



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

23/10/2019

Dear Patrick

Please find attached the Final Analytical Report for

**Customer Service Request:** 143419-2019-CSR-1  
**Account:** 143419  
**Project:** AWQC-139188 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](mailto:Darren.Seebohm@sawater.com.au)  
+61 8 7424 2150





## FINAL REPORT: 261724

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## Report Information

Project Name	AWQC-139188
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	25/09/2019 7:40:00AM
Sample Received Date	26/09/2019 10:27:40AM
Sample Analysis Completed	11/10/2019 3:36:48PM
Sample ID	2019-005-9283
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt NA</b>			
<b>Chlorophyll a &amp; b T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	55.3 µg/L	
Chlorophyll b	0.1	9.42 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			
Chlorophyll a	0.1	51.8 µg/L	26/09/2019
Phaeophytin a	0.1	9.40 µg/L	
<b>Inorganic Chemistry - Nutrients</b>			
<b>Sample temperature at time of receipt NA</b>			
<b>Ammonia as N T0100-01(ADEL)</b>			09/10/2019
Ammonia as N	0.005	<0.005 mg/L	
<b>Chloride T0104-02(ADEL)</b>			03/10/2019
Chloride	4.0	40100 mg/L	
<b>Nitrate + Nitrite as N T0161-01(ADEL)</b>			27/09/2019
Nitrate + Nitrite as N	0.003	<0.003 mg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			26/09/2019
Nitrogen - Total		4.52 mg/L	
<b>Phosphorus - Filterable Reactive as P T0108-01(ADEL)</b>			27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.006 mg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			30/09/2019
Phosphorus - Total	0.005	0.243 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			03/10/2019
Silica - Reactive	0.05	6.10 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			30/09/2019



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## Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	25/09/2019 7:40:00AM
Sample Received Date	26/09/2019 10:27:40AM
Sample Analysis Completed	11/10/2019 3:36:48PM
Sample ID	2019-005-9283
Status	Endorsed
Collection Type	Customer Collected

<b>TKN as N T0112-01(ADEL)</b>			30/09/2019
TKN as Nitrogen	0.05	4.52 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	20.5 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	28.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
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>			27/09/2019
pH		8.1 pH units	
Temperature at which pH is measured		22.9 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	14 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Suspended Solids	1.0	24 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			09/10/2019
Total Dissolved Solids (by evaporation)	1	81200 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	24 mg/L	



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**Analytical Results**

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	25/09/2019 7:40:00AM
Sample Received Date	26/09/2019 10:27:40AM
Sample Analysis Completed	11/10/2019 3:36:48PM
Sample ID	2019-005-9283
Status	Endorsed
Collection Type	Customer Collected

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## Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	25/09/2019 7:50:00AM
Sample Received Date	26/09/2019 10:26:49AM
Sample Analysis Completed	11/10/2019 3:36:47PM
Sample ID	2019-005-9285
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) 26/09/2019

Chlorophyll a	0.1	51.0 µg/L
Chlorophyll b	0.1	7.72 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) 26/09/2019

Chlorophyll a	0.1	47.9 µg/L
Phaeophytin a	0.1	8.13 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) 09/10/2019

Ammonia as N	0.005	0.071 mg/L
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#### Chloride T0104-02(ADEL) 03/10/2019

Chloride	4.0	44100 mg/L
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#### Nitrate + Nitrite as N T0161-01(ADEL) 27/09/2019

Nitrate + Nitrite as N	0.003	0.004 mg/L
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#### Nitrogen - Total TMZ-M06(ADEL) 26/09/2019

Nitrogen - Total		5.44 mg/L
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#### Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/09/2019

Phosphorus - Filterable Reactive as P	0.003	0.025 mg/L
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#### Phosphorus - Total T0109-44(ADEL) 30/09/2019

Phosphorus - Total	0.005	0.248 mg/L
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#### Silica - Reactive T0111-01(ADEL) 03/10/2019

Silica - Reactive	0.05	5.66 mg/L
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#### TKN as N T0112-01(ADEL) 30/09/2019

TKN as Nitrogen	0.05	5.44 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	25/09/2019 7:50:00AM
Sample Received Date	26/09/2019 10:26:49AM
Sample Analysis Completed	11/10/2019 3:36:47PM
Sample ID	2019-005-9285
Status	Endorsed
Collection Type	Customer Collected

<b>Sample temperature at time of receipt NA</b>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	21.5 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	31.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt NA</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		214 mg/L	
Bicarbonate		261 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.1 pH units	
Temperature at which pH is measured		22.9 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	16 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt NA</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Suspended Solids	1.0	30 mg/L	
<b>Total Dissolved Solids by Evaporation T015-05(ADEL)</b>			09/10/2019
Total Dissolved Solids (by evaporation)	1	84100 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	30 mg/L	



