			28/11/2019
Suspended Solids	1.0	13 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			28/11/2019
Fixed Solids	1	13 mg/L	
Volatile Suspended Solids	1	<1 mg/L	



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	19/11/2019 9:15:00AM
Sample Received Date	20/11/2019 10:32:46AM
Sample Analysis Completed	3/12/2019 10:58:09AM
Sample ID	2019-007-8196
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Chlorophyll a & b T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	51.4 µg/L
Chlorophyll b	0.1	6.73 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	48.2 µg/L
Phaeophytin a	0.1	8.00 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Ammonia as N T0100-01(ADEL) 02/12/2019

Ammonia as N	0.005	<0.005 mg/L
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Chloride T0104-02(ADEL) 21/11/2019

Chloride	4.0	45700 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 28/11/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 20/11/2019

Nitrogen - Total		5.02 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 28/11/2019

Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L
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Phosphorus - Total T0109-44(ADEL) 25/11/2019

Phosphorus - Total	0.005	0.167 mg/L
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Silica - Reactive T0111-01(ADEL) 21/11/2019

Silica - Reactive	0.05	1.23 mg/L
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TKN as N T0112-01(ADEL) 25/11/2019

TKN as Nitrogen	0.05	5.02 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	19/11/2019 9:15:00AM
Sample Received Date	20/11/2019 10:32:46AM
Sample Analysis Completed	3/12/2019 10:58:09AM
Sample ID	2019-007-8196
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 8.6°C

Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	23.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	29.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.6°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		222 mg/L	
Bicarbonate		271 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	107000 µS/cm	
Total Dissolved Solids (by EC)	1	93400 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.1 pH units	
Temperature at which pH is measured		22.2 °C	
Turbidity T0018-01(ADEL)			25/11/2019
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.6°C			
Suspended Solids T0160-01(ADEL)			28/11/2019
Suspended Solids	1.0	53 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			28/11/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	53 mg/L	



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	19/11/2019 9:20:00AM
Sample Received Date	20/11/2019 10:33:16AM
Sample Analysis Completed	2/12/2019 4:06:46PM
Sample ID	2019-007-8206
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Chlorophyll a & b T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	4.45 µg/L	
Chlorophyll b	0.1	<0.1 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	3.96 µg/L	
Phaeophytin a	0.1	0.81 µg/L	
<i>Sample temperature at time of receipt NA</i>			
Ammonia as N T0100-01(ADEL)			02/12/2019
Ammonia as N	0.005	0.102 mg/L	
Chloride T0104-02(ADEL)			21/11/2019
Chloride	4.0	2740 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
Nitrate + Nitrite as N	0.003	0.016 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
Nitrogen - Total		0.61 mg/L	
Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
Phosphorus - Filterable Reactive as P	0.003	0.008 mg/L	
Phosphorus - Total T0109-44(ADEL)			25/11/2019
Phosphorus - Total	0.005	0.010 mg/L	
Silica - Reactive T0111-01(ADEL)			21/11/2019
Silica - Reactive	0.05	8.41 mg/L	
TKN as N T0112-01(ADEL)			25/11/2019
TKN as Nitrogen	0.05	0.59 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	19/11/2019 9:20:00AM
Sample Received Date	20/11/2019 10:33:16AM
Sample Analysis Completed	2/12/2019 4:06:46PM
Sample ID	2019-007-8206
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	6.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	6.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		340 mg/L	
Bicarbonate		393 mg/L	
Carbonate		11 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	10400 µS/cm	
Total Dissolved Solids (by EC)	1	6060 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.5 pH units	
Temperature at which pH is measured		22.3 °C	
Turbidity T0018-01(ADEL)			26/11/2019
Turbidity	0.1	0.61 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Suspended Solids T0160-01(ADEL)			27/11/2019
Suspended Solids	1.0	9 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			27/11/2019
Fixed Solids	1	6 mg/L	
Volatile Suspended Solids	1	3 mg/L	



