Adelaide SA 5001

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Tel: 1300 653 366

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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

143419 Account:

AWQC-139188 DEW - Healthy Coorong Healthy Basin Phase 0 - Non routine Project:

19/20

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

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

Yours sincerely,

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



a Square Tel: 1300 653 366 A 5000 Fax: 1300 883 171

Email: awqc@sawater.com.au



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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
Sample temperature at time of receipt NA	1		
Chlorophyll a & b T0380-02(ADEL)			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)	20/00/2040
Chlorophyll a & Phaeophytin a T0380-02(•		26/09/2019
Chlorophyll a	0.1	51.8 μg/L	
Phaeophytin a	0.1	9.40 µg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt NA	1		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	<0.005 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	40100 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	<0.003 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		4.52 mg/L	
Phosphorus - Filterable Reactive as P T01	08-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.006 mg/L	
Phosphorus - Total T0109-44(ADEL)		-	30/09/2019
Phosphorus - Total	0.005	0.243 mg/L	
Silica - Reactive T0111-01(ADEL)			03/10/2019
Silica - Reactive	0.05	6.10 mg/L	
TKN as N T0112-01(ADEL)		-	30/09/2019



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Test Start Date

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LOR

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Analytical R	Results
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Organic Chemistry

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

TKN as N T0112-01(ADEL) 30/09/2019

Result

TKN as Nitrogen 0.05 4.52 mg/L

Sample temperature at time of receipt Dissolved Organic Carbon T0158-07(AL			04/10/2019
Dissolved Organic Carbon	1	20.5 mg/L	
Total Organic Carbon T0158-07(ADEL)			04/10/2019
Total Organic Carbon	1	28.9 mg/L	
Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt		1/ADEL\	27/09/2019
Alkalinity Carbonate Bicarbonate and I		,	27/09/2019
Alkalinity Carbonate Bicarbonate and I Alkalinity as Calcium Carbonate		206 mg/L	27/09/2019
Alkalinity Carbonate Bicarbonate and I Alkalinity as Calcium Carbonate Bicarbonate		206 mg/L 251 mg/L	27/09/2019
Alkalinity Carbonate Bicarbonate and I Alkalinity as Calcium Carbonate Bicarbonate Carbonate		206 mg/L 251 mg/L 0 mg/L	27/09/2019
Alkalinity Carbonate Bicarbonate and I Alkalinity as Calcium Carbonate Bicarbonate Carbonate Hydroxide		206 mg/L 251 mg/L	27/09/2019 27/09/2019
Alkalinity Carbonate Bicarbonate and I Alkalinity as Calcium Carbonate Bicarbonate Carbonate		206 mg/L 251 mg/L 0 mg/L 0 mg/L	
Alkalinity Carbonate Bicarbonate and I Alkalinity as Calcium Carbonate Bicarbonate Carbonate Hydroxide PH T0010-01(ADEL)		206 mg/L 251 mg/L 0 mg/L 0 mg/L 8.1 pH units	
Alkalinity Carbonate Bicarbonate and I Alkalinity as Calcium Carbonate Bicarbonate Carbonate Hydroxide PH T0010-01(ADEL) pH		206 mg/L 251 mg/L 0 mg/L 0 mg/L	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt N.	A		
Suspended Solids T0160-01(ADEL)			04/10/2019
Suspended Solids	1.0	24 mg/L	
Total Dissolved Solids by Evaporation To)15-05(ADEL)		09/10/2019
Total Dissolved Solids (by evaporation)	1	81200 mg/L	
Volatile Suspended Solids T0160-01(ADE	L)		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

25/09/2019 7:40:00AM **Sampled Date** 26/09/2019 10:27:40AM **Sample Received Date** 11/10/2019 3:36:48PM Sample Analysis Completed