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## Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	25/09/2019 7:50:00AM
Sample Received Date	26/09/2019 10:27:24AM
Sample Analysis Completed	11/10/2019 3:36:47PM
Sample ID	2019-005-9287
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) 26/09/2019

Chlorophyll a	0.1	77.7 µg/L
Chlorophyll b	0.1	11.0 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) 26/09/2019

Chlorophyll a	0.1	73.5 µg/L
Phaeophytin a	0.1	11.2 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) 09/10/2019

Ammonia as N	0.005	<0.005 mg/L
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#### Chloride T0104-02(ADEL) 03/10/2019

Chloride	4.0	41700 mg/L
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#### Nitrate + Nitrite as N T0161-01(ADEL) 27/09/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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#### Nitrogen - Total TMZ-M06(ADEL) 26/09/2019

Nitrogen - Total		4.74 mg/L
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#### Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/09/2019

Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L
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#### Phosphorus - Total T0109-44(ADEL) 30/09/2019

Phosphorus - Total	0.005	0.218 mg/L
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#### Silica - Reactive T0111-01(ADEL) 03/10/2019

Silica - Reactive	0.05	6.58 mg/L
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#### TKN as N T0112-01(ADEL) 30/09/2019

TKN as Nitrogen	0.05	4.74 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	25/09/2019 7:50:00AM
Sample Received Date	26/09/2019 10:27:24AM
Sample Analysis Completed	11/10/2019 3:36:47PM
Sample ID	2019-005-9287
Status	Endorsed
Collection Type	Customer Collected

### Sample temperature at time of receipt NA

**Dissolved Organic Carbon T0158-07(ADEL)** 04/10/2019

Dissolved Organic Carbon 1 20.9 mg/L

**Total Organic Carbon T0158-07(ADEL)** 04/10/2019

Total Organic Carbon 1 29.1 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)** 27/09/2019

Alkalinity as Calcium Carbonate 209 mg/L

Bicarbonate 255 mg/L

Carbonate 0 mg/L

Hydroxide 0 mg/L

**pH T0010-01(ADEL)** 27/09/2019

pH 8.1 pH units

Temperature at which pH is measured 22.8 °C

**Turbidity T0018-01(ADEL)** 30/09/2019

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)** 04/10/2019

Suspended Solids 1.0 30 mg/L

**Total Dissolved Solids by Evaporation T015-05(ADEL)** 09/10/2019

Total Dissolved Solids (by evaporation) 1 82600 mg/L

**Volatile Suspended Solids T0160-01(ADEL)** 04/10/2019

Fixed Solids 1 <1 mg/L

Volatile Suspended Solids 1 30 mg/L



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**Analytical Results**

Sampling Point	31515-EPA - Snipe Point
Sampled Date	25/09/2019 8:05:00AM
Sample Received Date	26/09/2019 10:25:59AM
Sample Analysis Completed	11/10/2019 3:36:44PM
Sample ID	2019-005-9286
Status	Endorsed
Collection Type	Customer Collected

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Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt NA</i>			
<b>Chlorophyll a &amp; b T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	65.3 µg/L	
Chlorophyll b	0.1	10.0 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	60.3 µg/L	
Phaeophytin a	0.1	12.2 µg/L	

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Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt NA</i>			
<b>Ammonia as N T0100-01(ADEL)</b>			09/10/2019
Ammonia as N	0.005	0.012 mg/L	
<b>Chloride T0104-02(ADEL)</b>			03/10/2019
Chloride	4.0	41300 mg/L	
<b>Nitrate + Nitrite as N T0161-01(ADEL)</b>			27/09/2019
Nitrate + Nitrite as N	0.003	0.006 mg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			26/09/2019
Nitrogen - Total		4.90 mg/L	
<b>Phosphorus - Filterable Reactive as P T0108-01(ADEL)</b>			27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.005 mg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			30/09/2019
Phosphorus - Total	0.005	0.241 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			30/09/2019
Silica - Reactive	0.05	2.51 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			30/09/2019
TKN as Nitrogen	0.05	4.89 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	25/09/2019 8:05:00AM
Sample Received Date	26/09/2019 10:25:59AM
Sample Analysis Completed	11/10/2019 3:36:44PM
Sample ID	2019-005-9286
Status	Endorsed
Collection Type	Customer Collected

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**Sample temperature at time of receipt NA**

**Dissolved Organic Carbon T0158-07(ADEL)** 27/09/2019

Dissolved Organic Carbon	1	22.0 mg/L
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**Total Organic Carbon T0158-07(ADEL)** 27/09/2019

