



DEW - Department of Environment and Water
ATTN: Claire Sims
81-95 Waymouth Street

SA 5000 AUSTRALIA

17/02/2023

Dear Claire

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2022-CSR-6

Account: 143419

Project:

AWQC-178337 DEW - Healthy Coorong Healthy Basin - Non Routine Event 4- 22/23

This report has also been sent to: Tim Branford

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

Yours sincerely,

Scott Kraft
Customer Services Officer
Scott.Kraft@sawater.com.au
+61 8 7424 1250





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Report Information

Project Name	AWQC-178337
Customer	DEW - Department of Environment and Water
CSR_ID	143419-2022-CSR-6

Analytical Results

Sampling Point	351213-EPA - Murray Mouth
Sampled Date	19/01/2023 12:10:00PM
Sample Received Date	20/01/2023 3:43:02PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8606
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Algal Identification T0393(ADEL)			
Other Organisms		1000 cells/mL	
BLUE GREEN ALGAE			
Dolichospermum planctonicum		60 cells/mL	
Microcystis wesenbergii		396 cells/mL	
Planktolyngbya		7070 cells/mL	
Cyanodictyon		17000 cells/mL	
Limnothrix		13300 cells/mL	
DIATOMS			
Aulacoseira		166 cells/mL	
Gyrosigma		26 cells/mL	
Nitzschia		50 cells/mL	
Staurosira		170 cells/mL	
Fragilaria		700 cells/mL	
GREEN ALGAE			
Planctonema		4710 cells/mL	
Gonatozygon		98 cells/mL	
Closterium		20 cells/mL	
Crucigenia		950 cells/mL	
Monoraphidium		100 cells/mL	
Pediastrum		50 cells/mL	
Scenedesmus		1400 cells/mL	
Tetrastrum		750 cells/mL	
Dictyosphaerium		580 cells/mL	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	351213-EPA - Murray Mouth
Sampled Date	19/01/2023 12:10:00PM
Sample Received Date	20/01/2023 3:43:02PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8606
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

19/01/2023

BLUE GREEN ALGAE

Dolichospermum planctonicum	0.03 mm3/L
Microcystis wesenbergii	0.04 mm3/L
Planktolyngbya	0.04 mm3/L
Cyanodictyon	<0.01 mm3/L
Limnithrix	0.16 mm3/L

DIATOMS

Aulacoseira	0.47 mm3/L
Gyrosigma	0.06 mm3/L
Nitzschia	0.07 mm3/L
Staurosira	0.03 mm3/L
Fragilaria	0.45 mm3/L

GREEN ALGAE

Gonatozygon	0.40 mm3/L
Closterium	0.11 mm3/L
Crucigenia	0.03 mm3/L
Monoraphidium	0.09 mm3/L
Pediastrum	0.06 mm3/L
Scenedesmus	0.35 mm3/L
Dictyosphaerium	0.01 mm3/L

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.27 mm3/L
# Total Diatom Biovolume	1.08 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	351213-EPA - Murray Mouth
Sampled Date	19/01/2023 12:10:00PM
Sample Received Date	20/01/2023 3:43:02PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8606
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	47600 cells/mL
Blue Green Algae - Total	37800 cells/mL
Diatoms - Total	1110 cells/mL
Geosmin-MIB producing BGA - Total	60 cells/mL
Green Algae - Total	8660 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	25.8 µg/L
Phaeophytin a	0.1	25.3 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	9 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	60 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	43.4 µg/L	
# Nitrate + Nitrite as NO3	2.3	192 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		1.90 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	79.235 µg/L	
Phosphorus-Filterable Reactive as P	0.5	26.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.379 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	0.31 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

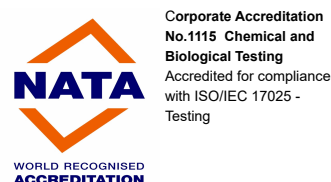
Sampling Point	351213-EPA - Murray Mouth
Sampled Date	19/01/2023 12:10:00PM
Sample Received Date	20/01/2023 3:43:02PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8606
Status	Endorsed
Collection Type	Customer Collected

TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	1.86 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	15.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	26.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			24/01/2023
Alkalinity as Calcium Carbonate		98 mg/L	
Bicarbonate		120 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			24/01/2023
Conductivity	2	404 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	223 mg/L	
pH T0010-01(ADEL)			24/01/2023
pH		7.9 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	79 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	351213-EPA - Murray Mouth
Sampled Date	19/01/2023 12:10:00PM
Sample Received Date	20/01/2023 3:43:02PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8606
Status	Endorsed
Collection Type	Customer Collected

Suspended Solids T0160-01(ADEL)

24/01/2023

Suspended Solids	1.0	111 mg/L
------------------	-----	----------





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	11504-DEW - Mundoo Upstream
Sampled Date	19/01/2023 12:40:00PM
Sample Received Date	20/01/2023 3:57:09PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8603
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt NA

Algal Identification T0393(ADEL)

Other Organisms 2300 cells/mL

BLUE GREEN ALGAE

Dolichospermum (coiled) 30 cells/mL
Woronichinia 240 cells/mL
Cuspidothrix 44 cells/mL
Planktolyngbya 3050 cells/mL
Cyanogranis 6050 cells/mL
Cyanodictyon 470 cells/mL

DIATOMS

Aulacoseira 673 cells/mL
Gyrosigma 6 cells/mL
Cyclotella 1050 cells/mL
Nitzschia 120 cells/mL
Staurosira 333 cells/mL
Fragilaria 1150 cells/mL

GREEN ALGAE

Planctonema 1290 cells/mL
Gonatozygon 340 cells/mL
Franceia 40 cells/mL
Dictyosphaerium 1700 cells/mL
Monoraphidium 200 cells/mL
Tetrastrum 1400 cells/mL

Sample temperature at time of receipt NA

Algal Biovolume T0393(ADEL)

19/01/2023

BLUE GREEN ALGAE

Dolichospermum (coiled) <0.01 mm³/L
Cuspidothrix <0.01 mm³/L
Planktolyngbya 0.02 mm³/L



WORLD RECOGNISED
ACCREDITATION

Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	11504-DEW - Mundoo Upstream
Sampled Date	19/01/2023 12:40:00PM
Sample Received Date	20/01/2023 3:57:09PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8603
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/01/2023

Cyanogranis	<0.01 mm3/L
Cyanodictyon	<0.01 mm3/L

DIATOMS

Aulacoseira	1.92 mm3/L
Gyrosigma	0.01 mm3/L
Cyclotella	0.54 mm3/L
Nitzschia	0.17 mm3/L
Staurosira	0.06 mm3/L
Fragilaria	0.74 mm3/L

GREEN ALGAE

Gonatozygon	1.40 mm3/L
Dictyosphaerium	0.03 mm3/L
Monoraphidium	0.18 mm3/L

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	Not Calculated mm3/L
# Total Diatom Biovolume	3.44 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt NA

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	18200 cells/mL
Blue Green Algae - Total	9880 cells/mL
Diatoms - Total	3330 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	4970 cells/mL
Toxin producing BGA - Total	0 cells/mL



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	11504-DEW - Mundoo Upstream
Sampled Date	19/01/2023 12:40:00PM
Sample Received Date	20/01/2023 3:57:09PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8603
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt NA

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	32.6 µg/L
Phaeophytin a	0.1	24.8 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	57 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	43 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	27.3 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	121 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		2.00 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO ₄	1.5	65.78 µg/L	
Phosphorus-Filterable Reactive as P	0.5	22.0 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.341 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	0.47 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	1.97 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	11504-DEW - Mundoo Upstream
Sampled Date	19/01/2023 12:40:00PM
Sample Received Date	20/01/2023 3:57:09PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8603
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	16.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	19.9 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)			23/01/2023
Alkalinity as Calcium Carbonate		97 mg/L	
Bicarbonate		118 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	319 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	176 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		7.9 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	66 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	62 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	11505-DEW - Mundoo Downstream
Sampled Date	19/01/2023 12:40:00PM
Sample Received Date	20/01/2023 3:57:09PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8604
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt NA