2019-005-9283 Sample ID Status Endorsed

Customer Collected Collection Type



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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
Sample temperature at time of receipt N.	A		_
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 (
Chlorophyll a & Phaeophytin a T0380-02(ADEL)	Phaeophytins)	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
Sample temperature at time of receipt N.	<u></u>		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.071 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	44100 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)		, and the second	27/09/2019
Nitrate + Nitrite as N	0.003	0.004 mg/L	
Nitrogen - Total TMZ-M06(ADEL)		3	26/09/2019
Nitrogen - Total		5.44 mg/L	
Phosphorus - Filterable Reactive as P T0	108-01(ADFL)	0 mg/2	27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.025 mg/L	
Phosphorus - Total T0109-44(ADEL)		o.ozo mg/z	30/09/2019
Phosphorus - Total	0.005	0.248 mg/L	
Silica - Reactive T0111-01(ADEL)		0.240 mg/L	03/10/2019
Silica - Reactive	0.05	5.66 mg/L	
TKN as N T0112-01(ADEL)		5.00 mg/L	30/09/2019
TKN as Nitrogen	0.05	5.44 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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04/10/2019

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Analytical Results

31511-EPA - 3.2km South Salt Creek **Sampling Point**

25/09/2019 7:50:00AM Sampled Date 26/09/2019 10:26:49AM Sample Received Date 11/10/2019 3:36:47PM Sample Analysis Completed 2019-005-9285

Sample ID **Status** Endorsed

Customer Collected Collection Type

San	ıple	tempe	rature	at time	of re	ceipt NA

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

Dissolved Organic Carbon 1 21.5 mg/L

Total Organic Carbon T0158-07(ADEL) Total Organic Carbon 1 31.2 mg/L

Inorganic Chemistry - Physical LOR Result **Test Start Date**

Sample temperature at time of receipt NA

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

Alkalinity as Calcium Carbonate 214 mg/L Bicarbonate 261 mg/L Carbonate 0 mg/L Hydroxide 0 mg/L

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

8.1 pH units

Temperature at which pH is measured 22.9 °C

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

Turbidity 0 1 **16 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

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

Total Dissolved Solids (by evaporation) 1 84100 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 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
Sample temperature at time of receipt N	IA		
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
Sample temperature at time of receipt N	IA		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	<0.005 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	41700 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	<0.003 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		4.74 mg/L	
Phosphorus - Filterable Reactive as P To	0108-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L	
Phosphorus - Total T0109-44(ADEL)			30/09/2019
Phosphorus - Total	0.005	0.218 mg/L	
Silica - Reactive T0111-01(ADEL)		Ç	03/10/2019
Silica - Reactive	0.05	6.58 mg/L	
TKN as N T0112-01(ADEL)		3	30/09/2019
TKN as Nitrogen	0.05	4.74 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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04/10/2019

30/09/2019

04/10/2019

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Analytical Results

31517-EPA - 1.8km West Salt Creek **Sampling Point**

25/09/2019 7:50:00AM Sampled Date 26/09/2019 10:27:24AM Sample Received Date 11/10/2019 3:36:47PM Sample Analysis Completed

2019-005-9287 Sample ID **Status** Endorsed

Customer Collected Collection Type

Sample temperature a	at time of receipt NA
----------------------	-----------------------

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

Dissolved Organic Carbon 1 20.9 mg/L

Total Organic Carbon T0158-07(ADEL) Total Organic Carbon 1 29.1 mg/L

Inorganic Chemistry - Physical LOR Result **Test Start Date**

Sample temperature at time of receipt NA

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

Alkalinity as Calcium Carbonate 209 mg/L Bicarbonate 255 mg/L Carbonate 0 mg/L Hydroxide 0 mg/L

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

8.1 pH units

Temperature at which pH is measured 22.8 °C **Turbidity T0018-01(ADEL)**

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

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

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

Volatile Suspended Solids T0160-01(ADEL)

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

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt N	Ά		_
Chlorophyll a & b T0380-02(ADEL)			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)	
Chlorophyll a & Phaeophytin a T0380-02	(ADEL)		26/09/2019
Chlorophyll a	0.1	60.3 µg/L	
Phaeophytin a	0.1	12.2 µg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt N	'A		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.012 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	41300 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.006 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		4.90 mg/L	
Phosphorus - Filterable Reactive as P T0	108-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.005 mg/L	
Phosphorus - Total T0109-44(ADEL)			30/09/2019
Phosphorus - Total	0.005	0.241 mg/L	
Silica - Reactive T0111-01(ADEL)			30/09/2019
Silica - Reactive	0.05	2.51 mg/L	
TKN as N T0112-01(ADEL)			30/09/2019
TKN as Nitrogen	0.05	4.89 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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27/09/2019

09/10/2019

04/10/2019

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Analytical Results

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

Sample ID **Status** Endorsed

Customer Collected Collection Type

Sample temperature a	t time of receipt NA
----------------------	----------------------