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	19/11/2019 9:40:00AM
Sample Received Date	20/11/2019 10:33:23AM
Sample Analysis Completed	4/12/2019 3:19:18PM
Sample ID	2019-007-8207
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Chlorophyll a & b T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	2.43 µg/L	
Chlorophyll b	0.1	<0.1 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	2.21 µg/L	
Phaeophytin a	0.1	0.32 µg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Ammonia as N T0100-01(ADEL)			04/12/2019
Ammonia as N	0.005	0.072 mg/L	
Chloride T0104-02(ADEL)			21/11/2019
Chloride	4.0	2930 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
Nitrate + Nitrite as N	0.003	0.027 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
Nitrogen - Total		0.91 mg/L	
Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
Phosphorus - Filterable Reactive as P	0.003	0.008 mg/L	
Phosphorus - Total T0109-44(ADEL)			25/11/2019
Phosphorus - Total	0.005	0.012 mg/L	
Silica - Reactive T0111-01(ADEL)			21/11/2019
Silica - Reactive	0.05	9.50 mg/L	
TKN as N T0112-01(ADEL)			25/11/2019
TKN as Nitrogen	0.05	0.88 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	19/11/2019 9:40:00AM
Sample Received Date	20/11/2019 10:33:23AM
Sample Analysis Completed	4/12/2019 3:19:18PM
Sample ID	2019-007-8207
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	6.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	7.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		355 mg/L	
Bicarbonate		393 mg/L	
Carbonate		20 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	10600 µS/cm	
Total Dissolved Solids (by EC)	1	6190 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.6 pH units	
Temperature at which pH is measured		22.4 °C	
Turbidity T0018-01(ADEL)			25/11/2019
Turbidity	0.1	2.9 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Suspended Solids T0160-01(ADEL)			27/11/2019
Suspended Solids	1.0	4 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			27/11/2019
Fixed Solids	1	2 mg/L	
Volatile Suspended Solids	1	2 mg/L	



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	19/11/2019 9:55:00AM
Sample Received Date	20/11/2019 10:32:53AM
Sample Analysis Completed	3/12/2019 10:58:09AM
Sample ID	2019-007-8202
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Chlorophyll a & b T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	36.3 µg/L	
Chlorophyll b	0.1	4.14 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	34.2 µg/L	
Phaeophytin a	0.1	5.17 µg/L	
<i>Sample temperature at time of receipt NA</i>			
Ammonia as N T0100-01(ADEL)			02/12/2019
Ammonia as N	0.005	<0.005 mg/L	
Chloride T0104-02(ADEL)			21/11/2019
Chloride	4.0	37600 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
Nitrate + Nitrite as N	0.003	<0.003 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
Nitrogen - Total		4.33 mg/L	
Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L	
Phosphorus - Total T0109-44(ADEL)			25/11/2019
Phosphorus - Total	0.005	0.166 mg/L	
Silica - Reactive T0111-01(ADEL)			21/11/2019
Silica - Reactive	0.05	0.66 mg/L	
TKN as N T0112-01(ADEL)			25/11/2019
TKN as Nitrogen	0.05	4.33 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	19/11/2019 9:55:00AM
Sample Received Date	20/11/2019 10:32:53AM
Sample Analysis Completed	3/12/2019 10:58:09AM
Sample ID	2019-007-8202
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt NA			
Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	18.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	27.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		220 mg/L	
Bicarbonate		269 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	99900 µS/cm	
Total Dissolved Solids (by EC)	1	85100 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.1 pH units	
Temperature at which pH is measured		22.3 °C	
Turbidity T0018-01(ADEL)			25/11/2019
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
Suspended Solids T0160-01(ADEL)			28/11/2019
Suspended Solids	1.0	38 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			28/11/2019
Fixed Solids	1	13 mg/L	
Volatile Suspended Solids	1	25 mg/L	



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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	19/11/2019 10:10:00AM
Sample Received Date	20/11/2019 10:32:05AM
Sample Analysis Completed	4/12/2019 3:19:20PM
Sample ID	2019-007-8193
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Chlorophyll a & b T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	33.5 µg/L
Chlorophyll b	0.1	3.72 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	30.6 µg/L
Phaeophytin a	0.1	6.36 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Ammonia as N T0100-01(ADEL) 04/12/2019

Ammonia as N	0.005	<0.005 mg/L
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Chloride T0104-02(ADEL) 21/11/2019

Chloride	4.0	41600 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 28/11/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 20/11/2019

Nitrogen - Total		4.24 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 28/11/2019

Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L
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Phosphorus - Total T0109-44(ADEL) 25/11/2019

Phosphorus - Total	0.005	0.149 mg/L
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Silica - Reactive T0111-01(ADEL) 21/11/2019

Silica - Reactive	0.05	0.49 mg/L
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TKN as N T0112-01(ADEL) 25/11/2019

