



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

22/06/2020

Dear Patrick

Please find attached the Final Analytical Report for

**Customer Service Request:** 143419-2020-CSR-2  
**Account:** 143419  
**Project:** AWQC-148061 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](mailto:Darren.Seebohm@sawater.com.au)  
+61 8 7424 2150



## FINAL REPORT: 285472

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## Report Information

Project Name	AWQC-148061
Customer	DEW - Department of Environment and Water
CSR_ID	143419-2020-CSR-2

## Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	12/05/2020 7:45:00AM
Sample Received Date	12/05/2020 5:38:57PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0803
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	11.6 µg/L	
Phaeophytin a	0.1	4.56 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	23 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	24000 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	4.2 µg/L	
# Nitrate + Nitrite as NO3	2.3	18.6 µg/L	
# Nitrate as Nitrogen		1.55 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	2.6 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		1.62 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO4	1.5	11.96 µg/L	
Phosphorus-Filterable Reactive as P	0.5	4.0 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.132 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	0.41 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	1.62 mg/L	



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## Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	12/05/2020 7:45:00AM
Sample Received Date	12/05/2020 5:38:57PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0803
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	7.8 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	9.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		166 mg/L	
Bicarbonate		202 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.1 pH units	
Temperature at which pH is measured		22.7 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	6.2 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Suspended Solids	1.0	7 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	46200 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	6 mg/L	



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**Analytical Results**

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	12/05/2020 9:10:00AM
Sample Received Date	12/05/2020 5:39:39PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0798
Status	Endorsed
Collection Type	Customer Collected

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Biology Operations	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	28.5 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 2.5°C*

<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	20 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	56500 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	9.2 µg/L	
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	40.8 µg/L	
# Nitrate as Nitrogen		6.07 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	3.1 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		5.25 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	33.189 µg/L	
Phosphorus-Filterable Reactive as P	0.5	11.1 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.356 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	2.25 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	5.24 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	12/05/2020 9:10:00AM
Sample Received Date	12/05/2020 5:39:39PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0798
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	24.5 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	29.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		210 mg/L	
Bicarbonate		256 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.7 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	9.3 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Suspended Solids	1.0	17 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	110000 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	17 mg/L	



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## Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	12/05/2020 9:30:00AM
Sample Received Date	12/05/2020 5:39:23PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0799
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Chlorophyll a & Phaeophytin a T0380-02(ADEL)** 12/05/2020

Chlorophyll a	0.1	28.9 µg/L
Phaeophytin a	0.1	7.09 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Ammonia as N (ADEL)** 13/05/2020

# Ammonia as N	1	47 µg/L
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**Chloride T0104-02(ADEL)** 14/05/2020

Chloride	4.0	52500 mg/L
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**Nitrate + Nitrite as N (ADEL)** 13/05/2020

# Nitrate + Nitrite as N	0.5	27.8 µg/L
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	123 µg/L
# Nitrate as Nitrogen		23.8 µg/L

**Nitrite as N (ADEL)** 13/05/2020

# Nitrite as N	0.5	4.0 µg/L
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**Nitrogen - Total TMZ-M06(ADEL)** 28/05/2020

Nitrogen - Total		6.27 mg/L
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**Phosphorus - Filterable Reactive as P (ADEL)** 13/05/2020

# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	43.953 µg/L
Phosphorus-Filterable Reactive as P	0.5	14.7 µg/L

**Phosphorus - Total T0109-44(ADEL)** 14/05/2020

Phosphorus - Total	0.005	0.237 mg/L
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**Silica - Reactive T0111-01(ADEL)** 14/05/2020

Silica - Reactive	0.05	2.51 mg/L
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**TKN as N T0112-01(ADEL)** 14/05/2020

TKN as Nitrogen	0.05	6.24 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	12/05/2020 9:30:00AM
Sample Received Date	12/05/2020 5:39:23PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0799
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	25.4 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	35.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		216 mg/L	
Bicarbonate		264 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	33 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Suspended Solids	1.0	34 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	115000 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Fixed Solids	1	10 mg/L	
Volatile Suspended Solids	1	24 mg/L	