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

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

Total Organic Carbon 1 29.2 mg/L

Inorganic Chemistry - Physical LOR Result **Test Start Date**

Sample temperature at time of receipt NA

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

Alkalinity as Calcium Carbonate 216 mg/L Bicarbonate 263 mg/L Carbonate 0 mg/L Hydroxide 0 mg/L

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

8.2 pH units Temperature at which pH is measured 22.9 °C

30/09/2019

Turbidity T0018-01(ADEL)

Turbidity 0 1 14 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)

Total Dissolved Solids (by evaporation) 1 82500 mg/L

Volatile Suspended Solids T0160-01(ADEL)

Fixed Solids 1 <1 mg/L

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

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt N	Ά		
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
Sample temperature at time of receipt N	Ά		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.203 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	6150 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.003 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		2.63 mg/L	
Phosphorus - Filterable Reactive as P T0	• •		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.014 mg/L	
Phosphorus - Total T0109-44(ADEL)			08/10/2019
Phosphorus - Total	0.005	0.330 mg/L	
Silica - Reactive T0111-01(ADEL)			30/09/2019
Silica - Reactive	0.05	15.8 mg/L	
TKN as N T0112-01(ADEL)			08/10/2019
TKN as Nitrogen	0.05	2.63 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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04/10/2019

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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

San	ıple	tempe	rature	at time	of re	eceipt NA
	_					

Total Organic Carbon T0158-07(ADEL)

Dissolved Organic Carbon T0158-07(ADEL)

Dissolved Organic Carbon 1 18.3 mg/L

Total Organic Carbon 1 28.9 mg/L

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt NA

Campio tomporataro at amo or roccipt in t	
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01	I(ADEL) 27/09/2019

Alkalinity as Calcium Carbonate 359 mg/L
Bicarbonate 429 mg/L
Carbonate 4 mg/L
Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 9910 μ S/cm Total Dissolved Solids (by EC) 1 5760 μ G/cm

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

pH 8.3 pH units
Temperature at which pH is measured 22.8 °C

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

Turbidity 0.1 60 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

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
 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

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt N	'A		
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
Sample temperature at time of receipt N	'A		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.017 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	40100 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.009 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		4.92 mg/L	
Phosphorus - Filterable Reactive as P T0	108-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.005 mg/L	
Phosphorus - Total T0109-44(ADEL)			30/09/2019
Phosphorus - Total	0.005	0.218 mg/L	
Silica - Reactive T0111-01(ADEL)			30/09/2019
Silica - Reactive	0.05	2.40 mg/L	
TKN as N T0112-01(ADEL)			30/09/2019
TKN as Nitrogen	0.05	4.91 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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04/10/2019

04/10/2019

27/09/2019

27/09/2019

27/09/2019

30/09/2019

04/10/2019

04/10/2019

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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

receipt NA

Dissolved Organic Carbon T0158-07(ADEL)

Dissolved Organic Carbon 1 20.9 mg/L

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 29.7 mg/L

Inorganic Chemistry - Physical LOR Result Test Start Date

0 mg/L

Sample temperature at time of receipt NA

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

Alkalinity as Calcium Carbonate 213 $\,$ mg/L Bicarbonate 260 $\,$ mg/L $\,$ Carbonate 0 $\,$ mg/L

Hydroxide

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 98900 µS/cm

Total Dissolved Solids (by EC) 1 83900 mg/L

pH T0010-01(ADEL)pH 8.2 pH units

Temperature at which pH is measured 8.2 pH units 22.9 °C

Turbidity T0018-01(ADEL)

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)

Suspended Solids 1.0 30 mg/L

Volatile Suspended Solids T0160-01(ADEL)

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

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt N	IA		_
Chlorophyll a & b T0380-02(ADEL)			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)	
Chlorophyll a & Phaeophytin a T0380-02	(ADEL)		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
Sample temperature at time of receipt N	IA		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.011 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	38000 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.009 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		4.66 mg/L	
Phosphorus - Filterable Reactive as P T0	108-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L	
Phosphorus - Total T0109-44(ADEL)			30/09/2019
Phosphorus - Total	0.005	0.143 mg/L	
Silica - Reactive T0111-01(ADEL)			03/10/2019
Silica - Reactive	0.05	5.16 mg/L	
TKN as N T0112-01(ADEL)			30/09/2019
TKN as Nitrogen	0.05	4.65 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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30/09/2019