TKN as Nitrogen	0.05	4.24 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	19/11/2019 10:10:00AM
Sample Received Date	20/11/2019 10:32:05AM
Sample Analysis Completed	4/12/2019 3:19:20PM
Sample ID	2019-007-8193
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 8.6°C

Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	20.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	27.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		214 mg/L	
Bicarbonate		261 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	98900 µS/cm	
Total Dissolved Solids (by EC)	1	83900 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.2 pH units	
Temperature at which pH is measured		22.1 °C	
Turbidity T0018-01(ADEL)			25/11/2019
Turbidity	0.1	17 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Suspended Solids T0160-01(ADEL)			28/11/2019
Suspended Solids	1.0	40 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			28/11/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	40 mg/L	



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	19/11/2019 11:40:00AM
Sample Received Date	20/11/2019 10:32:13AM
Sample Analysis Completed	4/12/2019 3:19:20PM
Sample ID	2019-007-8204
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Chlorophyll a & b T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	32.5 µg/L
Chlorophyll b	0.1	3.20 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	30.4 µg/L
Phaeophytin a	0.1	4.79 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Ammonia as N T0100-01(ADEL) 04/12/2019

Ammonia as N	0.005	<0.005 mg/L
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Chloride T0104-02(ADEL) 21/11/2019

Chloride	4.0	41600 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 28/11/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 20/11/2019

Nitrogen - Total		4.27 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 28/11/2019

Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L
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Phosphorus - Total T0109-44(ADEL) 25/11/2019

Phosphorus - Total	0.005	0.139 mg/L
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Silica - Reactive T0111-01(ADEL) 21/11/2019

Silica - Reactive	0.05	0.43 mg/L
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TKN as N T0112-01(ADEL) 25/11/2019

TKN as Nitrogen	0.05	4.27 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	19/11/2019 11:40:00AM
Sample Received Date	20/11/2019 10:32:13AM
Sample Analysis Completed	4/12/2019 3:19:20PM
Sample ID	2019-007-8204
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 8.6°C

Dissolved Organic Carbon T0158-07(ADEL) 22/11/2019

Dissolved Organic Carbon	1	20.8 mg/L
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Total Organic Carbon T0158-07(ADEL) 22/11/2019

Total Organic Carbon	1	28.1 mg/L
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 25/11/2019

Alkalinity as Calcium Carbonate	194 mg/L
Bicarbonate	237 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 25/11/2019

Conductivity	2	99400 µS/cm
Total Dissolved Solids (by EC)	1	84500 mg/L

pH T0010-01(ADEL) 25/11/2019

pH	8.2 pH units
Temperature at which pH is measured	22.4 °C

Turbidity T0018-01(ADEL) 25/11/2019

Turbidity	0.1	15 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.6°C

Suspended Solids T0160-01(ADEL) 27/11/2019

Suspended Solids	1.0	54 mg/L
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Volatile Suspended Solids T0160-01(ADEL) 27/11/2019

Fixed Solids	1	28 mg/L
Volatile Suspended Solids	1	26 mg/L



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/11/2019 12:05:00PM
Sample Received Date	20/11/2019 10:31:57AM
Sample Analysis Completed	4/12/2019 3:19:17PM
Sample ID	2019-007-8203
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Chlorophyll a & b T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	12.3 µg/L	
Chlorophyll b	0.1	0.43 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	11.5 µg/L	
Phaeophytin a	0.1	1.45 µg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.6°C</i>			
Ammonia as N T0100-01(ADEL)			04/12/2019
Ammonia as N	0.005	0.159 mg/L	
Chloride T0104-02(ADEL)			21/11/2019
Chloride	4.0	30400 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
Nitrate + Nitrite as N	0.003	0.006 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
Nitrogen - Total		3.00 mg/L	
Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
Phosphorus - Filterable Reactive as P	0.003	0.003 mg/L	
Phosphorus - Total T0109-44(ADEL)			25/11/2019
Phosphorus - Total	0.005	0.132 mg/L	
Silica - Reactive T0111-01(ADEL)			21/11/2019
Silica - Reactive	0.05	0.20 mg/L	
TKN as N T0112-01(ADEL)			25/11/2019
TKN as Nitrogen	0.05	2.99 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/11/2019 12:05:00PM
Sample Received Date	20/11/2019 10:31:57AM
Sample Analysis Completed	4/12/2019 3:19:17PM
Sample ID	2019-007-8203
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 8.6°C

Dissolved Organic Carbon T0158-07(ADEL) 22/11/2019

Dissolved Organic Carbon	1	16.7 mg/L
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Total Organic Carbon T0158-07(ADEL) 22/11/2019