Algal Identification T0393(ADEL)

Other Organisms	500 cells/mL
BLUE GREEN ALGAE	
Dolichospermum (coiled)	178 cells/mL
Romeria	36 cells/mL
Woronichinia	126 cells/mL
DIATOMS	
Cyclotella	600 cells/mL
Aulacoseira	700 cells/mL
Nitzschia	550 cells/mL
GREEN ALGAE	
Planctonema	1650 cells/mL
Gonatozygon	750 cells/mL
Scenedesmus	600 cells/mL
Crucigenia	600 cells/mL
Dictyosphaerium	1100 cells/mL

Sample temperature at time of receipt NA

Algal Biovolume T0393(ADEL)

19/01/2023

BLUE GREEN ALGAE	
Dolichospermum (coiled)	0.05 mm3/L
Romeria	<0.01 mm3/L
DIATOMS	
Cyclotella	0.31 mm3/L
Aulacoseira	2.00 mm3/L
Nitzschia	0.76 mm3/L
GREEN ALGAE	
Gonatozygon	3.08 mm3/L
Scenedesmus	0.15 mm3/L
Crucigenia	0.02 mm3/L



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	11505-DEW - Mundoo Downstream
Sampled Date	19/01/2023 12:40:00PM
Sample Received Date	20/01/2023 3:57:09PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8604
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/01/2023

Dictyosphaerium	0.02 mm3/L
# Algal Biovolume Comment	Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.
# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	Not Calculated mm3/L
# Total Diatom Biovolume	3.07 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt NA

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	6890 cells/mL
Blue Green Algae - Total	340 cells/mL
Diatoms - Total	1850 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	4700 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt NA

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	27.5 µg/L
Phaeophytin a	0.1	20.2 µg/L

Inorganic Chemistry - Nutrients

LOR

Result

Test Start Date

Sample temperature at time of receipt NA

Ammonia as N (ADEL)

06/02/2023

# Ammonia as N	1	7 µg/L
----------------	---	--------

Chloride T0104-02(ADEL)

06/02/2023



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	11505-DEW - Mundoo Downstream
Sampled Date	19/01/2023 12:40:00PM
Sample Received Date	20/01/2023 3:57:09PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8604
Status	Endorsed
Collection Type	Customer Collected

Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	32 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	35.9 µg/L	
# Nitrate + Nitrite as NO3	2.3	159 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		2.00 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	84.318 µg/L	
Phosphorus-Filterable Reactive as P	0.5	28.2 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.310 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	0.49 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	1.96 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	15.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	20.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		96 mg/L	
Bicarbonate		117 mg/L	
Carbonate		0 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	11505-DEW - Mundoo Downstream
Sampled Date	19/01/2023 12:40:00PM
Sample Received Date	20/01/2023 3:57:09PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8604
Status	Endorsed
Collection Type	Customer Collected

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)	23/01/2023
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	304	µS/cm
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	168	mg/L

pH T0010-01(ADEL)	23/01/2023
pH	8.0 pH units
Temperature at which pH is measured	23.0 °C

Turbidity T0018-01(ADEL)			23/01/2023
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)			24/01/2023
Suspended Solids	1.0	56 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	353179-EPA - Tauwichee Barrage Upstream
Sampled Date	19/01/2023 1:20:00PM
Sample Received Date	20/01/2023 3:43:33PM
Sample Analysis Completed	10/02/2023 10:43:06AM
Sample ID	*2022-010-8609
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

Pseudodidymocystis	360 cells/mL
Other Organisms	1000 cells/mL
BLUE GREEN ALGAE	
Aphanizomenon	7260 cells/mL
Woronichinia	425 cells/mL
Dolichospermum (coiled)	324 cells/mL
Aphanocapsa	13300 cells/mL
Cyanodictyon	13200 cells/mL
Dolichospermum planctonicum	112 cells/mL
Dolichospermum circinale	74 cells/mL
DIATOMS	
Fragilaria	570 cells/mL
Cyclotella	330 cells/mL
GREEN ALGAE	
Scenedesmus	1140 cells/mL
Dictyosphaerium	3440 cells/mL
Tetrastrum	630 cells/mL
Crucigenia	990 cells/mL
Pediastrum	510 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

19/01/2023

Pseudodidymocystis	0.02 mm3/L
BLUE GREEN ALGAE	
Aphanizomenon	0.36 mm3/L
Dolichospermum (coiled)	0.08 mm3/L
Aphanocapsa	<0.01 mm3/L
Cyanodictyon	<0.01 mm3/L
Dolichospermum planctonicum	0.05 mm3/L



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	353179-EPA - Tauwichee Barrage Upstream
Sampled Date	19/01/2023 1:20:00PM
Sample Received Date	20/01/2023 3:43:33PM
Sample Analysis Completed	10/02/2023 10:43:06AM
Sample ID	*2022-010-8609
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/01/2023

Dolichospermum circinale 0.02 mm3/L

DIATOMS

Fragilaria 0.36 mm3/L

Cyclotella 0.17 mm3/L

GREEN ALGAE

Scenedesmus 0.28 mm3/L

Dictyosphaerium 0.07 mm3/L

Crucigenia 0.03 mm3/L

Pediastrum 0.61 mm3/L

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

Total Algae Biovolume Not Calculated mm3/L

Total Blue_Green Algae Biovolume Not Calculated mm3/L

Total Diatom Biovolume 0.53 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.02 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total 42300 cells/mL

Blue Green Algae - Total 34700 cells/mL

Diatoms - Total 900 cells/mL

Geosmin-MIB producing BGA - Total 186 cells/mL

Green Algae - Total 6710 cells/mL

Toxin producing BGA - Total 74 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a 0.1 40.5 µg/L



WORLD RECOGNISED
ACCREDITATION

Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	353179-EPA - Tauwichee Barrage Upstream
Sampled Date	19/01/2023 1:20:00PM
Sample Received Date	20/01/2023 3:43:33PM
Sample Analysis Completed	10/02/2023 10:43:06AM
Sample ID	*2022-010-8609
Status	Endorsed
Collection Type	Customer Collected

Chlorophyll a & Phaeophytin a T0380-02(ADEL)	20/01/2023
Phaeophytin a	0.1 22.5 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	51 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	50 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	25.5 µg/L	
# Nitrate + Nitrite as NO3	2.3	113 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		2.06 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	218.868 µg/L	
Phosphorus-Filterable Reactive as P	0.5	73.2 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.338 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	0.20 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	2.03 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	17.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	20.3 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	353179-EPA - Tauwitschere Barrage Upstream
Sampled Date	19/01/2023 1:20:00PM
Sample Received Date	20/01/2023 3:43:33PM
Sample Analysis Completed	10/02/2023 10:43:06AM
Sample ID	*2022-010-8609
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		96 mg/L	
Bicarbonate		118 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	340 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	188 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.0 pH units	
Temperature at which pH is measured		23.1 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	30 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	27 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	353177-EPA - Tauwitschere Barrage DS
Sampled Date	19/01/2023 1:20:00PM
Sample Received Date	20/01/2023 3:43:18PM
Sample Analysis Completed	9/02/2023 8:27:00AM
Sample ID	*2022-010-8610
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

Pseudodidymocystis	160 cells/mL
Other Organisms	700 cells/mL
BLUE GREEN ALGAE	
Aphanizomenon	5060 cells/mL
Planktolyngbya	120 cells/mL
Woronichinia	206 cells/mL
Dolichospermum circinale	356 cells/mL
Dolichospermum planctonicum	326 cells/mL
DIATOMS	
Cyclotella	350 cells/mL
Fragilaria	1030 cells/mL
GREEN ALGAE	
Scenedesmus	540 cells/mL
Oocystis	510 cells/mL
Pediastrum	570 cells/mL
Planctonema	2120 cells/mL
Crucigenia	480 cells/mL
Tetrastrum	260 cells/mL
Dictyosphaerium	570 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