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04/10/2019

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Analytical Results

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

Status Endorsed

Customer Collected Collection Type

Sample temperature at time of receipt NA
Dissolved Organic Carbon T0158-07(ADEL)

Dissolved Organic Carbon 1 19.9 mg/L

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 28.6 mg/L

Inorganic Chemistry - Physical LOR Result **Test Start Date**

Sample temperature at time of receipt NA

Alkalinity Carbonato	Bicarbonate and Hydroxide T0101-01(ADEL)	
Alkaliniiv Carbonale	Dicarbonale and Evoroxide Tutut-Ut(ADEL)	

Alkalinity as Calcium Carbonate 227 mg/L

Bicarbonate 277 mg/L Carbonate 0 mg/L

Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 95300 µS/cm Total Dissolved Solids (by EC) 1 79800 mg/L

pH T0010-01(ADEL)

рΗ 8.2 pH units

Temperature at which pH is measured 22.8 °C

Turbidity T0018-01(ADEL)

Turbidity 0.1 18 NTU

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

Sample temperature at time of receipt NA

Suspended Solids T0160-01(ADEL)

Suspended Solids 1.0 40 mg/L

Volatile Suspended Solids T0160-01(ADEL)

Fixed Solids 1 2 mg/L

Volatile Suspended Solids 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

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt N	IA .		
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
Sample temperature at time of receipt N	IA .		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.074 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	4370 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.036 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		1.26 mg/L	
Phosphorus - Filterable Reactive as P TO	108-01(ADEL)	· ·	27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.007 mg/L	
Phosphorus - Total T0109-44(ADEL)		g	30/09/2019
Phosphorus - Total	0.005	0.052 mg/L	
•	0.000	0.002 mg/L	30/09/2019
Silica - Reactive T0111-01(ADEL) Silica - Reactive	0.05	C 04//	00/00/2010
	0.00	6.81 mg/L	30/09/2019
TKN as N T0112-01(ADEL)	0.05		30/09/2019
TKN as Nitrogen	0.05	1.22 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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30/09/2019

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Analytical Results

300711-Tilley Swamp Drain U/S Morella **Sampling Point**

25/09/2019 9:10:00AM Sampled Date 26/09/2019 10:29:40AM Sample Received Date 14/10/2019 9:25:29AM Sample Analysis Completed 2019-005-9292

Sample ID **Status** Endorsed

Customer Collected Collection Type

San	ıple	tempe	rature	at time	of re	ceipt NA
	_					

04/10/2019 **Dissolved Organic Carbon T0158-07(ADEL)** Dissolved Organic Carbon 1 10.2 mg/L

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 10.6 mg/L

Inorganic Chemistry - Physical LOR Result **Test Start Date**

Sample temperature at time of receipt NA

	<u>•</u>	
Alkalinity Carbonate	Bicarbonate and Hydroxide T0101-01(ADEL)	27/09/2019

Alkalinity as Calcium Carbonate 313 mg/L Bicarbonate 328 mg/L Carbonate 26 mg/L Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 12800 µS/cm Total Dissolved Solids (by EC) 1 7550 mg/L

pH T0010-01(ADEL)

рΗ 8.7 pH units Temperature at which pH is measured 22.8 °C

Turbidity T0018-01(ADEL)

Turbidity 0.1 2.5 NTU

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

Suspended Solids T0160-01(ADEL)

02/10/2019 Suspended Solids 1.0 16 mg/L

Volatile Suspended Solids T0160-01(ADEL)