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**Analytical Results**

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	12/05/2020 9:30:00AM
Sample Received Date	12/05/2020 5:39:53PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0802
Status	Endorsed
Collection Type	Customer Collected

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Biology Operations	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Chlorophyll a & Phaeophytin a T0380-02(ADEL)** 12/05/2020

Chlorophyll a	0.1	31.7 µg/L
Phaeophytin a	0.1	9.34 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Ammonia as N (ADEL)** 13/05/2020

# Ammonia as N	1	19 µg/L
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**Chloride T0104-02(ADEL)** 14/05/2020

Chloride	4.0	55800 mg/L
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**Nitrate + Nitrite as N (ADEL)** 13/05/2020

# Nitrate + Nitrite as N	0.5	2.6 µg/L
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	11.5 µg/L
# Nitrate as Nitrogen		0.170 µg/L

**Nitrite as N (ADEL)** 13/05/2020

# Nitrite as N	0.5	2.4 µg/L
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**Nitrogen - Total TMZ-M06(ADEL)** 28/05/2020

Nitrogen - Total		5.46 mg/L
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**Phosphorus - Filterable Reactive as P (ADEL)** 13/05/2020

# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	48.737 µg/L
Phosphorus-Filterable Reactive as P	0.5	16.3 µg/L

**Phosphorus - Total T0109-44(ADEL)** 14/05/2020

Phosphorus - Total	0.005	0.249 mg/L
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**Silica - Reactive T0111-01(ADEL)** 14/05/2020

Silica - Reactive	0.05	2.27 mg/L
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**TKN as N T0112-01(ADEL)** 14/05/2020

TKN as Nitrogen	0.05	5.46 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	12/05/2020 9:30:00AM
Sample Received Date	12/05/2020 5:39:53PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0802
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	24.3 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	31.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		212 mg/L	
Bicarbonate		259 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	9.4 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Suspended Solids	1.0	4 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	110000 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Fixed Solids	1	2 mg/L	
Volatile Suspended Solids	1	2 mg/L	



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## Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	12/05/2020 9:50:00AM
Sample Received Date	12/05/2020 5:39:44PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0800
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	29.9 µg/L	
Phaeophytin a	0.1	6.49 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	16 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	46500 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	0.9 µg/L	
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	3.99 µg/L	
# Nitrate as Nitrogen		0.000 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	0.9 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		4.75 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	15.548 µg/L	
Phosphorus-Filterable Reactive as P	0.5	5.2 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.190 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	1.99 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	4.75 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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**Analytical Results**

Sampling Point	31515-EPA - Snipe Point
Sampled Date	12/05/2020 9:50:00AM
Sample Received Date	12/05/2020 5:39:44PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0800
Status	Endorsed
Collection Type	Customer Collected

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<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	23.6 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	28.4 mg/L	

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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		210 mg/L	
Bicarbonate		256 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	8.8 NTU	

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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Suspended Solids	1.0	14 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	106000 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	14 mg/L	



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## Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	12/05/2020 10:30:00AM
Sample Received Date	12/05/2020 5:38:47PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0801
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Chlorophyll a & Phaeophytin a T0380-02(ADEL)** 12/05/2020

Chlorophyll a	0.1	27.1 µg/L
Phaeophytin a	0.1	7.66 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Ammonia as N (ADEL)** 13/05/2020

# Ammonia as N	1	17 µg/L
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**Chloride T0104-02(ADEL)** 14/05/2020

Chloride	4.0	43600 mg/L
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**Nitrate + Nitrite as N (ADEL)** 13/05/2020

# Nitrate + Nitrite as N	0.5	1.5 µg/L
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	6.64 µg/L
# Nitrate as Nitrogen		0.312 µg/L

**Nitrite as N (ADEL)** 13/05/2020

# Nitrite as N	0.5	1.2 µg/L
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**Nitrogen - Total TMZ-M06(ADEL)** 28/05/2020

Nitrogen - Total		4.48 mg/L
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**Phosphorus - Filterable Reactive as P (ADEL)** 13/05/2020

# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	25.415 µg/L
Phosphorus-Filterable Reactive as P	0.5	8.5 µg/L