Total Organic Carbon	1	29.2 mg/L
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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**Sample temperature at time of receipt NA**

**Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)** 27/09/2019

Alkalinity as Calcium Carbonate	216 mg/L
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Bicarbonate	263 mg/L
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Carbonate	0 mg/L
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Hydroxide	0 mg/L
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**pH T0010-01(ADEL)** 27/09/2019

pH	8.2 pH units
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Temperature at which pH is measured	22.9 °C
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**Turbidity T0018-01(ADEL)** 30/09/2019

Turbidity	0.1	14 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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**Sample temperature at time of receipt NA**

**Suspended Solids T0160-01(ADEL)** 04/10/2019

Suspended Solids	1.0	30 mg/L
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**Total Dissolved Solids by Evaporation T015-05(ADEL)** 09/10/2019

Total Dissolved Solids (by evaporation)	1	82500 mg/L
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**Volatile Suspended Solids T0160-01(ADEL)** 04/10/2019

Fixed Solids	1	<1 mg/L
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Volatile Suspended Solids	1	30 mg/L
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**Analytical Results**

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	25/09/2019 8:25:00AM
Sample Received Date	26/09/2019 10:27:07AM
Sample Analysis Completed	11/10/2019 3:36:46PM
Sample ID	*2019-005-9294
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 NA**

**Chlorophyll a & b T0380-02(ADEL)** 26/09/2019

Chlorophyll a	0.1	169 µg/L
Chlorophyll b	0.1	8.91 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)** 26/09/2019

Chlorophyll a	0.1	150 µg/L
Phaeophytin a	0.1	35.6 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)** 09/10/2019

Ammonia as N	0.005	0.203 mg/L
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**Chloride T0104-02(ADEL)** 03/10/2019

Chloride	4.0	6150 mg/L
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**Nitrate + Nitrite as N T0161-01(ADEL)** 27/09/2019

Nitrate + Nitrite as N	0.003	0.003 mg/L
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**Nitrogen - Total TMZ-M06(ADEL)** 26/09/2019

Nitrogen - Total		2.63 mg/L
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**Phosphorus - Filterable Reactive as P T0108-01(ADEL)** 27/09/2019

Phosphorus - Filterable Reactive as P	0.003	0.014 mg/L
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**Phosphorus - Total T0109-44(ADEL)** 08/10/2019

Phosphorus - Total	0.005	0.330 mg/L
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**Silica - Reactive T0111-01(ADEL)** 30/09/2019

Silica - Reactive	0.05	15.8 mg/L
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**TKN as N T0112-01(ADEL)** 08/10/2019

TKN as Nitrogen	0.05	2.63 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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## Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	25/09/2019 8:25:00AM
Sample Received Date	26/09/2019 10:27:07AM
Sample Analysis Completed	11/10/2019 3:36:46PM
Sample ID	*2019-005-9294
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	18.3 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	28.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		359 mg/L	
Bicarbonate		429 mg/L	
Carbonate		4 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			27/09/2019
Conductivity	2	9910 µS/cm	
Total Dissolved Solids (by EC)	1	5760 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.3 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	60 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Suspended Solids	1.0	30 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	30 mg/L	



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**Analytical Results**

Sampling Point	31516-EPA - Seagull Island
Sampled Date	25/09/2019 8:30:00AM
Sample Received Date	26/09/2019 10:26:32AM
Sample Analysis Completed	11/10/2019 3:36:46PM
Sample ID	2019-005-9284
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 NA*

**Chlorophyll a & b T0380-02(ADEL)** 26/09/2019

Chlorophyll a	0.1	59.3 µg/L
Chlorophyll b	0.1	8.54 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)** 26/09/2019

Chlorophyll a	0.1	56.1 µg/L
Phaeophytin a	0.1	8.64 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)** 09/10/2019

Ammonia as N	0.005	0.017 mg/L
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**Chloride T0104-02(ADEL)** 03/10/2019

Chloride	4.0	40100 mg/L
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**Nitrate + Nitrite as N T0161-01(ADEL)** 27/09/2019

Nitrate + Nitrite as N	0.003	0.009 mg/L
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**Nitrogen - Total TMZ-M06(ADEL)** 26/09/2019

Nitrogen - Total		4.92 mg/L
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**Phosphorus - Filterable Reactive as P T0108-01(ADEL)** 27/09/2019

Phosphorus - Filterable Reactive as P	0.003	0.005 mg/L
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**Phosphorus - Total T0109-44(ADEL)** 30/09/2019

Phosphorus - Total	0.005	0.218 mg/L
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**Silica - Reactive T0111-01(ADEL)** 30/09/2019