Sample temperature at time of receipt NA

02/10/2019 Fixed Solids 1

10 mg/L Volatile Suspended Solids 6 mg/L

> No.1115 Chemical and **Biological Testing**

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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
Sample temperature at time of receipt N	IA		
Chlorophyll a & b T0380-02(ADEL)			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)	
Chlorophyll a & Phaeophytin a T0380-02	(ADEL)	i nacopnyuno)	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
Sample temperature at time of receipt N	IA		20/40/2040
Ammonia as N T0100-01(ADEL)	0.005		09/10/2019
Ammonia as N	0.005	<0.005 mg/L	00/40/0040
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	38300 mg/L	07/00/0040
Nitrate + Nitrite as N T0161-01(ADEL)	0.000		27/09/2019
Nitrate + Nitrite as N	0.003	0.007 mg/L	00/00/0040
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		3.80 mg/L	07/00/0040
Phosphorus - Filterable Reactive as P TO	• •		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.006 mg/L	00/00/0040
Phosphorus - Total T0109-44(ADEL)	0.005		30/09/2019
Phosphorus - Total	0.005	0.178 mg/L	00/00/0040
Silica - Reactive T0111-01(ADEL)			30/09/2019
Silica - Reactive	0.05	1.11 mg/L	00/00/00/0
TKN as N T0112-01(ADEL)			30/09/2019
TKN as Nitrogen	0.05	3.79 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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30/09/2019

04/10/2019

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Analy	tical/	Results
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 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

Sample temperature	e at time of	receipt NA
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Dissolved Organic Carbon T0158-07(ADEL)

Dissolved Organic Carbon 1 20.3 mg/L

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 27.6 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)

Alkalinity as Calcium Carbonate 223 mg/L
Bicarbonate 272 mg/L
Carbonate 0 mg/L
Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 92700 μ S/cm Total Dissolved Solids (by EC) 1 76900 μ G/cm

pH T0010-01(ADEL)

pH 8.2 pH units Temperature at which pH is measured 22.8 $^{\circ}$ C

Turbidity T0018-01(ADEL)

Turbidity 0.1 21 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
 26 mg/L

Volatile Suspended Solids T0160-01(ADEL)

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

25/09/2019 9:35:00AM **Sampled Date** 26/09/2019 10:28:32AM **Sample Received Date** 14/10/2019 9:25:27AM Sample Analysis Completed *2019-005-9295 Sample ID Endorsed Status

Customer Collected Collection Type

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt N	IA		
Chlorophyll a & b T0380-02(ADEL)			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)	
Chlorophyll a & Phaeophytin a T0380-02	(ADEL)	, , ,	26/09/2019
Chlorophyll a	0.1	1.24 μg/L	
Phaeophytin a	0.1	0.60 µg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt N	IA		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.123 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	4370 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.007 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		2.24 mg/L	
Phosphorus - Filterable Reactive as P T0	108-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.012 mg/L	
Phosphorus - Total T0109-44(ADEL)			30/09/2019
Phosphorus - Total	0.005	0.045 mg/L	
Silica - Reactive T0111-01(ADEL)			30/09/2019
Silica - Reactive	0.05	7.71 mg/L	
TKN as N T0112-01(ADEL)			08/10/2019
TKN as Nitrogen	0.05	2.23 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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04/10/2019

30/09/2019

02/10/2019

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Analytical Results

300712-Tilley Swamp Watercourse Outlet Channel **Sampling Point**

25/09/2019 9:35:00AM Sampled Date 26/09/2019 10:28:32AM Sample Received Date 14/10/2019 9:25:27AM Sample Analysis Completed *2019-005-9295 Sample ID

Status Endorsed

Customer Collected Collection Type

Sample temperature at time of receip	ot NA
Dissolved Organia Carbon T0159 07/	ADEL \

04/10/2019 Dissolved Organic Carbon T0158-07(ADEL) Dissolved Organic Carbon 1 28.4 mg/L

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 30.1 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 427 mg/L Bicarbonate 514 mg/L Carbonate 4 mg/L Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 9300 µS/cm Total Dissolved Solids (by EC) 1 5390 mg/L

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

рΗ 8.3 pH units Temperature at which pH is measured 22.8 °C

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

Turbidity 0.1 3.5 NTU

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

Sample temperature at time of receipt NA

Suspended Solids T0160-01(ADEL) Suspended Solids 1.0 12 mg/L

02/10/2019 Volatile Suspended Solids T0160-01(ADEL)

Fixed Solids 1 7 mg/L Volatile Suspended Solids 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