19/01/2023

Pseudodidymocystis	<0.01 mm3/L
BLUE GREEN ALGAE	
Aphanizomenon	0.25 mm3/L
Planktolyngbya	<0.01 mm3/L
Dolichospermum circinale	0.09 mm3/L
Dolichospermum planctonicum	0.14 mm3/L

DIATOMS



WORLD RECOGNISED
ACCREDITATION

Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	353177-EPA - Tauwichee Barrage DS
Sampled Date	19/01/2023 1:20:00PM
Sample Received Date	20/01/2023 3:43:18PM
Sample Analysis Completed	9/02/2023 8:27:00AM
Sample ID	*2022-010-8610
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/01/2023

Cyclotella	0.18 mm3/L
Fragilaria	0.66 mm3/L

GREEN ALGAE

Scenedesmus	0.14 mm3/L
Oocystis	0.15 mm3/L
Pediastrum	0.69 mm3/L
Crucigenia	0.01 mm3/L
Dictyosphaerium	0.01 mm3/L

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	Not Calculated mm3/L
# Total Diatom Biovolume	0.84 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.09 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	12500 cells/mL
Blue Green Algae - Total	6070 cells/mL
Diatoms - Total	1380 cells/mL
Geosmin-MIB producing BGA - Total	682 cells/mL
Green Algae - Total	5050 cells/mL
Toxin producing BGA - Total	356 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	44.2 µg/L
Phaeophytin a	0.1	20.8 µg/L



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	353177-EPA - Tauwitschere Barrage DS
Sampled Date	19/01/2023 1:20:00PM
Sample Received Date	20/01/2023 3:43:18PM
Sample Analysis Completed	9/02/2023 8:27:00AM
Sample ID	*2022-010-8610
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	7 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	65 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	9.7 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	43.0 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		2.04 mg/L	
Phosphorus - Filterable Reactive as P T0108-01(ADEL)			08/02/2023
Phosphorus - Filterable Reactive as P	0.003	0.128 mg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.246 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	0.20 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	2.03 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	17.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	20.5 mg/L	

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



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	353177-EPA - Tauwitschere Barrage DS
Sampled Date	19/01/2023 1:20:00PM
Sample Received Date	20/01/2023 3:43:18PM
Sample Analysis Completed	9/02/2023 8:27:00AM
Sample ID	*2022-010-8610
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 24/01/2023

Alkalinity as Calcium Carbonate	98 mg/L
Bicarbonate	119 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 24/01/2023

Conductivity	2	337 µS/cm
Note		Conductivity measurement is corrected to 25°C
Total Dissolved Solids (by EC)	1	186 mg/L

pH T0010-01(ADEL) 24/01/2023

pH	7.9 pH units
Temperature at which pH is measured	22.6 °C

Turbidity T0018-01(ADEL) 23/01/2023

Turbidity	0.1	34 NTU
-----------	-----	--------

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

Sample temperature at time of receipt 9.2°C

Suspended Solids T0160-01(ADEL) 24/01/2023

Suspended Solids	1.0	41 mg/L
------------------	-----	---------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31522-EPA - Mark Point
Sampled Date	19/01/2023 2:00:00PM
Sample Received Date	20/01/2023 3:41:24PM
Sample Analysis Completed	9/02/2023 2:12:33PM
Sample ID	*2022-010-8605
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

Pseudodidymocystis	60 cells/mL
CRYPTOPHYTES	
Chroomonas	90 cells/mL
Cryptomonas	70 cells/mL
Cryptomonads	10 cells/mL
GREEN ALGAE	
Planctonema	6 cells/mL
Crucigenia	1160 cells/mL
Schroederia	60 cells/mL
Scenedesmus	100 cells/mL
Closterium	30 cells/mL
Tetrastrum	80 cells/mL
Monoraphidium	10 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

19/01/2023

Pseudodidymocystis	<0.01 mm3/L
CRYPTOPHYTES	
Chroomonas	<0.01 mm3/L
Cryptomonas	0.08 mm3/L
Cryptomonads	<0.01 mm3/L
GREEN ALGAE	
Crucigenia	0.03 mm3/L
Schroederia	<0.01 mm3/L
Scenedesmus	0.02 mm3/L
Closterium	0.16 mm3/L
Monoraphidium	<0.01 mm3/L



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31522-EPA - Mark Point
Sampled Date	19/01/2023 2:00:00PM
Sample Received Date	20/01/2023 3:41:24PM
Sample Analysis Completed	9/02/2023 2:12:33PM
Sample ID	*2022-010-8605
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/01/2023

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	0.00 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	1620 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	0 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	1450 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	11.8 µg/L
Phaeophytin a	0.1	9.14 µg/L

Inorganic Chemistry - Nutrients

LOR

Result

Test Start Date

Sample temperature at time of receipt 9.2°C

Ammonia as N (ADEL)

06/02/2023

# Ammonia as N	1	39 µg/L
----------------	---	---------

Chloride T0104-02(ADEL)

06/02/2023

Chloride	4.0	220 mg/L
----------	-----	----------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31522-EPA - Mark Point
Sampled Date	19/01/2023 2:00:00PM
Sample Received Date	20/01/2023 3:41:24PM
Sample Analysis Completed	9/02/2023 2:12:33PM
Sample ID	*2022-010-8605
Status	Endorsed
Collection Type	Customer Collected

Nitrate + Nitrite as N T0161-01(ADEL)			08/02/2023
Nitrate + Nitrite as N	0.003	0.563 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		2.73 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	272.09 µg/L	
Phosphorus-Filterable Reactive as P	0.5	91.0 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.398 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	6.28 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	2.17 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	16.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	23.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			24/01/2023
Alkalinity as Calcium Carbonate		115 mg/L	
Bicarbonate		141 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			24/01/2023
Conductivity	2	1030 µS/cm	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31522-EPA - Mark Point
Sampled Date	19/01/2023 2:00:00PM
Sample Received Date	20/01/2023 3:41:24PM
Sample Analysis Completed	9/02/2023 2:12:33PM
Sample ID	*2022-010-8605
Status	Endorsed
Collection Type	Customer Collected

Conductivity & Total Dissolved Solids T0016-01(ADEL)

24/01/2023

Note	Conductivity measurement is corrected to 25°C
Total Dissolved Solids (by EC)	1 571 mg/L

pH T0010-01(ADEL)

24/01/2023

pH	7.8 pH units
Temperature at which pH is measured	22.6 °C

Turbidity T0018-01(ADEL)

23/01/2023

Turbidity	0.1 93 NTU
-----------	------------

Inorganic Chemistry - Waste Water

LOR

Result

Test Start Date

Sample temperature at time of receipt 9.2°C

Suspended Solids T0160-01(ADEL)

24/01/2023

Suspended Solids	1.0 48 mg/L
------------------	-------------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/01/2023 2:35:00PM
Sample Received Date	20/01/2023 3:41:40PM
Sample Analysis Completed	9/02/2023 2:12:33PM
Sample ID	*2022-010-8592
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Chroomonas	10 cells/mL
Cryptomonas	120 cells/mL

DIATOMS

Navicula	20 cells/mL
Pennate diatoms	10 cells/mL

GREEN ALGAE

Monoraphidium	20 cells/mL
Crucigenia	70 cells/mL
Tetrastrum	40 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

19/01/2023

CRYPTOPHYTES

Chroomonas	<0.01 mm3/L
Cryptomonas	0.13 mm3/L

DIATOMS

Navicula	0.02 mm3/L
----------	------------

GREEN ALGAE

Monoraphidium	0.02 mm3/L
Crucigenia	<0.01 mm3/L

# Algal Biovolume Comment	Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.
# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	Not Calculated mm3/L