Silica - Reactive	0.05	2.40 mg/L
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**TKN as N T0112-01(ADEL)** 30/09/2019

TKN as Nitrogen	0.05	4.91 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	25/09/2019 8:30:00AM
Sample Received Date	26/09/2019 10:26:32AM
Sample Analysis Completed	11/10/2019 3:36:46PM
Sample ID	2019-005-9284
Status	Endorsed
Collection Type	Customer Collected

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<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	20.9 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	29.7 mg/L	

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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		213 mg/L	
Bicarbonate		260 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			27/09/2019
Conductivity	2	98900 µS/cm	
Total Dissolved Solids (by EC)	1	83900 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.2 pH units	
Temperature at which pH is measured		22.9 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	15 NTU	

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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Suspended Solids	1.0	30 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	30 mg/L	



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**Analytical Results**

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	25/09/2019 9:00:00AM
Sample Received Date	26/09/2019 10:28:15AM
Sample Analysis Completed	11/10/2019 3:36:48PM
Sample ID	2019-005-9282
Status	Endorsed
Collection Type	Customer Collected

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Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Chlorophyll a &amp; b T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	53.9 µg/L	
Chlorophyll b	0.1	7.32 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	50.2 µg/L	
Phaeophytin a	0.1	8.96 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Ammonia as N T0100-01(ADEL)</b>			09/10/2019
Ammonia as N	0.005	0.011 mg/L	
<b>Chloride T0104-02(ADEL)</b>			03/10/2019
Chloride	4.0	38000 mg/L	
<b>Nitrate + Nitrite as N T0161-01(ADEL)</b>			27/09/2019
Nitrate + Nitrite as N	0.003	0.009 mg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			26/09/2019
Nitrogen - Total		4.66 mg/L	
<b>Phosphorus - Filterable Reactive as P T0108-01(ADEL)</b>			27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			30/09/2019
Phosphorus - Total	0.005	0.143 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			03/10/2019
Silica - Reactive	0.05	5.16 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			30/09/2019
TKN as Nitrogen	0.05	4.65 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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**Analytical Results**

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	25/09/2019 9:00:00AM
Sample Received Date	26/09/2019 10:28:15AM
Sample Analysis Completed	11/10/2019 3:36:48PM
Sample ID	2019-005-9282
Status	Endorsed
Collection Type	Customer Collected

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<b>Sample temperature at time of receipt NA</b>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	19.9 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	28.6 mg/L	

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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt NA</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		227 mg/L	
Bicarbonate		277 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			30/09/2019
Conductivity	2	95300 µS/cm	
Total Dissolved Solids (by EC)	1	79800 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.2 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	18 NTU	

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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt NA</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Suspended Solids	1.0	40 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Fixed Solids	1	2 mg/L	
Volatile Suspended Solids	1	38 mg/L	



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**Analytical Results**

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	25/09/2019 9:10:00AM
Sample Received Date	26/09/2019 10:29:40AM
Sample Analysis Completed	14/10/2019 9:25:29AM
Sample ID	2019-005-9292
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 NA**

**Chlorophyll a & b T0380-02(ADEL)** 26/09/2019

Chlorophyll a	0.1	8.49 µg/L
Chlorophyll b	0.1	0.55 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)** 26/09/2019

Chlorophyll a	0.1	7.86 µg/L
Phaeophytin a	0.1	1.27 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)** 09/10/2019

Ammonia as N	0.005	0.074 mg/L
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**Chloride T0104-02(ADEL)** 03/10/2019

Chloride	4.0	4370 mg/L
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**Nitrate + Nitrite as N T0161-01(ADEL)** 27/09/2019

Nitrate + Nitrite as N	0.003	0.036 mg/L
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**Nitrogen - Total TMZ-M06(ADEL)** 26/09/2019

Nitrogen - Total		1.26 mg/L
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**Phosphorus - Filterable Reactive as P T0108-01(ADEL)** 27/09/2019

Phosphorus - Filterable Reactive as P	0.003	0.007 mg/L
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**Phosphorus - Total T0109-44(ADEL)** 30/09/2019

Phosphorus - Total	0.005	0.052 mg/L
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**Silica - Reactive T0111-01(ADEL)** 30/09/2019

Silica - Reactive	0.05	6.81 mg/L
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**TKN as N T0112-01(ADEL)** 30/09/2019

TKN as Nitrogen	0.05	1.22 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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**Analytical Results**

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	25/09/2019 9:10:00AM
Sample Received Date	26/09/2019 10:29:40AM
Sample Analysis Completed	14/10/2019 9:25:29AM
Sample ID	2019-005-9292
Status	Endorsed
Collection Type	Customer Collected

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<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	10.2 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	10.6 mg/L	