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt N	IA		
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 (
Chlorophyll a & Phaeophytin a T0380-02((ADEL)	Phaeophytins)	26/09/2019
Chlorophyll a & Phaeophythi a 10360-02((ADEL) 0.1	26.7	20/00/2013
Phaeophytin a	0.1	36.7 μg/L 6.65 μg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt N	IA		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	<0.005 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	35100 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.004 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		4.24 mg/L	
Phosphorus - Filterable Reactive as P T0	108-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L	
Phosphorus - Total T0109-44(ADEL)			30/09/2019
Phosphorus - Total	0.005	0.260 mg/L	
Silica - Reactive T0111-01(ADEL)			30/09/2019
Silica - Reactive	0.05	0.65 mg/L	
TKN as N T0112-01(ADEL)			30/09/2019
TKN as Nitrogen	0.05	4.24 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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04/10/2019

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27/09/2019

30/09/2019

02/10/2019

02/10/2019

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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

 Sample ID
 2019-005-92

 Status
 Endorsed

Collection Type Customer Collected

Sample temperature at time of receipt NA
Dissolved Organic Carbon T0158-07(ADEL)

Dissolved Organic Carbon 1 19.3 mg/L

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 25.6 mg/L

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt NA

|--|

Alkalinity as Calcium Carbonate 214 $\,$ mg/L Bicarbonate 261 $\,$ mg/L Carbonate 0 $\,$ mg/L Hydroxide 0 $\,$ mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 91400 μ S/cm Total Dissolved Solids (by EC) 1 75500 mg/L

pH T0010-01(ADEL)

pH 8.2 pH units Temperature at which pH is measured 22.8 $^{\circ}$ C

Turbidity T0018-01(ADEL)

Turbidity 0.1 16 NTU

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt NA

Suspended Solids T0160-01(ADEL)
Suspended Solids 1.0 37 mg/L

Volatile Suspended Solids T0160-01(ADEL)

 Fixed Solids
 1
 7 mg/L

 Volatile Suspended Solids
 1
 30 mg/L

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Testing

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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
Sample temperature at time of receipt N	A		_
Chlorophyll a & b T0380-02(ADEL)			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)	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)	. , ,	26/09/2019
Chlorophyll a	0.1	1.69 µg/L	
Phaeophytin a	0.1	0.59 μg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt N.	<u></u>		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.133 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	4810 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.552 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		1.29 mg/L	
Phosphorus - Filterable Reactive as P T0	108-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.018 mg/L	
Phosphorus - Total T0109-44(ADEL)			30/09/2019
Phosphorus - Total	0.005	0.025 mg/L	
Silica - Reactive T0111-01(ADEL)			30/09/2019
Silica - Reactive	0.05	8.03 mg/L	
TKN as N T0112-01(ADEL)			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

Sample temperature at time of receipt NA
Dissolved Organic Carbon T0158-07(ADEL)

Total Organic Carbon T0158-07(ADEL)

04/10/2019

Dissolved Organic Carbon 1 7.0 mg/L

Total Organic Carbon 1 7.1 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

04/10/2019

Alkalinity as Calcium Carbonate	404 mg/L
Bicarbonate	487 mg/L
Carbonate	3 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

30/09/2019

Conductivity 2 13700 μ S/cm Total Dissolved Solids (by EC) 1 8120 μ G/cm

pH T0010-01(ADEL)

27/09/2019

30/09/2019

02/10/2019

02/10/2019

pH 8.3 pH units Temperature at which pH is measured 22.8 $^{\circ}$ C

Turbidity T0018-01(ADEL)

Turbidity 0.1 12 NTU

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt NA
Suspended Solids T0160-01(ADEL)

Suspended Solids 1.0 24 mg/L Volatile Suspended Solids T0160-01(ADEL)

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
Sample temperature at time of receipt N	<i>IA</i>		
Chlorophyll a & b T0380-02(ADEL)			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)	
Chlorophyll a & Phaeophytin a T0380-02	(ADEL)		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
Sample temperature at time of receipt N	IA		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	<0.005 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	37700 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	<0.003 mg/L	
Nitrogen - Total TMZ-M06(ADEL)		Č	26/09/2019
Nitrogen - Total		3.87 mg/L	
Phosphorus - Filterable Reactive as P T0	108-01/ADEL)	0.07 mg/L	27/09/2019
Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L	
Phosphorus - Total T0109-44(ADEL)		10.000 Hig/E	30/09/2019
Phosphorus - Total ToTos-44(ADEE)	0.005	0.171 mg/L	
•	0.000	0.171 Hig/L	03/10/2019
Silica - Reactive T0111-01(ADEL) Silica - Reactive	0.05	4.02	00/10/2010
	0.03	4.03 mg/L	30/09/2019
TKN as N T0112-01(ADEL)	0.05	0.07	30/09/2019
TKN as Nitrogen	0.05	3.87 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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02/10/2019