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/01/2023 2:35:00PM
Sample Received Date	20/01/2023 3:41:40PM
Sample Analysis Completed	9/02/2023 2:12:33PM
Sample ID	*2022-010-8592
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/01/2023

# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	290 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	30 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	130 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	7.76 µg/L
Phaeophytin a	0.1	2.98 µg/L

Inorganic Chemistry - Nutrients

LOR

Result

Test Start Date

Sample temperature at time of receipt 9.2°C

Ammonia as N (ADEL)

06/02/2023

# Ammonia as N	1	15 µg/L
----------------	---	---------

Chloride T0104-02(ADEL)

06/02/2023

Chloride	4.0	973 mg/L
----------	-----	----------

Nitrate + Nitrite as N T0161-01(ADEL)

08/02/2023

Nitrate + Nitrite as N	0.003	0.237 mg/L
------------------------	-------	------------

Nitrogen - Total TMZ-M06(ADEL)

20/01/2023

Nitrogen - Total		1.32 mg/L
------------------	--	-----------

Phosphorus - Filterable Reactive as P (ADEL)

06/02/2023

# Phosphorus -Filterable Reactive as PO4	1.5	121.992 µg/L
Phosphorus-Filterable Reactive as P	0.5	40.8 µg/L

Phosphorus - Total T0109-44(ADEL)

31/01/2023



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/01/2023 2:35:00PM
Sample Received Date	20/01/2023 3:41:40PM
Sample Analysis Completed	9/02/2023 2:12:33PM
Sample ID	*2022-010-8592
Status	Endorsed
Collection Type	Customer Collected

Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.187 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	5.09 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	1.08 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	15.7 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	18.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		116 mg/L	
Bicarbonate		141 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	3620 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	2040 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.1 pH units	
Temperature at which pH is measured		22.8 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	36 NTU	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



Internet: www.awqc.com.au

Email: awqc@sawater.com.au

FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/01/2023 2:35:00PM
Sample Received Date	20/01/2023 3:41:40PM
Sample Analysis Completed	9/02/2023 2:12:33PM
Sample ID	*2022-010-8592
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	<1 mg/L	



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	53032-EPA - Nooneameena
Sampled Date	19/01/2023 3:15:00PM
Sample Received Date	20/01/2023 3:43:48PM
Sample Analysis Completed	7/02/2023 11:56:41AM
Sample ID	*2022-010-8612
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Cryptomonas	10 cells/mL
-------------	-------------

DIATOMS

Pennate diatoms	10 cells/mL
-----------------	-------------

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

19/01/2023

CRYPTOPHYTES

Cryptomonas	0.01 mm3/L
-------------	------------

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
-------------------------	----------------------

# Total Blue_Green Algae Biovolume	0.00 mm3/L
------------------------------------	------------

# Total Diatom Biovolume	Not Calculated mm3/L
--------------------------	----------------------

# Total Green Algae Biovolume	0.00 mm3/L
-------------------------------	------------

Total Toxic BGA Biovolume	0.00 mm3/L
---------------------------	------------

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	20 cells/mL
---------------	-------------

Blue Green Algae - Total	0 cells/mL
--------------------------	------------

Diatoms - Total	10 cells/mL
-----------------	-------------

Geosmin-MIB producing BGA - Total	0 cells/mL
-----------------------------------	------------

Green Algae - Total	0 cells/mL
---------------------	------------

Toxin producing BGA - Total	0 cells/mL
-----------------------------	------------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	53032-EPA - Nooneameena
Sampled Date	19/01/2023 3:15:00PM
Sample Received Date	20/01/2023 3:43:48PM
Sample Analysis Completed	7/02/2023 11:56:41AM
Sample ID	*2022-010-8612
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	23.4 µg/L
Phaeophytin a	0.1	17.3 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	33 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	5680 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	9.0 µg/L	
# Nitrate + Nitrite as NO3	2.3	39.9 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		0.98 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	11.362 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.8 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.107 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	3.32 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	0.97 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	14.4 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	53032-EPA - Nooneameena
Sampled Date	19/01/2023 3:15:00PM
Sample Received Date	20/01/2023 3:43:48PM
Sample Analysis Completed	7/02/2023 11:56:41AM
Sample ID	*2022-010-8612
Status	Endorsed
Collection Type	Customer Collected

Total Organic Carbon T0158-07(ADEL)		31/01/2023
Total Organic Carbon	1	16.2 mg/L

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		121 mg/L	
Bicarbonate		147 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	17600 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	10600 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.1 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	11 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	20 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31524-EPA - Bonneys
Sampled Date	19/01/2023 3:40:00PM
Sample Received Date	20/01/2023 3:41:55PM
Sample Analysis Completed	10/02/2023 4:49:18PM
Sample ID	*2022-010-8607
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Cryptomonas	40 cells/mL
-------------	-------------

DIATOMS

Cocconeis	80 cells/mL
-----------	-------------

PENNALES	60 cells/mL
----------	-------------

Nitzschia	30 cells/mL
-----------	-------------

GREEN ALGAE

Chlamydomonas	10 cells/mL
---------------	-------------

Microspora	68 cells/mL
------------	-------------

Cladophora	37 cells/mL
------------	-------------

Sirogonium	12 cells/mL
------------	-------------

Organism - Comment	Sirogonium - The identification for this organism is tentative only.
--------------------	--

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

19/01/2023

CRYPTOPHYTES

Cryptomonas	0.04 mm3/L
-------------	------------

DIATOMS

PENNALES	0.02 mm3/L
----------	------------

Nitzschia	0.04 mm3/L
-----------	------------

GREEN ALGAE

Chlamydomonas	<0.01 mm3/L
---------------	-------------

# Algal Biovolume Comment	Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.
---------------------------	--

# Total Algae Biovolume	Not Calculated mm3/L
-------------------------	----------------------



WORLD RECOGNISED
ACCREDITATION

Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31524-EPA - Bonneys
Sampled Date	19/01/2023 3:40:00PM
Sample Received Date	20/01/2023 3:41:55PM
Sample Analysis Completed	10/02/2023 4:49:18PM
Sample ID	*2022-010-8607
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/01/2023

# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	Not Calculated mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	337 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	170 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	127 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	32.6 µg/L
Phaeophytin a	0.1	19.9 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N T0100-01(ADEL)			10/02/2023
Ammonia as N	0.005	0.250 mg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	9200 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	8.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	39.0 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		2.45 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31524-EPA - Bonneys
Sampled Date	19/01/2023 3:40:00PM
Sample Received Date	20/01/2023 3:41:55PM
Sample Analysis Completed	10/02/2023 4:49:18PM
Sample ID	*2022-010-8607
Status	Endorsed
Collection Type	Customer Collected

Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	10.465 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.249 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	3.67 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	2.44 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	15.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	20.4 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		138 mg/L	
Bicarbonate		168 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	26000 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	16400 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		7.8 pH units	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31524-EPA - Bonneys
Sampled Date	19/01/2023 3:40:00PM
Sample Received Date	20/01/2023 3:41:55PM
Sample Analysis Completed	10/02/2023 4:49:18PM
Sample ID	*2022-010-8607
Status	Endorsed
Collection Type	Customer Collected

pH T0010-01(ADEL)			23/01/2023
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	11 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	5 mg/L	





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/01/2023 4:10:00PM
Sample Received Date	20/01/2023 3:39:35PM
Sample Analysis Completed	7/02/2023 11:42:01AM
Sample ID	*2022-010-8599
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

DIATOMS

Nitzschia small_spp	20 cells/mL
---------------------	-------------

GREEN ALGAE

Unicellular green algae	27000 cells/mL
-------------------------	----------------

Chlorella	89500 cells/mL
-----------	----------------

Phytoplankton	200 cells/mL
---------------	--------------

Tetraselmis	133 cells/mL
-------------	--------------

Organism - Comment	Chlorella - The identification for this organism is tentative only.
--------------------	---