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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		313 mg/L	
Bicarbonate		328 mg/L	
Carbonate		26 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			30/09/2019
Conductivity	2	12800 µS/cm	
Total Dissolved Solids (by EC)	1	7550 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.7 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	2.5 NTU	

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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Suspended Solids	1.0	16 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Fixed Solids	1	10 mg/L	
Volatile Suspended Solids	1	6 mg/L	



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## Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	25/09/2019 9:25:00AM
Sample Received Date	26/09/2019 10:26:15AM
Sample Analysis Completed	11/10/2019 3:36:45PM
Sample ID	2019-005-9288
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt NA</i>			
<b>Chlorophyll a &amp; b T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	61.5 µg/L	
Chlorophyll b	0.1	7.35 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	73.8 µg/L	
Phaeophytin a	0.1	9.55 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt NA</i>			
<b>Ammonia as N T0100-01(ADEL)</b>			09/10/2019
Ammonia as N	0.005	<0.005 mg/L	
<b>Chloride T0104-02(ADEL)</b>			03/10/2019
Chloride	4.0	38300 mg/L	
<b>Nitrate + Nitrite as N T0161-01(ADEL)</b>			27/09/2019
Nitrate + Nitrite as N	0.003	0.007 mg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			26/09/2019
Nitrogen - Total		3.80 mg/L	
<b>Phosphorus - Filterable Reactive as P T0108-01(ADEL)</b>			27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.006 mg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			30/09/2019
Phosphorus - Total	0.005	0.178 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			30/09/2019
Silica - Reactive	0.05	1.11 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			30/09/2019
TKN as Nitrogen	0.05	3.79 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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**Analytical Results**

Sampling Point	31514-EPA - Stoney Well
Sampled Date	25/09/2019 9:25:00AM
Sample Received Date	26/09/2019 10:26:15AM
Sample Analysis Completed	11/10/2019 3:36:45PM
Sample ID	2019-005-9288
Status	Endorsed
Collection Type	Customer Collected

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<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	20.3 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	27.6 mg/L	

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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		223 mg/L	
Bicarbonate		272 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			30/09/2019
Conductivity	2	92700 µS/cm	
Total Dissolved Solids (by EC)	1	76900 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.2 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	21 NTU	

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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Suspended Solids	1.0	26 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	26 mg/L	



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## Analytical Results

Sampling Point	300712-Tilley Swamp Watercourse Outlet Channel
Sampled Date	25/09/2019 9:35:00AM
Sample Received Date	26/09/2019 10:28:32AM
Sample Analysis Completed	14/10/2019 9:25:27AM
Sample ID	*2019-005-9295
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Chlorophyll a &amp; b T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	1.53 µg/L	
Chlorophyll b	0.1	0.28 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	1.24 µg/L	
Phaeophytin a	0.1	0.60 µg/L	
<i>Sample temperature at time of receipt NA</i>			
<b>Ammonia as N T0100-01(ADEL)</b>			09/10/2019
Ammonia as N	0.005	0.123 mg/L	
<b>Chloride T0104-02(ADEL)</b>			03/10/2019
Chloride	4.0	4370 mg/L	
<b>Nitrate + Nitrite as N T0161-01(ADEL)</b>			27/09/2019
Nitrate + Nitrite as N	0.003	0.007 mg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			26/09/2019
Nitrogen - Total		2.24 mg/L	
<b>Phosphorus - Filterable Reactive as P T0108-01(ADEL)</b>			27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.012 mg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			30/09/2019
Phosphorus - Total	0.005	0.045 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			30/09/2019
Silica - Reactive	0.05	7.71 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			08/10/2019
TKN as Nitrogen	0.05	2.23 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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**Analytical Results**

Sampling Point	300712-Tilley Swamp Watercourse Outlet Channel
Sampled Date	25/09/2019 9:35:00AM
Sample Received Date	26/09/2019 10:28:32AM
Sample Analysis Completed	14/10/2019 9:25:27AM
Sample ID	*2019-005-9295
Status	Endorsed
Collection Type	Customer Collected

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<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	28.4 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	30.1 mg/L	

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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		427 mg/L	
Bicarbonate		514 mg/L	
Carbonate		4 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			30/09/2019
Conductivity	2	9300 µS/cm	
Total Dissolved Solids (by EC)	1	5390 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.3 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	3.5 NTU	

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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Suspended Solids	1.0	12 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Fixed Solids	1	7 mg/L	
Volatile Suspended Solids	1	5 mg/L	



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**Analytical Results**

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	25/09/2019 10:00:00AM
Sample Received Date	26/09/2019 10:29:06AM
Sample Analysis Completed	14/10/2019 9:25:29AM
Sample ID	2019-005-9279
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 NA*