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Analytical Results

31513-EPA - Parnka Point Boat Ramp **Sampling Point**

25/09/2019 11:15:00AM Sampled Date 26/09/2019 10:29:23AM Sample Received Date 14/10/2019 9:25:28AM Sample Analysis Completed 2019-005-9290 Sample ID

Status Endorsed

Customer Collected Collection Type

San	ıple	tempe	rature	at time	of re	ceipt NA

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

Dissolved Organic Carbon 1 18.6 mg/L

Total Organic Carbon T0158-07(ADEL) Total Organic Carbon 1 23.8 mg/L

Inorganic Chemistry - Physical LOR Result **Test Start Date**

Sample temperature at time of receipt NA

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

Alkalinity as Calcium Carbonate 216 mg/L Bicarbonate 263 mg/L Carbonate 0 mg/L Hydroxide 0 mg/L

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

Conductivity 89600 µS/cm Total Dissolved Solids (by EC) 1 73500 mg/L

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

рΗ 8.2 pH units Temperature at which pH is measured 22.8 °C

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

0.1

Turbidity 15 NTU

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

Suspended Solids T0160-01(ADEL)

02/10/2019 Suspended Solids 1.0 37 mg/L

Volatile Suspended Solids T0160-01(ADEL)

Sample temperature at time of receipt NA

Fixed Solids 1 10 mg/L

Volatile Suspended Solids 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
Sample temperature at time of receipt N	IA		_
Chlorophyll a & b T0380-02(ADEL)			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)	
Chlorophyll a & Phaeophytin a T0380-02	(ADEL)	i nacophytha)	26/09/2019
Chlorophyll a	0.1	21.1 μg/L	
Phaeophytin a	0.1	4.88 μg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt N			
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.030 mg/L	
Chloride T0104-02(ADEL)		·	03/10/2019
Chloride	4.0	34200 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.003 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		3.26 mg/L	
Phosphorus - Filterable Reactive as P TO	108-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.005 mg/L	
Phosphorus - Total T0109-44(ADEL)			30/09/2019
Phosphorus - Total	0.005	0.209 mg/L	
Silica - Reactive T0111-01(ADEL)			30/09/2019
Silica - Reactive	0.05	0.24 mg/L	
TKN as N T0112-01(ADEL)			30/09/2019
TKN as Nitrogen	0.05	3.26 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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04/10/2019

04/10/2019

27/09/2019

30/09/2019

27/09/2019

30/09/2019

04/10/2019

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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)

Dissolved Organic Carbon 1 17.5 mg/L

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 20.8 mg/L

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt NA

Alkalinity Carbanata	Bicarbonate and Hydroxide T0101-01(ADEL)	
Alkalillity Carbonate	DICARDONALE AND INVOICATION TO IT IN ITABLE	

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)

Conductivity 2 81500 μ S/cm Total Dissolved Solids (by EC) 1 64900 μ G/cm

pH T0010-01(ADEL)

pH 8.3 pH units Temperature at which pH is measured 22.9 $^{\circ}$ C

Turbidity T0018-01(ADEL)

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)

 Fixed Solids
 1
 <1 mg/L</td>

 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
Sample temperature at time of receipt N	IA		
Chlorophyll a & b T0380-02(ADEL)			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 (
Chlorophyll a & Phaeophytin a T0380-02	(ADEL)	Phaeophytins)	26/09/2019
Chlorophyll a	0.1	1.75 µg/L	
Phaeophytin a	0.1	1.19 µg/L	
In a un a unia Chamaintura Naturia unta	LOD	Parvill	To at Otant Date
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt N Ammonia as N T0100-01(ADEL) Ammonia as N	0.005	0.021 mg/L	09/10/2019
Chloride T0104-02(ADEL)		0.021 Hig/E	03/10/2019
Chloride	4.0	16000 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.040 mg/L	
Nitrogen - Total TMZ-M06(ADEL)		0.0.10 mg.2	26/09/2019
Nitrogen - Total		4.31 mg/L	
Phosphorus - Filterable Reactive as P TO	0108-01(ADFL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.012 mg/L	
Phosphorus - Total T0109-44(ADEL)		3	30/09/2019
Phosphorus - Total	0.005	0.072 mg/L	
Silica - Reactive T0111-01(ADEL)		3	30/09/2019
Silica - Reactive	0.05	0.23 mg/L	
TKN as N T0112-01(ADEL)		5	30/09/2019
TKN as Nitrogen	0.05	4.27 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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04/10/2019