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

19/01/2023

DIATOMS

Nitzschia small_spp	<0.01 mm ³ /L
---------------------	--------------------------

GREEN ALGAE

Chlorella	4.03 mm ³ /L
-----------	-------------------------

# Algal Biovolume Comment	Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.
---------------------------	--

# Total Algae Biovolume	Not Calculated mm ³ /L
-------------------------	-----------------------------------

# Total Blue_Green Algae Biovolume	0.00 mm ³ /L
------------------------------------	-------------------------

# Total Diatom Biovolume	<0.01 mm ³ /L
--------------------------	--------------------------

# Total Green Algae Biovolume	Not Calculated mm ³ /L
-------------------------------	-----------------------------------

Total Toxic BGA Biovolume	0.00 mm ³ /L
---------------------------	-------------------------

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

19/01/2023



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/01/2023 4:10:00PM
Sample Received Date	20/01/2023 3:39:35PM
Sample Analysis Completed	7/02/2023 11:42:01AM
Sample ID	*2022-010-8599
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	117000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	20 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	117000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	7.28 µg/L
Phaeophytin a	0.1	2.41 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	109 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	7930 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	4.2 µg/L	
# Nitrate + Nitrite as NO3	2.3	18.6 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		1.70 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	5.083 µg/L	
Phosphorus-Filterable Reactive as P	0.5	1.7 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.066 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	11.5 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

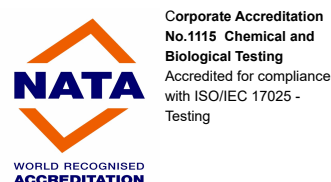
Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/01/2023 4:10:00PM
Sample Received Date	20/01/2023 3:39:35PM
Sample Analysis Completed	7/02/2023 11:42:01AM
Sample ID	*2022-010-8599
Status	Endorsed
Collection Type	Customer Collected

TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	1.70 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	17.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	17.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		157 mg/L	
Bicarbonate		192 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	51800 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	36600 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.0 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	2.6 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/01/2023 4:10:00PM
Sample Received Date	20/01/2023 3:39:35PM
Sample Analysis Completed	7/02/2023 11:42:01AM
Sample ID	*2022-010-8599
Status	Endorsed
Collection Type	Customer Collected

Suspended Solids T0160-01(ADEL)

24/01/2023

Suspended Solids	1.0	7 mg/L
------------------	-----	--------





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	19/01/2023 4:40:00PM
Sample Received Date	20/01/2023 3:39:51PM
Sample Analysis Completed	7/02/2023 12:14:03PM
Sample ID	*2022-010-8595
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

DIATOMS

Nitzschia	90 cells/mL
PENNALES	30 cells/mL

GREEN ALGAE

Pyramimonas	130 cells/mL
Chlorella	286000 cells/mL
Unicellular green algae	75000 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

19/01/2023

DIATOMS

Nitzschia	0.12 mm3/L
PENNALES	<0.01 mm3/L

GREEN ALGAE

Chlorella	12.9 mm3/L
-----------	------------

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	0.12 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

19/01/2023

Algae - Total	361000 cells/mL
---------------	-----------------



WORLD RECOGNISED
ACCREDITATION

Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	19/01/2023 4:40:00PM
Sample Received Date	20/01/2023 3:39:51PM
Sample Analysis Completed	7/02/2023 12:14:03PM
Sample ID	*2022-010-8595
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

19/01/2023

Blue Green Algae - Total	0 cells/mL
Diatoms - Total	120 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	361000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	35.2 µg/L
Phaeophytin a	0.1	19.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	91 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	23500 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	3.0 µg/L	
# Nitrate + Nitrite as NO3	2.3	13.3 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		3.80 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	4.485 µg/L	
Phosphorus-Filterable Reactive as P	0.5	1.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.190 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	0.07 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	3.80 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	19/01/2023 4:40:00PM
Sample Received Date	20/01/2023 3:39:51PM
Sample Analysis Completed	7/02/2023 12:14:03PM
Sample ID	*2022-010-8595
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	18.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	22.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		181 mg/L	
Bicarbonate		221 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	61800 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	45600 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.0 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	21 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	20 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	19/01/2023 4:40:00PM
Sample Received Date	20/01/2023 3:39:51PM
Sample Analysis Completed	7/02/2023 12:14:03PM
Sample ID	*2022-010-8595
Status	Endorsed
Collection Type	Customer Collected





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31528-EPA - Salt Creek Outlet
Sampled Date	20/01/2023 8:20:00AM
Sample Received Date	20/01/2023 3:42:45PM
Sample Analysis Completed	7/02/2023 2:27:05PM
Sample ID	*2022-010-8608
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

DINOFLAGELLATES

Oxyrrhis	110 cells/mL
Heterocapsa	130 cells/mL

GREEN ALGAE

Chlorella	1120000 cells/mL
Phytoflagellates	4750 cells/mL
Unicellular green algae	553000 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

GREEN ALGAE

Chlorella	50.4 mm3/L
-----------	------------

# Algal Biovolume Comment	Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.
# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	0.00 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	1680000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	0 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31528-EPA - Salt Creek Outlet
Sampled Date	20/01/2023 8:20:00AM
Sample Received Date	20/01/2023 3:42:45PM
Sample Analysis Completed	7/02/2023 2:27:05PM
Sample ID	*2022-010-8608
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL) 20/01/2023

Green Algae - Total	1680000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/01/2023

Chlorophyll a	0.1	65.5 µg/L
Phaeophytin a	0.1	23.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	65 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	38600 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	5.3 µg/L	
# Nitrate + Nitrite as NO3	2.3	23.5 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		4.64 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	6.279 µg/L	
Phosphorus-Filterable Reactive as P	0.5	2.1 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.209 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	5.57 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	4.63 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
-------------------	-----	--------	-----------------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31528-EPA - Salt Creek Outlet
Sampled Date	20/01/2023 8:20:00AM
Sample Received Date	20/01/2023 3:42:45PM
Sample Analysis Completed	7/02/2023 2:27:05PM
Sample ID	*2022-010-8608
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	22.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	31.0 mg/L	

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

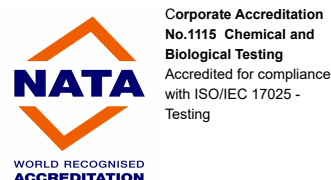
Sample temperature at time of receipt 9.2°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		218 mg/L	
Bicarbonate		266 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	91500 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	75600 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.1 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	11 NTU	

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

Sample temperature at time of receipt 9.2°C

Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	12 mg/L	





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	20/01/2023 8:23:00AM
Sample Received Date	20/01/2023 3:39:20PM
Sample Analysis Completed	10/02/2023 4:49:17PM
Sample ID	*2022-010-8596
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

DINOFLAGELLATES

Heterocapsa	625 cells/mL
Oxyrrhis	650 cells/mL

GREEN ALGAE

Unicellular green algae	449000 cells/mL
Chlorella	397000 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

GREEN ALGAE

Chlorella	17.9 mm3/L
-----------	------------

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	0.00 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	847000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	0 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	846000 cells/mL



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	20/01/2023 8:23:00AM
Sample Received Date	20/01/2023 3:39:20PM
Sample Analysis Completed	10/02/2023 4:49:17PM
Sample ID	*2022-010-8596
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)	20/01/2023
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)	20/01/2023
Chlorophyll a	0.1 40.0 µg/L
Phaeophytin a	0.1 14.4 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N T0100-01(ADEL)			10/02/2023
Ammonia as N	0.005	0.117 mg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	42300 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	5.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	25.7 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		4.10 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	9.269 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.1 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.180 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	6.09 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	4.09 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
-------------------	-----	--------	-----------------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	20/01/2023 8:23:00AM
Sample Received Date	20/01/2023 3:39:20PM
Sample Analysis Completed	10/02/2023 4:49:17PM
Sample ID	*2022-010-8596
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Dissolved Organic Carbon T0158-07(ADEL) 31/01/2023