Total Organic Carbon	1	21.0 mg/L
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Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt 8.6°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 25/11/2019

Alkalinity as Calcium Carbonate	187 mg/L
Bicarbonate	217 mg/L
Carbonate	5 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 25/11/2019

Conductivity	2	74900 µS/cm
Total Dissolved Solids (by EC)	1	58200 mg/L

pH T0010-01(ADEL) 25/11/2019

pH	8.3 pH units
Temperature at which pH is measured	22.4 °C

Turbidity T0018-01(ADEL) 25/11/2019

Turbidity	0.1	10 NTU
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Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 8.6°C

Suspended Solids T0160-01(ADEL) 28/11/2019

Suspended Solids	1.0	20 mg/L
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Volatile Suspended Solids T0160-01(ADEL) 28/11/2019

Fixed Solids	1	4 mg/L
Volatile Suspended Solids	1	16 mg/L



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/11/2019 1:30:00PM
Sample Received Date	20/11/2019 10:33:35AM
Sample Analysis Completed	2/12/2019 4:06:50PM
Sample ID	2019-007-8195
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Chlorophyll a & b T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	5.26 µg/L	
Chlorophyll b	0.1	0.36 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/11/2019
Chlorophyll a	0.1	4.07 µg/L	
Phaeophytin a	0.1	2.15 µg/L	
<i>Sample temperature at time of receipt NA</i>			
Ammonia as N T0100-01(ADEL)			02/12/2019
Ammonia as N	0.005	0.139 mg/L	
Chloride T0104-02(ADEL)			21/11/2019
Chloride	4.0	9840 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			28/11/2019
Nitrate + Nitrite as N	0.003	0.019 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/11/2019
Nitrogen - Total		1.46 mg/L	
Phosphorus - Filterable Reactive as P T0108-01(ADEL)			28/11/2019
Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L	
Phosphorus - Total T0109-44(ADEL)			25/11/2019
Phosphorus - Total	0.005	0.065 mg/L	
Silica - Reactive T0111-01(ADEL)			21/11/2019
Silica - Reactive	0.05	0.35 mg/L	
TKN as N T0112-01(ADEL)			25/11/2019
TKN as Nitrogen	0.05	1.44 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/11/2019 1:30:00PM
Sample Received Date	20/11/2019 10:33:35AM
Sample Analysis Completed	2/12/2019 4:06:50PM
Sample ID	2019-007-8195
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	8.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	10.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		138 mg/L	
Bicarbonate		165 mg/L	
Carbonate		2 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	31300 µS/cm	
Total Dissolved Solids (by EC)	1	20200 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.3 pH units	
Temperature at which pH is measured		22.5 °C	
Turbidity T0018-01(ADEL)			26/11/2019
Turbidity	0.1	7.1 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Suspended Solids T0160-01(ADEL)			27/11/2019
Suspended Solids	1.0	11 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			27/11/2019
Fixed Solids	1	5 mg/L	
Volatile Suspended Solids	1	6 mg/L	



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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	19/11/2019 2:10:00PM
Sample Received Date	20/11/2019 10:33:29AM
Sample Analysis Completed	4/12/2019 3:19:15PM
Sample ID	2019-007-8194
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt NA

Chlorophyll a & b T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	36.1 µg/L
Chlorophyll b	0.1	4.64 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/11/2019

Chlorophyll a	0.1	32.6 µg/L
Phaeophytin a	0.1	7.59 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt NA

Ammonia as N T0100-01(ADEL) 04/12/2019

Ammonia as N	0.005	0.135 mg/L
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Chloride T0104-02(ADEL) 21/11/2019

Chloride	4.0	2420 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 28/11/2019

Nitrate + Nitrite as N	0.003	0.020 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 20/11/2019

Nitrogen - Total		1.83 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 28/11/2019

Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L
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Phosphorus - Total T0109-44(ADEL) 25/11/2019

Phosphorus - Total	0.005	0.117 mg/L
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Silica - Reactive T0111-01(ADEL) 21/11/2019

Silica - Reactive	0.05	0.58 mg/L
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TKN as N T0112-01(ADEL) 25/11/2019