**Phosphorus - Total T0109-44(ADEL)** 14/05/2020

Phosphorus - Total	0.005	0.192 mg/L
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**Silica - Reactive T0111-01(ADEL)** 14/05/2020

Silica - Reactive	0.05	1.68 mg/L
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**TKN as N T0112-01(ADEL)** 14/05/2020

TKN as Nitrogen	0.05	4.48 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	12/05/2020 10:30:00AM
Sample Received Date	12/05/2020 5:38:47PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0801
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	22.2 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	26.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		206 mg/L	
Bicarbonate		251 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	8.8 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Suspended Solids	1.0	14 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	98000 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	14 mg/L	



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## Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	12/05/2020 10:55:00AM
Sample Received Date	12/05/2020 5:39:33PM
Sample Analysis Completed	28/05/2020 5:10:02PM
Sample ID	*2020-004-0807
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Chlorophyll a & Phaeophytin a T0380-02(ADEL)** 12/05/2020

Chlorophyll a	0.1	4.89 µg/L
Phaeophytin a	0.1	3.68 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Ammonia as N (ADEL)** 13/05/2020

# Ammonia as N	1	31 µg/L
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**Chloride T0104-02(ADEL)** 14/05/2020

Chloride	4.0	7170 mg/L
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**Nitrate + Nitrite as N (ADEL)** 13/05/2020

# Nitrate + Nitrite as N	0.5	3.8 µg/L
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	16.8 µg/L
# Nitrate as Nitrogen		3.24 µg/L

**Nitrite as N (ADEL)** 13/05/2020

# Nitrite as N	0.5	0.6 µg/L
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**Nitrogen - Total TMZ-M06(ADEL)** 28/05/2020

Nitrogen - Total		1.91 mg/L
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**Phosphorus - Filterable Reactive as P (ADEL)** 13/05/2020

# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	20.332 µg/L
Phosphorus-Filterable Reactive as P	0.5	6.8 µg/L

**Phosphorus - Total T0109-44(ADEL)** 14/05/2020

Phosphorus - Total	0.005	0.038 mg/L
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**Silica - Reactive T0111-01(ADEL)** 14/05/2020

Silica - Reactive	0.05	7.04 mg/L
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**TKN as N T0112-01(ADEL)** 14/05/2020

TKN as Nitrogen	0.05	1.91 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	12/05/2020 10:55:00AM
Sample Received Date	12/05/2020 5:39:33PM
Sample Analysis Completed	28/05/2020 5:10:02PM
Sample ID	*2020-004-0807
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	18.2 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	18.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		330 mg/L	
Bicarbonate		295 mg/L	
Carbonate		53 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.9 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	4.8 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Suspended Solids	1.0	8 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	13500 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Fixed Solids	1	3 mg/L	
Volatile Suspended Solids	1	5 mg/L	



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## Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	12/05/2020 11:00:00AM
Sample Received Date	12/05/2020 5:39:48PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0797
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	21.9 µg/L	
Phaeophytin a	0.1	7.15 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	15 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	37100 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	0.8 µg/L	
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	3.54 µg/L	
# Nitrate as Nitrogen		0.233 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	0.6 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		3.46 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	20.332 µg/L	
Phosphorus-Filterable Reactive as P	0.5	6.8 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.413 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	0.92 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	3.46 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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**Analytical Results**

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	12/05/2020 11:00:00AM
Sample Received Date	12/05/2020 5:39:48PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0797
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>		15/05/2020
Dissolved Organic Carbon	1	17.9 mg/L
<b>Total Organic Carbon T0158-07(ADEL)</b>		15/05/2020
Total Organic Carbon	1	22.1 mg/L

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		194 mg/L	
Bicarbonate		237 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	8.2 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			21/05/2020
Suspended Solids	1.0	14 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	81100 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			21/05/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	13 mg/L	



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## Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	12/05/2020 11:30:00AM
Sample Received Date	12/05/2020 5:38:26PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0809
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Chlorophyll a & Phaeophytin a T0380-02(ADEL)** 12/05/2020

Chlorophyll a	0.1	2.02 µg/L
Phaeophytin a	0.1	2.11 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*