04/10/2019

27/09/2019

30/09/2019

27/09/2019

30/09/2019

02/10/2019

02/10/2019

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Analyt	ical	Results	S
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 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

Sample temperature at time of receipt NA
Dissolved Organic Carbon T0158-07(ADEL)

Dissolved Organic Carbon 1 10.3 mg/L

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 11.0 mg/L

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt NA

Alkalinity Carbonato R	icarbonate and Hydroxide T0101-01(ADEL)	

Alkalinity as Calcium Carbonate 148 mg/L
Bicarbonate 181 mg/L

 Carbonate
 0 mg/L

 Hydroxide
 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 44900 μ S/cm Total Dissolved Solids (by EC) 1 30800 μ G/L

pH T0010-01(ADEL)

pH 8.0 pH units

Temperature at which pH is measured 22.9 °C

Turbidity T0018-01(ADEL)

Turbidity 0.1 3.0 NTU

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt NA

Suspended Solids T0160-01(ADEL)
Suspended Solids 1.0 4 mg/L

Volatile Suspended Solids T0160-01(ADEL)

Fixed Solids 1 2 mg/L Volatile Suspended Solids 1 2 mg/L



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Analytical Results

 Sampling Point
 353180-EPA - Tauwitchere

 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
Sample temperature at time of receipt N	IA		_
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
Sample temperature at time of receipt N	IA		
Ammonia as N T0100-01(ADEL)			09/10/2019
Ammonia as N	0.005	0.113 mg/L	
Chloride T0104-02(ADEL)			03/10/2019
Chloride	4.0	4150 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/09/2019
Nitrate + Nitrite as N	0.003	0.034 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			26/09/2019
Nitrogen - Total		1.51 mg/L	
Phosphorus - Filterable Reactive as P TO	108-01(ADEL)		27/09/2019
Phosphorus - Filterable Reactive as P	0.003	0.035 mg/L	
Phosphorus - Total T0109-44(ADEL)			30/09/2019
Phosphorus - Total	0.005	0.183 mg/L	
Silica - Reactive T0111-01(ADEL)			30/09/2019
Silica - Reactive	0.05	0.30 mg/L	
TKN as N T0112-01(ADEL)			30/09/2019
TKN as Nitrogen	0.05	1.48 mg/L	
Organic Chemistry	LOR	Result	Test Start Date



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04/10/2019

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27/09/2019

27/09/2019

27/09/2019

30/09/2019

04/10/2019

04/10/2019

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Analytical Results

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

Status Endorsed

Customer Collected Collection Type

Sample temperature at time of receipt NA
Dissolved Organic Carbon T0158-07(ADEL)

Dissolved Organic Carbon 1 8.7 mg/L

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 11.2 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)

Alkalinity as Calcium Carbonate 111 mg/L Bicarbonate 136 mg/L Carbonate 0 mg/L Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 9010 µS/cm Total Dissolved Solids (by EC) 1 5210 mg/L

pH T0010-01(ADEL)

рΗ 8.2 pH units Temperature at which pH is measured 22.8 °C

Turbidity T0018-01(ADEL)

Turbidity 0.1 21 NTU

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

Sample temperature at time of receipt NA Suspended Solids T0160-01(ADEL)

Suspended Solids 1.0 35 mg/L

Volatile Suspended Solids T0160-01(ADEL)

Fixed Solids 1 16 mg/L

Volatile Suspended Solids 19 mg/L



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Thuy Diep - Technical Officer Chemistry

David Evans - Technical Officer Chemistry

Kerrie Jooste - Supervisor Nutrients and Waste

Aji John - Technical Officer Chemistry

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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 (Ol 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



- 1. The last figure of the result value is a significant figure
- # determination of the component is not covered by NATA Accreditation.
 * notice in the component is not covered by NATA Accreditation.
 * notice in the component is not covered by NATA Accreditation.
- 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 is available at https://www.awqc.com.au/our-services/analytical-services/r
- 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.