TKN as Nitrogen	0.05	1.81 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	19/11/2019 2:10:00PM
Sample Received Date	20/11/2019 10:33:29AM
Sample Analysis Completed	4/12/2019 3:19:15PM
Sample ID	2019-007-8194
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/11/2019
Dissolved Organic Carbon	1	6.9 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/11/2019
Total Organic Carbon	1	15.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			25/11/2019
Alkalinity as Calcium Carbonate		105 mg/L	
Bicarbonate		123 mg/L	
Carbonate		2 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			25/11/2019
Conductivity	2	7910 µS/cm	
Total Dissolved Solids (by EC)	1	4550 mg/L	
pH T0010-01(ADEL)			25/11/2019
pH		8.4 pH units	
Temperature at which pH is measured		22.1 °C	
Turbidity T0018-01(ADEL)			26/11/2019
Turbidity	0.1	25 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Suspended Solids T0160-01(ADEL)			27/11/2019
Suspended Solids	1.0	56 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			27/11/2019
Fixed Solids	1	38 mg/L	
Volatile Suspended Solids	1	18 mg/L	



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AWQC Signatories

Dzung Bui - Supervisor Metals and Physical

Ivana Cech - Technical Officer Chemistry

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

Dean Newman - Algal Specialist

Melissa Phillips - Technical Officer Chemistry

Gayle Polley - Snr Technical Officer

Kamilla Springer - Senior Technical Officer



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Samples Not Collected

Sample ID	S.Point	Description	Sampled Date	Non Collect Reason
2019-007-8208	315191	EPA - Morella Creek @ guage	4/11/2019	Dry
2019-007-8209	300712	Tilley Swamp Watercourse Outlet Channel	4/11/2019	Dry

Bottles Not Collected

Sample ID	S.Point	Description	Sampled Date	Laboratory	Non Collect Reason
2019-007-8208-0	315191	EPA - Morella Creek @ guage	4/11/2019	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2019-007-8208-0	315191	EPA - Morella Creek @ guage	4/11/2019	Biology Operations	Bottle not received at AWQC
2019-007-8208-0	315191	EPA - Morella Creek @ guage	4/11/2019	Inorganic Chemistry - Physical	Bottle not received at AWQC
2019-007-8208-0	315191	EPA - Morella Creek @ guage	4/11/2019	Organic Chemistry	Bottle not received at AWQC
2019-007-8208-0	315191	EPA - Morella Creek @ guage	4/11/2019	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2019-007-8208-0	315191	EPA - Morella Creek @ guage	4/11/2019	Inorganic Chemistry - Waste Water	Bottle not received at AWQC
2019-007-8208-0	315191	EPA - Morella Creek @ guage	4/11/2019	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2019-007-8208-0	315191	EPA - Morella Creek @ guage	4/11/2019	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2019-007-8209-0	300712	Tilley Swamp Watercourse Outlet Channel	4/11/2019	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2019-007-8209-0	300712	Tilley Swamp Watercourse Outlet Channel	4/11/2019	Biology Operations	Bottle not received at AWQC
2019-007-8209-0	300712	Tilley Swamp Watercourse Outlet Channel	4/11/2019	Inorganic Chemistry - Physical	Bottle not received at AWQC
2019-007-8209-0	300712	Tilley Swamp Watercourse Outlet Channel	4/11/2019	Organic Chemistry	Bottle not received at AWQC
2019-007-8209-0	300712	Tilley Swamp Watercourse Outlet Channel	4/11/2019	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2019-007-8209-0	300712	Tilley Swamp Watercourse Outlet Channel	4/11/2019	Inorganic Chemistry - Waste Water	Bottle not received at AWQC
2019-007-8209-0	300712	Tilley Swamp Watercourse Outlet Channel	4/11/2019	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2019-007-8209-0	300712	Tilley Swamp Watercourse Outlet Channel	4/11/2019	Inorganic Chemistry - Nutrients	Bottle not received at AWQC

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Analytical Method

Analytical Method Code	Description	Reference Method
T0010-01	Determination of pH	AP4500HB
T0016-01	Determination of Conductivity - Corrected to 25C	AP2510B
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
T0108-01	Filterable Reactive Phosphorus - Automated Flow Colorimetry	AP4500PG
T0109-44	Phosphorous -total Kjeldahl for seawater by automated flow colorimetry	AP4500PF
T0111-01	Silica by automated flow 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
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry	AP4500NO3I
T0380-02	Chlorophyll a & b and phaeophytin	ISO10260
T0380-02	Chlorophyll a & b and phaeophytin	Wintermans
TMZ-M06	Derived Results and Data Checks	AP4500NORGA

Laboratory Information

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