**Ammonia as N (ADEL)** 13/05/2020

# Ammonia as N	1	24 µg/L
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**Chloride T0104-02(ADEL)** 14/05/2020

Chloride	4.0	2180 mg/L
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**Nitrate + Nitrite as N (ADEL)** 13/05/2020

# Nitrate + Nitrite as N	0.5	6.0 µg/L
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	26.6 µg/L
# Nitrate as Nitrogen		5.44 µg/L

**Nitrite as N (ADEL)** 13/05/2020

# Nitrite as N	0.5	0.6 µg/L
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**Nitrogen - Total TMZ-M06(ADEL)** 28/05/2020

Nitrogen - Total		0.77 mg/L
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**Phosphorus - Filterable Reactive as P (ADEL)** 13/05/2020

# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	8.073 µg/L
Phosphorus-Filterable Reactive as P	0.5	2.7 µg/L

**Phosphorus - Total T0109-44(ADEL)** 14/05/2020

Phosphorus - Total	0.005	0.024 mg/L
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**Silica - Reactive T0111-01(ADEL)** 14/05/2020

Silica - Reactive	0.05	11.7 mg/L
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**TKN as N T0112-01(ADEL)** 14/05/2020

TKN as Nitrogen	0.05	0.76 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	12/05/2020 11:30:00AM
Sample Received Date	12/05/2020 5:38:26PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0809
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	5.7 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	6.0 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		409 mg/L	
Bicarbonate		482 mg/L	
Carbonate		8 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.4 pH units	
Temperature at which pH is measured		22.7 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	7.8 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Suspended Solids	1.0	10 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	5400 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			13/05/2020
Fixed Solids	1	6 mg/L	
Volatile Suspended Solids	1	4 mg/L	



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## Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	12/05/2020 12:00:00PM
Sample Received Date	12/05/2020 5:38:42PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0804
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	20.7 µg/L	
Phaeophytin a	0.1	6.31 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	14 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	41000 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	3.2 µg/L	
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	14.2 µg/L	
# Nitrate as Nitrogen		1.62 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	1.6 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		3.46 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	28.106 µg/L	
Phosphorus-Filterable Reactive as P	0.5	9.4 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.229 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	0.85 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	3.46 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	12/05/2020 12:00:00PM
Sample Received Date	12/05/2020 5:38:42PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0804
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>		15/05/2020
Dissolved Organic Carbon	1	18.1 mg/L
<b>Total Organic Carbon T0158-07(ADEL)</b>		15/05/2020
Total Organic Carbon	1	21.7 mg/L

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		195 mg/L	
Bicarbonate		238 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	8.0 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Suspended Solids	1.0	14 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	79100 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	14 mg/L	



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## Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	12/05/2020 12:00:00PM
Sample Received Date	12/05/2020 5:38:31PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0808
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	1.24 µg/L	
Phaeophytin a	0.1	0.39 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	20 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	2570 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	6.0 µg/L	
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	26.6 µg/L	
# Nitrate as Nitrogen		5.36 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	0.6 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		0.49 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	8.671 µg/L	
Phosphorus-Filterable Reactive as P	0.5	2.9 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.009 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	12.2 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	0.48 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	12/05/2020 12:00:00PM
Sample Received Date	12/05/2020 5:38:31PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0808
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	5.5 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	5.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		403 mg/L	
Bicarbonate		483 mg/L	
Carbonate		4 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.3 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	4.7 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Suspended Solids	1.0	5 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	5320 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Fixed Solids	1	3 mg/L	
Volatile Suspended Solids	1	2 mg/L	



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## Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	12/05/2020 12:40:00PM
Sample Received Date	12/05/2020 5:38:36PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0794
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	29.2 µg/L	
Phaeophytin a	0.1	7.52 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	15 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	43100 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	3.6 µg/L	
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	15.9 µg/L	
# Nitrate as Nitrogen		0.905 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	2.7 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		3.60 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	17.641 µg/L	
Phosphorus-Filterable Reactive as P	0.5	5.9 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.225 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	0.75 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	3.60 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	12/05/2020 12:40:00PM
Sample Received Date	12/05/2020 5:38:36PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0794
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	18.5 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	22.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		199 mg/L	
Bicarbonate		243 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.1 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	8.8 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Suspended Solids	1.0	14 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	79500 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	13 mg/L	