Dissolved Organic Carbon	1	22.7 mg/L
--------------------------	---	-----------

Total Organic Carbon T0158-07(ADEL) 31/01/2023

Total Organic Carbon	1	31.9 mg/L
----------------------	---	-----------

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

Sample temperature at time of receipt 9.2°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 23/01/2023

Alkalinity as Calcium Carbonate	221 mg/L
---------------------------------	----------

Bicarbonate	269 mg/L
-------------	----------

Carbonate	0 mg/L
-----------	--------

Hydroxide	0 mg/L
-----------	--------

Conductivity & Total Dissolved Solids T0016-01(ADEL) 23/01/2023

Conductivity	2	96400 µS/cm
--------------	---	-------------

Note	Conductivity measurement is corrected to 25°C
------	---

Total Dissolved Solids (by EC)	1	81100 mg/L
--------------------------------	---	------------

pH T0010-01(ADEL) 23/01/2023

pH	8.0 pH units
----	--------------

Temperature at which pH is measured	23.0 °C
-------------------------------------	---------

Turbidity T0018-01(ADEL) 23/01/2023

Turbidity	0.1	11 NTU
-----------	-----	--------

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

Sample temperature at time of receipt 9.2°C

Suspended Solids T0160-01(ADEL) 24/01/2023

Suspended Solids	1.0	16 mg/L
------------------	-----	---------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	20/01/2023 8:40:00AM
Sample Received Date	20/01/2023 3:40:36PM
Sample Analysis Completed	7/02/2023 2:31:07PM
Sample ID	*2022-010-8597
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

DINOFLAGELLATES

Oxyrrhis	230 cells/mL
Heterocapsa	150 cells/mL

GREEN ALGAE

Chlorella	847000 cells/mL
Unicellular green algae	389000 cells/mL
Phytoflagellates	2430 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

GREEN ALGAE

Chlorella	38.1 mm3/L
-----------	------------

# Algal Biovolume Comment	Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.
# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	0.00 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

Algae - Total	1240000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	0 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	20/01/2023 8:40:00AM
Sample Received Date	20/01/2023 3:40:36PM
Sample Analysis Completed	7/02/2023 2:31:07PM
Sample ID	*2022-010-8597
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

Green Algae - Total	1240000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	69.4 µg/L
Phaeophytin a	0.1	24.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	54 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	32500 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	2.9 µg/L	
# Nitrate + Nitrite as NO3	2.3	12.8 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		4.64 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	<1.5 µg/L	
Phosphorus-Filterable Reactive as P	0.5	<0.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.234 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	5.51 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	4.64 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
-------------------	-----	--------	-----------------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	20/01/2023 8:40:00AM
Sample Received Date	20/01/2023 3:40:36PM
Sample Analysis Completed	7/02/2023 2:31:07PM
Sample ID	*2022-010-8597
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	22.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	31.4 mg/L	

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

Sample temperature at time of receipt 9.2°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 23/01/2023

Alkalinity as Calcium Carbonate	218 mg/L
Bicarbonate	266 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 23/01/2023

Conductivity	2	91700 µS/cm
Note		Conductivity measurement is corrected to 25°C
Total Dissolved Solids (by EC)	1	75800 mg/L

pH T0010-01(ADEL) 23/01/2023

pH	8.1 pH units
Temperature at which pH is measured	22.9 °C

Turbidity T0018-01(ADEL) 23/01/2023

Turbidity	0.1	12 NTU
-----------	-----	--------

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

Sample temperature at time of receipt 9.2°C

Suspended Solids T0160-01(ADEL) 24/01/2023

Suspended Solids	1.0	36 mg/L
------------------	-----	---------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	20/01/2023 8:43:00AM
Sample Received Date	20/01/2023 3:41:08PM
Sample Analysis Completed	7/02/2023 1:06:05PM
Sample ID	*2022-010-8601
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

Other Organisms	300 cells/mL
BLUE GREEN ALGAE	
Merismopedia	16 cells/mL
DIATOMS	
Synedra	16 cells/mL
Nitzschia	2 cells/mL
GREEN ALGAE	
Pyramimonas	4 cells/mL
Chlorella	1450 cells/mL
Unicellular green algae	700 cells/mL
Monoraphidium sp_2_(short)	2300 cells/mL
Oocystis	350 cells/mL
Phytoflagellates small_spp	250 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

BLUE GREEN ALGAE	
Merismopedia	<0.01 mm3/L
DIATOMS	
Synedra	0.01 mm3/L
Nitzschia	<0.01 mm3/L
GREEN ALGAE	
Chlorella	0.07 mm3/L
Monoraphidium sp_2_(short)	0.12 mm3/L
Oocystis	0.10 mm3/L
Phytoflagellates small_spp	0.02 mm3/L



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	20/01/2023 8:43:00AM
Sample Received Date	20/01/2023 3:41:08PM
Sample Analysis Completed	7/02/2023 1:06:05PM
Sample ID	*2022-010-8601
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

20/01/2023

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	<0.01 mm3/L
# Total Diatom Biovolume	<0.02 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	5090 cells/mL
Blue Green Algae - Total	16 cells/mL
Diatoms - Total	18 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	5050 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	1.86 µg/L
Phaeophytin a	0.1	1.00 µg/L

Inorganic Chemistry - Nutrients

LOR

Result

Test Start Date

Sample temperature at time of receipt 9.2°C

Ammonia as N (ADEL)

06/02/2023

# Ammonia as N	1	40 µg/L
----------------	---	---------

Chloride T0104-02(ADEL)

06/02/2023

Chloride	4.0	7220 mg/L
----------	-----	-----------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	20/01/2023 8:43:00AM
Sample Received Date	20/01/2023 3:41:08PM
Sample Analysis Completed	7/02/2023 1:06:05PM
Sample ID	*2022-010-8601
Status	Endorsed
Collection Type	Customer Collected

Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	2.6 µg/L	
# Nitrate + Nitrite as NO3	2.3	11.5 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		1.44 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	8.671 µg/L	
Phosphorus-Filterable Reactive as P	0.5	2.9 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.040 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	15.2 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	1.44 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	13.5 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	14.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		325 mg/L	
Bicarbonate		287 mg/L	
Carbonate		54 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	20/01/2023 8:43:00AM
Sample Received Date	20/01/2023 3:41:08PM
Sample Analysis Completed	7/02/2023 1:06:05PM
Sample ID	*2022-010-8601
Status	Endorsed
Collection Type	Customer Collected

Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	20700 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	12700 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.9 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	1.7 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	<1 mg/L	





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	20/01/2023 8:50:00AM
Sample Received Date	20/01/2023 3:40:20PM
Sample Analysis Completed	7/02/2023 12:35:46PM
Sample ID	*2022-010-8594
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

DIATOMS			
Nitzschia small_spp		200 cells/mL	
Pennate diatoms small_spp		550 cells/mL	
DINOFLAGELLATES			
Oxyrrhis		60 cells/mL	
GREEN ALGAE			
Unicellular green algae		142000 cells/mL	
Chlorella		312000 cells/mL	

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

DIATOMS			
Nitzschia small_spp		0.03 mm3/L	
GREEN ALGAE			
Chlorella		14.0 mm3/L	
# Algal Biovolume Comment		Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.	
# Total Algae Biovolume		Not Calculated	mm3/L
# Total Blue_Green Algae Biovolume		0.00	mm3/L
# Total Diatom Biovolume		Not Calculated	mm3/L
# Total Green Algae Biovolume		Not Calculated	mm3/L
Total Toxic BGA Biovolume		0.00	mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	455000 cells/mL
---------------	-----------------





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	20/01/2023 8:50:00AM
Sample Received Date	20/01/2023 3:40:20PM
Sample Analysis Completed	7/02/2023 12:35:46PM
Sample ID	*2022-010-8594
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