**Chlorophyll a & b T0380-02(ADEL)** 26/09/2019

Chlorophyll a	0.1	39.4 µg/L
Chlorophyll b	0.1	5.36 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)** 26/09/2019

Chlorophyll a	0.1	36.7 µg/L
Phaeophytin a	0.1	6.65 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)** 09/10/2019

Ammonia as N	0.005	<0.005 mg/L
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**Chloride T0104-02(ADEL)** 03/10/2019

Chloride	4.0	35100 mg/L
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**Nitrate + Nitrite as N T0161-01(ADEL)** 27/09/2019

Nitrate + Nitrite as N	0.003	0.004 mg/L
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**Nitrogen - Total TMZ-M06(ADEL)** 26/09/2019

Nitrogen - Total		4.24 mg/L
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**Phosphorus - Filterable Reactive as P T0108-01(ADEL)** 27/09/2019

Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L
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**Phosphorus - Total T0109-44(ADEL)** 30/09/2019

Phosphorus - Total	0.005	0.260 mg/L
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**Silica - Reactive T0111-01(ADEL)** 30/09/2019

Silica - Reactive	0.05	0.65 mg/L
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**TKN as N T0112-01(ADEL)** 30/09/2019

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	25/09/2019 10:00:00AM
Sample Received Date	26/09/2019 10:29:06AM
Sample Analysis Completed	14/10/2019 9:25:29AM
Sample ID	2019-005-9279
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	19.3 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	25.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		214 mg/L	
Bicarbonate		261 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			30/09/2019
Conductivity	2	91400 µS/cm	
Total Dissolved Solids (by EC)	1	75500 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.2 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	16 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Suspended Solids	1.0	37 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Fixed Solids	1	7 mg/L	
Volatile Suspended Solids	1	30 mg/L	



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## Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	25/09/2019 10:05:00AM
Sample Received Date	26/09/2019 10:29:57AM
Sample Analysis Completed	11/10/2019 3:36:49PM
Sample ID	2019-005-9293
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Chlorophyll a &amp; b T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	2.08 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)	
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	1.69 µg/L	
Phaeophytin a	0.1	0.59 µg/L	
<i>Sample temperature at time of receipt NA</i>			
<b>Ammonia as N T0100-01(ADEL)</b>			09/10/2019
Ammonia as N	0.005	0.133 mg/L	
<b>Chloride T0104-02(ADEL)</b>			03/10/2019
Chloride	4.0	4810 mg/L	
<b>Nitrate + Nitrite as N T0161-01(ADEL)</b>			27/09/2019
Nitrate + Nitrite as N	0.003	0.552 mg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			26/09/2019
Nitrogen - Total		1.29 mg/L	
<b>Phosphorus - Filterable Reactive as P T0108-01(ADEL)</b>			27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.018 mg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			30/09/2019
Phosphorus - Total	0.005	0.025 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			30/09/2019
Silica - Reactive	0.05	8.03 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			30/09/2019
TKN as Nitrogen	0.05	0.74 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	25/09/2019 10:05:00AM
Sample Received Date	26/09/2019 10:29:57AM
Sample Analysis Completed	11/10/2019 3:36:49PM
Sample ID	2019-005-9293
Status	Endorsed
Collection Type	Customer Collected

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<b>Sample temperature at time of receipt NA</b>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	7.0 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	7.1 mg/L	

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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt NA</b>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		404 mg/L	
Bicarbonate		487 mg/L	
Carbonate		3 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			30/09/2019
Conductivity	2	13700 µS/cm	
Total Dissolved Solids (by EC)	1	8120 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.3 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	12 NTU	

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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<b>Sample temperature at time of receipt NA</b>			
<b>Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Suspended Solids	1.0	24 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Fixed Solids	1	19 mg/L	
Volatile Suspended Solids	1	5 mg/L	