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## Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	12/05/2020 2:30:00PM
Sample Received Date	12/05/2020 5:38:51PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0805
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	13.3 µg/L	
Phaeophytin a	0.1	6.32 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	23 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	21700 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	3.6 µg/L	
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	15.9 µg/L	
# Nitrate as Nitrogen		0.605 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	3.0 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		1.69 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	10.465 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.5 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.079 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	1.21 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	1.69 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	12/05/2020 2:30:00PM
Sample Received Date	12/05/2020 5:38:51PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0805
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	7.5 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	10.1 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		182 mg/L	
Bicarbonate		222 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.1 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	11 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Suspended Solids	1.0	16 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	44200 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Fixed Solids	1	7 mg/L	
Volatile Suspended Solids	1	9 mg/L	



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## Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	12/05/2020 4:00:00PM
Sample Received Date	12/05/2020 5:39:13PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0795
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	19.5 µg/L	
Phaeophytin a	0.1	4.37 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	23 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	8620 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	22.4 µg/L	
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	99.2 µg/L	
# Nitrate as Nitrogen		17.1 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	5.3 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		1.37 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	13.754 µg/L	
Phosphorus-Filterable Reactive as P	0.5	4.6 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.091 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	0.19 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	1.35 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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**Analytical Results**

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	12/05/2020 4:00:00PM
Sample Received Date	12/05/2020 5:39:13PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0795
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	5.5 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	11.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		116 mg/L	
Bicarbonate		142 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.1 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	18 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Suspended Solids	1.0	32 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	16000 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Fixed Solids	1	15 mg/L	
Volatile Suspended Solids	1	17 mg/L	



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## Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	12/05/2020 4:40:00PM
Sample Received Date	12/05/2020 5:39:07PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0796
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			12/05/2020
Chlorophyll a	0.1	2.39 µg/L	
Phaeophytin a	0.1	1.32 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 2.5°C</i>			
<b>Ammonia as N (ADEL)</b>			13/05/2020
# Ammonia as N	1	21 µg/L	
<b>Chloride T0104-02(ADEL)</b>			14/05/2020
Chloride	4.0	11600 mg/L	
<b>Nitrate + Nitrite as N (ADEL)</b>			13/05/2020
# Nitrate + Nitrite as N	0.5	61.8 µg/L	
# Nitrate + Nitrite as NO <sub>3</sub>	2.3	274 µg/L	
# Nitrate as Nitrogen		54.3 µg/L	
<b>Nitrite as N (ADEL)</b>			13/05/2020
# Nitrite as N	0.5	7.5 µg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			28/05/2020
Nitrogen - Total		0.61 mg/L	
<b>Phosphorus - Filterable Reactive as P (ADEL)</b>			13/05/2020
# Phosphorus -Filterable Reactive as PO <sub>4</sub>	1.5	6.877 µg/L	
Phosphorus-Filterable Reactive as P	0.5	2.3 µg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			14/05/2020
Phosphorus - Total	0.005	0.132 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			14/05/2020
Silica - Reactive	0.05	0.29 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			14/05/2020
TKN as Nitrogen	0.05	0.55 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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*Sample temperature at time of receipt 2.5°C*



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## Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	12/05/2020 4:40:00PM
Sample Received Date	12/05/2020 5:39:07PM
Sample Analysis Completed	28/05/2020 5:10:01PM
Sample ID	*2020-004-0796
Status	Endorsed
Collection Type	Customer Collected

<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Dissolved Organic Carbon	1	4.2 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			15/05/2020
Total Organic Carbon	1	5.0 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			13/05/2020
Alkalinity as Calcium Carbonate		127 mg/L	
Bicarbonate		155 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			13/05/2020
pH		8.2 pH units	
Temperature at which pH is measured		22.6 °C	
<b>Turbidity T0018-01(ADEL)</b>			13/05/2020
Turbidity	0.1	2.7 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt 2.5°C</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Suspended Solids	1.0	6 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			14/05/2020
Total Dissolved Solids (by evaporation)	1	25800 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			14/05/2020
Fixed Solids	1	Duplicate source results found. Could not complete calculations. Check results for SS_1.	
		mg/L	
Volatile Suspended Solids	1	3 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