20/01/2023

Blue Green Algae - Total	0 cells/mL
Diatoms - Total	750 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	454000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	77.0 µg/L
Phaeophytin a	0.1	26.2 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	52 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	38800 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	2.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	12.4 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		4.23 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	2.093 µg/L	
Phosphorus-Filterable Reactive as P	0.5	0.7 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.197 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	5.56 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	4.23 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	20/01/2023 8:50:00AM
Sample Received Date	20/01/2023 3:40:20PM
Sample Analysis Completed	7/02/2023 12:35:46PM
Sample ID	*2022-010-8594
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	21.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	28.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		217 mg/L	
Bicarbonate		264 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	90700 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	74700 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.0 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	13 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	44 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	20/01/2023 8:50:00AM
Sample Received Date	20/01/2023 3:40:20PM
Sample Analysis Completed	7/02/2023 12:35:46PM
Sample ID	*2022-010-8594
Status	Endorsed
Collection Type	Customer Collected





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	20/01/2023 9:00:00AM
Sample Received Date	20/01/2023 3:40:52PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8600
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

BLUE GREEN ALGAE

Cyanodictyon	930 cells/mL
--------------	--------------

DIATOMS

Nitzschia	10 cells/mL
-----------	-------------

Synedra	50 cells/mL
---------	-------------

Pennate diatoms	10 cells/mL
-----------------	-------------

DINOFLAGELLATES

PERIDINIACEAE	2 cells/mL
---------------	------------

GREEN ALGAE

Microspora	90 cells/mL
------------	-------------

Monoraphidium sp_2_(short)	7300 cells/mL
----------------------------	---------------

Scenedesmus	40 cells/mL
-------------	-------------

Oocystis sp_1_(small_cells)	250 cells/mL
-----------------------------	--------------

Chlorella	9200 cells/mL
-----------	---------------

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

BLUE GREEN ALGAE

Cyanodictyon	<0.01 mm3/L
--------------	-------------

DIATOMS

Nitzschia	0.01 mm3/L
-----------	------------

Synedra	0.03 mm3/L
---------	------------

GREEN ALGAE

Monoraphidium sp_2_(short)	0.39 mm3/L
----------------------------	------------

Scenedesmus	0.01 mm3/L
-------------	------------

Oocystis sp_1_(small_cells)	0.04 mm3/L
-----------------------------	------------

Chlorella	0.41 mm3/L
-----------	------------



WORLD RECOGNISED
ACCREDITATION

Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	20/01/2023 9:00:00AM
Sample Received Date	20/01/2023 3:40:52PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8600
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

20/01/2023

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	<0.01 mm3/L
# Total Diatom Biovolume	Not Calculated mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	17900 cells/mL
Blue Green Algae - Total	930 cells/mL
Diatoms - Total	70 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	16900 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	2.33 µg/L
Phaeophytin a	0.1	1.06 µg/L

Inorganic Chemistry - Nutrients

LOR

Result

Test Start Date

Sample temperature at time of receipt 9.2°C

Ammonia as N (ADEL)

06/02/2023

# Ammonia as N	1	32 µg/L
----------------	---	---------

Chloride T0104-02(ADEL)

06/02/2023

Chloride	4.0	7190 mg/L
----------	-----	-----------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	20/01/2023 9:00:00AM
Sample Received Date	20/01/2023 3:40:52PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8600
Status	Endorsed
Collection Type	Customer Collected

Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	2.1 µg/L	
# Nitrate + Nitrite as NO3	2.3	9.30 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		1.22 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	5.98 µg/L	
Phosphorus-Filterable Reactive as P	0.5	2.0 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.025 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	16.0 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	1.22 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	14.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	14.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		322 mg/L	
Bicarbonate		268 mg/L	
Carbonate		61 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	20/01/2023 9:00:00AM
Sample Received Date	20/01/2023 3:40:52PM
Sample Analysis Completed	10/02/2023 10:43:05AM
Sample ID	*2022-010-8600
Status	Endorsed
Collection Type	Customer Collected

Conductivity & Total Dissolved Solids T0016-01(ADEL)

23/01/2023

Conductivity	2	20700 μ S/cm
Note		Conductivity measurement is corrected to 25°C
Total Dissolved Solids (by EC)	1	12700 mg/L

pH T0010-01(ADEL)

23/01/2023

pH	8.9 pH units
Temperature at which pH is measured	23.0 °C

Turbidity T0018-01(ADEL)

23/01/2023

Turbidity	0.1	1.5 NTU
-----------	-----	---------

Inorganic Chemistry - Waste Water

LOR

Result

Test Start Date

Sample temperature at time of receipt 9.2°C

Suspended Solids T0160-01(ADEL)

24/01/2023

Suspended Solids	1.0	<1 mg/L
------------------	-----	---------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	531012-EPA - Sth Policeman Point
Sampled Date	20/01/2023 9:10:00AM
Sample Received Date	20/01/2023 3:44:04PM
Sample Analysis Completed	8/02/2023 9:36:40AM
Sample ID	*2022-010-8611
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

DIATOMS

Pennate diatoms small_spp	1100 cells/mL
---------------------------	---------------

DINOFLAGELLATES

Oxyrrhis	50 cells/mL
----------	-------------

GREEN ALGAE

Chlorella	916000 cells/mL
-----------	-----------------

Unicellular green algae	220000 cells/mL
-------------------------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

GREEN ALGAE

Chlorella	41.2 mm3/L
-----------	------------

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
-------------------------	----------------------

# Total Blue_Green Algae Biovolume	0.00 mm3/L
------------------------------------	------------

# Total Diatom Biovolume	Not Calculated mm3/L
--------------------------	----------------------

# Total Green Algae Biovolume	Not Calculated mm3/L
-------------------------------	----------------------

Total Toxic BGA Biovolume	0.00 mm3/L
---------------------------	------------

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	1140000 cells/mL
---------------	------------------

Blue Green Algae - Total	0 cells/mL
--------------------------	------------

Diatoms - Total	1100 cells/mL
-----------------	---------------

Geosmin-MIB producing BGA - Total	0 cells/mL
-----------------------------------	------------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	531012-EPA - Sth Policeman Point
Sampled Date	20/01/2023 9:10:00AM
Sample Received Date	20/01/2023 3:44:04PM
Sample Analysis Completed	8/02/2023 9:36:40AM
Sample ID	*2022-010-8611
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL) 20/01/2023

Green Algae - Total	1140000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/01/2023

Chlorophyll a	0.1	78.4 µg/L
Phaeophytin a	0.1	28.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	42 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	35800 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	1.3 µg/L	
# Nitrate + Nitrite as NO3	2.3	5.76 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		3.92 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	<1.5 µg/L	
Phosphorus-Filterable Reactive as P	0.5	<0.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.187 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	5.22 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	3.92 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
-------------------	-----	--------	-----------------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	531012-EPA - Sth Policeman Point
Sampled Date	20/01/2023 9:10:00AM
Sample Received Date	20/01/2023 3:44:04PM
Sample Analysis Completed	8/02/2023 9:36:40AM
Sample ID	*2022-010-8611
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	22.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	30.2 mg/L	

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

Sample temperature at time of receipt 9.2°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 23/01/2023

Alkalinity as Calcium Carbonate	215 mg/L
Bicarbonate	263 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 23/01/2023

Conductivity	2	89900 µS/cm
Note		Conductivity measurement is corrected to 25°C
Total Dissolved Solids (by EC)	1	73800 mg/L

pH T0010-01(ADEL) 23/01/2023

pH	8.1 pH units
Temperature at which pH is measured	22.8 °C

Turbidity T0018-01(ADEL) 23/01/2023

Turbidity	0.1	13 NTU
-----------	-----	--------

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

Sample temperature at time of receipt 9.2°C

Suspended Solids T0160-01(ADEL) 24/01/2023

Suspended Solids	1.0	5 mg/L
------------------	-----	--------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	20/01/2023 9:30:00AM
Sample Received Date	20/01/2023 3:42:28PM
Sample Analysis Completed	8/02/2023 3:30:56PM
Sample ID	*2022-010-8593
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