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## Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	25/09/2019 11:15:00AM
Sample Received Date	26/09/2019 10:29:23AM
Sample Analysis Completed	14/10/2019 9:25:28AM
Sample ID	2019-005-9290
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt NA</i>			
<b>Chlorophyll a &amp; b T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	45.1 µg/L	
Chlorophyll b	0.1	5.70 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	42.9 µg/L	
Phaeophytin a	0.1	5.92 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt NA</i>			
<b>Ammonia as N T0100-01(ADEL)</b>			09/10/2019
Ammonia as N	0.005	<0.005 mg/L	
<b>Chloride T0104-02(ADEL)</b>			03/10/2019
Chloride	4.0	37700 mg/L	
<b>Nitrate + Nitrite as N T0161-01(ADEL)</b>			27/09/2019
Nitrate + Nitrite as N	0.003	<0.003 mg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			26/09/2019
Nitrogen - Total		3.87 mg/L	
<b>Phosphorus - Filterable Reactive as P T0108-01(ADEL)</b>			27/09/2019
Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			30/09/2019
Phosphorus - Total	0.005	0.171 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			03/10/2019
Silica - Reactive	0.05	4.03 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			30/09/2019
TKN as Nitrogen	0.05	3.87 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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## Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	25/09/2019 11:15:00AM
Sample Received Date	26/09/2019 10:29:23AM
Sample Analysis Completed	14/10/2019 9:25:28AM
Sample ID	2019-005-9290
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	18.6 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	23.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		216 mg/L	
Bicarbonate		263 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			30/09/2019
Conductivity	2	89600 µS/cm	
Total Dissolved Solids (by EC)	1	73500 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.2 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Suspended Solids	1.0	37 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Fixed Solids	1	10 mg/L	
Volatile Suspended Solids	1	27 mg/L	



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## Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	25/09/2019 12:00:00PM
Sample Received Date	26/09/2019 10:28:49AM
Sample Analysis Completed	11/10/2019 3:36:49PM
Sample ID	2019-005-9289
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Chlorophyll a &amp; b T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	23.5 µg/L	
Chlorophyll b	0.1	2.34 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	21.1 µg/L	
Phaeophytin a	0.1	4.88 µg/L	
<i>Sample temperature at time of receipt NA</i>			
<b>Ammonia as N T0100-01(ADEL)</b>			09/10/2019
Ammonia as N	0.005	0.030 mg/L	
<b>Chloride T0104-02(ADEL)</b>			03/10/2019
Chloride	4.0	34200 mg/L	
<b>Nitrate + Nitrite as N T0161-01(ADEL)</b>			27/09/2019
Nitrate + Nitrite as N	0.003	0.003 mg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			26/09/2019
Nitrogen - Total		3.26 mg/L	
<b>Phosphorus - Filterable Reactive as P T0108-01(ADEL)</b>			27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.005 mg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			30/09/2019
Phosphorus - Total	0.005	0.209 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			30/09/2019
Silica - Reactive	0.05	0.24 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			30/09/2019
TKN as Nitrogen	0.05	3.26 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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## Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	25/09/2019 12:00:00PM
Sample Received Date	26/09/2019 10:28:49AM
Sample Analysis Completed	11/10/2019 3:36:49PM
Sample ID	2019-005-9289
Status	Endorsed
Collection Type	Customer Collected

### Sample temperature at time of receipt NA

**Dissolved Organic Carbon T0158-07(ADEL)** 04/10/2019

Dissolved Organic Carbon 1 17.5 mg/L

**Total Organic Carbon T0158-07(ADEL)** 04/10/2019

Total Organic Carbon 1 20.8 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)** 27/09/2019