John Martini - Method Development Coordinator

Dean Newman - Algal Specialist

Melissa Phillips - Technical Officer Chemistry

Gayle Polley - Snr Technical Officer



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### Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2020-004-0794	31525	EPA - Villa de Yumpa	12/05/2020	pH	Test not processed within holding time
2020-004-0794	31525	EPA - Villa de Yumpa	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0795	353180	EPA - Tauwichee	12/05/2020	pH	Test not processed within holding time
2020-004-0795	353180	EPA - Tauwichee	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0796	31523	EPA - Long Point	12/05/2020	pH	Test not processed within holding time
2020-004-0796	31523	EPA - Long Point	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0797	31526	EPA - Nth Jack Point	12/05/2020	pH	Test not processed within holding time
2020-004-0797	31526	EPA - Nth Jack Point	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0797	31526	EPA - Nth Jack Point	12/05/2020	Suspended Solids	Test not processed within holding time
2020-004-0797	31526	EPA - Nth Jack Point	12/05/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0798	31518	EPA - 12 South Salt Creek	12/05/2020	pH	Test not processed within holding time
2020-004-0798	31518	EPA - 12 South Salt Creek	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0799	31511	EPA - 3.2km South Salt Creek	12/05/2020	pH	Test not processed within holding time
2020-004-0799	31511	EPA - 3.2km South Salt Creek	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0800	31515	EPA - Snipe Point	12/05/2020	pH	Test not processed within holding time
2020-004-0800	31515	EPA - Snipe Point	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0801	31516	EPA - Seagull Island	12/05/2020	pH	Test not processed within holding time
2020-004-0801	31516	EPA - Seagull Island	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0802	31517	EPA - 1.8km West Salt Creek	12/05/2020	pH	Test not processed within holding time
2020-004-0802	31517	EPA - 1.8km West Salt Creek	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0803	31513	EPA - Parnka Point Boat Ramp	12/05/2020	pH	Test not processed within holding time
2020-004-0803	31513	EPA - Parnka Point Boat Ramp	12/05/2020	Silica - Reactive	Test not processed within holding time



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### Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2020-004-0804	31514	EPA - Stoney Well	12/05/2020	pH	Test not processed within holding time
2020-004-0804	31514	EPA - Stoney Well	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0805	31512	EPA - McGrath Flat North	12/05/2020	pH	Test not processed within holding time
2020-004-0805	31512	EPA - McGrath Flat North	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0807	315191	EPA - Morella Creek @ guage	12/05/2020	pH	Test not processed within holding time
2020-004-0807	315191	EPA - Morella Creek @ guage	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0808	300713	Tilley Swamp Drain D/S Northern Outlet	12/05/2020	pH	Test not processed within holding time
2020-004-0808	300713	Tilley Swamp Drain D/S Northern Outlet	12/05/2020	Silica - Reactive	Test not processed within holding time
2020-004-0808	300713	Tilley Swamp Drain D/S Northern Outlet	12/05/2020	Dissolved Organic Carbon	DOC > TOC but within method uncertainty
2020-004-0809	300711	Tilley Swamp Drain U/S Morella	12/05/2020	pH	Test not processed within holding time
2020-004-0809	300711	Tilley Swamp Drain U/S Morella	12/05/2020	Silica - Reactive	Test not processed within holding time

### Samples Not Collected

Sample ID	S.Point	Description	Sampled Date	Non Collect Reason
2020-004-0806	31519	EPA - Morella Basin at Outlet Regulator	11/05/2020	Customer chose not to collect sample
2020-004-0810	300712	Tilley Swamp Watercourse Outlet Channel	11/05/2020	Customer chose not to collect sample



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## FINAL REPORT: 285472

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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
TMZ-M06	Derived Results and Data Checks	AP4500NORGA
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0109-44	Phosphorous -total Kjeldahl for seawater by automated flow colorimetry	AP4500PF
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T015-05	Total Dissolved Solids by Evaporation	AP2540C
T0104-02	Chloride - Discrete Analyser	AP4500CLE
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
T0111-01	Silica by automated flow colorimetry	AP4500SI02

### 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.