Alkalinity as Calcium Carbonate 200 mg/L

Bicarbonate 244 mg/L

Carbonate 0 mg/L

Hydroxide 0 mg/L

**Conductivity & Total Dissolved Solids T0016-01(ADEL)** 30/09/2019

Conductivity 2 81500 µS/cm

Total Dissolved Solids (by EC) 1 64900 mg/L

**pH T0010-01(ADEL)** 27/09/2019

pH 8.3 pH units

Temperature at which pH is measured 22.9 °C

**Turbidity T0018-01(ADEL)** 30/09/2019

Turbidity 0.1 13 NTU

## Inorganic Chemistry - Waste Water LOR Result Test Start Date

### Sample temperature at time of receipt NA

**Suspended Solids T0160-01(ADEL)** 04/10/2019

Suspended Solids 1.0 18 mg/L

**Volatile Suspended Solids T0160-01(ADEL)** 04/10/2019

Fixed Solids 1 <1 mg/L

Volatile Suspended Solids 1 18 mg/L



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## Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	25/09/2019 2:10:00PM
Sample Received Date	26/09/2019 10:27:58AM
Sample Analysis Completed	14/10/2019 9:25:30AM
Sample ID	2019-005-9281
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt NA</i>			
<b>Chlorophyll a &amp; b T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	2.43 µg/L	
Chlorophyll b	0.1	0.10 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
<b>Chlorophyll a &amp; Phaeophytin a T0380-02(ADEL)</b>			26/09/2019
Chlorophyll a	0.1	1.75 µg/L	
Phaeophytin a	0.1	1.19 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt NA</i>			
<b>Ammonia as N T0100-01(ADEL)</b>			09/10/2019
Ammonia as N	0.005	0.021 mg/L	
<b>Chloride T0104-02(ADEL)</b>			03/10/2019
Chloride	4.0	16000 mg/L	
<b>Nitrate + Nitrite as N T0161-01(ADEL)</b>			27/09/2019
Nitrate + Nitrite as N	0.003	0.040 mg/L	
<b>Nitrogen - Total TMZ-M06(ADEL)</b>			26/09/2019
Nitrogen - Total		4.31 mg/L	
<b>Phosphorus - Filterable Reactive as P T0108-01(ADEL)</b>			27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.012 mg/L	
<b>Phosphorus - Total T0109-44(ADEL)</b>			30/09/2019
Phosphorus - Total	0.005	0.072 mg/L	
<b>Silica - Reactive T0111-01(ADEL)</b>			30/09/2019
Silica - Reactive	0.05	0.23 mg/L	
<b>TKN as N T0112-01(ADEL)</b>			30/09/2019
TKN as Nitrogen	0.05	4.27 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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## Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	25/09/2019 2:10:00PM
Sample Received Date	26/09/2019 10:27:58AM
Sample Analysis Completed	14/10/2019 9:25:30AM
Sample ID	2019-005-9281
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	10.3 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	11.0 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		148 mg/L	
Bicarbonate		181 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			30/09/2019
Conductivity	2	44900 µS/cm	
Total Dissolved Solids (by EC)	1	30800 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.0 pH units	
Temperature at which pH is measured		22.9 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	3.0 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Suspended Solids	1.0	4 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			02/10/2019
Fixed Solids	1	2 mg/L	
Volatile Suspended Solids	1	2 mg/L	



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## Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	25/09/2019 3:00:00PM
Sample Received Date	26/09/2019 10:25:41AM
Sample Analysis Completed	11/10/2019 3:36:45PM
Sample ID	2019-005-9280
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) 26/09/2019

Chlorophyll a	0.1	19.0 µg/L
Chlorophyll b	0.1	2.11 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) 26/09/2019

Chlorophyll a	0.1	16.4 µg/L
Phaeophytin a	0.1	5.22 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) 09/10/2019

Ammonia as N	0.005	0.113 mg/L
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#### Chloride T0104-02(ADEL) 03/10/2019

Chloride	4.0	4150 mg/L
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#### Nitrate + Nitrite as N T0161-01(ADEL) 27/09/2019

Nitrate + Nitrite as N	0.003	0.034 mg/L
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#### Nitrogen - Total TMZ-M06(ADEL) 26/09/2019

Nitrogen - Total		1.51 mg/L
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#### Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/09/2019

Phosphorus - Filterable Reactive as P	0.003	0.035 mg/L
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#### Phosphorus - Total T0109-44(ADEL) 30/09/2019

Phosphorus - Total	0.005	0.183 mg/L
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#### Silica - Reactive T0111-01(ADEL) 30/09/2019

Silica - Reactive	0.05	0.30 mg/L
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#### TKN as N T0112-01(ADEL) 30/09/2019

TKN as Nitrogen	0.05	1.48 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	25/09/2019 3:00:00PM
Sample Received Date	26/09/2019 10:25:41AM
Sample Analysis Completed	11/10/2019 3:36:45PM
Sample ID	2019-005-9280
Status	Endorsed
Collection Type	Customer Collected

<i>Sample temperature at time of receipt NA</i>			
<b>Dissolved Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Dissolved Organic Carbon	1	8.7 mg/L	
<b>Total Organic Carbon T0158-07(ADEL)</b>			04/10/2019
Total Organic Carbon	1	11.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)</b>			27/09/2019
Alkalinity as Calcium Carbonate		111 mg/L	
Bicarbonate		136 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
<b>Conductivity &amp; Total Dissolved Solids T0016-01(ADEL)</b>			27/09/2019
Conductivity	2	9010 µS/cm	
Total Dissolved Solids (by EC)	1	5210 mg/L	
<b>pH T0010-01(ADEL)</b>			27/09/2019
pH		8.2 pH units	
Temperature at which pH is measured		22.8 °C	
<b>Turbidity T0018-01(ADEL)</b>			30/09/2019
Turbidity	0.1	21 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
<b>Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Suspended Solids	1.0	35 mg/L	
<b>Volatile Suspended Solids T0160-01(ADEL)</b>			04/10/2019
Fixed Solids	1	16 mg/L	
Volatile Suspended Solids	1	19 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

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Testing



## FINAL REPORT: 261724

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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 fow colorimetry	AP4500SI02
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T015-05	Total Dissolved Solids by Evaporation	AP2540C
T0158-07	Total and Dissolved Organic Carbon (OI Analytical)	SM5310C
T0160-01	Suspended Solids 103C to 105C	AP2540DE
T0160-01	Suspended Solids 103C to 105C	AP4500
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.