DIATOMS

Amphiprora_(=Entomoneis)	10 cells/mL
--------------------------	-------------

DINOFLAGELLATES

Heterocapsa	160 cells/mL
Oxyrrhis	80 cells/mL
Gymnodinioids	30 cells/mL

GREEN ALGAE

Unicellular green algae	210000 cells/mL
Phytoflagellates	3250 cells/mL
Chlorella	1020000 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

DIATOMS

Amphiprora_(=Entomoneis)	0.15 mm3/L
--------------------------	------------

GREEN ALGAE

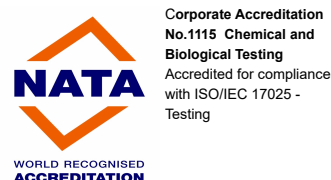
Chlorella	45.9 mm3/L
-----------	------------

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	0.15 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	20/01/2023 9:30:00AM
Sample Received Date	20/01/2023 3:42:28PM
Sample Analysis Completed	8/02/2023 3:30:56PM
Sample ID	*2022-010-8593
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	1230000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	10 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	1230000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	88.7 µg/L
Phaeophytin a	0.1	32.9 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	36 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	34200 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	1.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	7.97 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		3.48 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	1.794 µg/L	
Phosphorus-Filterable Reactive as P	0.5	0.6 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.174 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	2.91 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	20/01/2023 9:30:00AM
Sample Received Date	20/01/2023 3:42:28PM
Sample Analysis Completed	8/02/2023 3:30:56PM
Sample ID	*2022-010-8593
Status	Endorsed
Collection Type	Customer Collected

TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	3.48 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	21.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	26.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		212 mg/L	
Bicarbonate		259 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	83500 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	67000 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.1 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	14 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	20/01/2023 9:30:00AM
Sample Received Date	20/01/2023 3:42:28PM
Sample Analysis Completed	8/02/2023 3:30:56PM
Sample ID	*2022-010-8593
Status	Endorsed
Collection Type	Customer Collected

Suspended Solids T0160-01(ADEL)

24/01/2023

Suspended Solids	1.0	55 mg/L
------------------	-----	---------





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	20/01/2023 9:56:00AM
Sample Received Date	20/01/2023 3:39:05PM
Sample Analysis Completed	8/02/2023 3:25:25PM
Sample ID	*2022-010-8602
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

GREEN ALGAE

Phytoflagellates	550 cells/mL
Chlorella	60500 cells/mL
Unicellular green algae	400 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

GREEN ALGAE

Chlorella	2.72 mm3/L
-----------	------------

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	0.00 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	61400 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	0 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	61400 cells/mL
Toxin producing BGA - Total	0 cells/mL



WORLD RECOGNISED
ACCREDITATION

Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	20/01/2023 9:56:00AM
Sample Received Date	20/01/2023 3:39:05PM
Sample Analysis Completed	8/02/2023 3:25:25PM
Sample ID	*2022-010-8602
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	1.57 µg/L
Phaeophytin a	0.1	0.23 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	107 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	7900 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	5.5 µg/L	
# Nitrate + Nitrite as NO3	2.3	24.4 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		1.33 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	6.877 µg/L	
Phosphorus-Filterable Reactive as P	0.5	2.3 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.041 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	11.7 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	1.32 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	12.0 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	20/01/2023 9:56:00AM
Sample Received Date	20/01/2023 3:39:05PM
Sample Analysis Completed	8/02/2023 3:25:25PM
Sample ID	*2022-010-8602
Status	Endorsed
Collection Type	Customer Collected

Total Organic Carbon T0158-07(ADEL)		31/01/2023
Total Organic Carbon	1	12.5 mg/L

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			24/01/2023
Alkalinity as Calcium Carbonate		325 mg/L	
Bicarbonate		383 mg/L	
Carbonate		7 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			24/01/2023
Conductivity	2	22900 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	14200 mg/L	
pH T0010-01(ADEL)			24/01/2023
pH		8.3 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	2.8 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	<1 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	20/01/2023 10:10:00AM
Sample Received Date	20/01/2023 3:40:06PM
Sample Analysis Completed	8/02/2023 3:48:36PM
Sample ID	*2022-010-8598
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

DIATOMS

Gyrosigma	2 cells/mL
-----------	------------

GREEN ALGAE

Chlorella	1140000 cells/mL
Unicellular green algae	231000 cells/mL

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

DIATOMS

Gyrosigma	<0.01 mm3/L
-----------	-------------

GREEN ALGAE

Chlorella	51.3 mm3/L
-----------	------------

# Algal Biovolume Comment	Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.
# Total Algae Biovolume	Not Calculated mm3/L
# Total Blue_Green Algae Biovolume	0.00 mm3/L
# Total Diatom Biovolume	<0.01 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	1370000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	2 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	20/01/2023 10:10:00AM
Sample Received Date	20/01/2023 3:40:06PM
Sample Analysis Completed	8/02/2023 3:48:36PM
Sample ID	*2022-010-8598
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL) 20/01/2023

Green Algae - Total	1370000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/01/2023

Chlorophyll a	0.1	79.4 µg/L
Phaeophytin a	0.1	29.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	31 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	30600 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	1.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	7.97 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		2.91 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	5.382 µg/L	
Phosphorus-Filterable Reactive as P	0.5	1.8 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.145 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	2.25 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	2.91 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
-------------------	-----	--------	-----------------



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	20/01/2023 10:10:00AM
Sample Received Date	20/01/2023 3:40:06PM
Sample Analysis Completed	8/02/2023 3:48:36PM
Sample ID	*2022-010-8598
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.2°C

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	19.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	27.5 mg/L	

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

Sample temperature at time of receipt 9.2°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		204 mg/L	
Bicarbonate		248 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	

Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
---	--	--	------------

Conductivity	2	76100 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	59400 mg/L	

pH T0010-01(ADEL)			23/01/2023
--------------------------	--	--	------------

pH		8.1 pH units	
Temperature at which pH is measured		22.9 °C	

Turbidity T0018-01(ADEL)			23/01/2023
---------------------------------	--	--	------------

Turbidity	0.1	14 NTU	
-----------	-----	--------	--

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

Sample temperature at time of receipt 9.2°C

Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	16 mg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	20/01/2023 10:40:00AM
Sample Received Date	20/01/2023 3:42:12PM
Sample Analysis Completed	8/02/2023 3:55:13PM
Sample ID	*2022-010-8591
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 9.2°C

Algal Identification T0393(ADEL)

BLUE GREEN ALGAE			
Planktolyngbya		860 cells/mL	
DIATOMS			
Pennate diatoms		20 cells/mL	
Nitzschia		30 cells/mL	
Navicula		10 cells/mL	
DINOFLAGELLATES			
Heterocapsa		10 cells/mL	
GREEN ALGAE			
Phytoflagellates		400 cells/mL	
Unicellular green algae		153000 cells/mL	
Chlorella		899000 cells/mL	

Sample temperature at time of receipt 9.2°C

Algal Biovolume T0393(ADEL)

20/01/2023

BLUE GREEN ALGAE			
Planktolyngbya		<0.01 mm3/L	
DIATOMS			
Nitzschia		0.04 mm3/L	
Navicula		0.01 mm3/L	
GREEN ALGAE			
Chlorella		40.5 mm3/L	
# Algal Biovolume Comment		Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.	
# Total Algae Biovolume		Not Calculated mm3/L	
# Total Blue_Green Algae Biovolume		<0.01 mm3/L	





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	20/01/2023 10:40:00AM
Sample Received Date	20/01/2023 3:42:12PM
Sample Analysis Completed	8/02/2023 3:55:13PM
Sample ID	*2022-010-8591
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

20/01/2023

# Total Diatom Biovolume	Not Calculated mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 9.2°C

Algal Count - Total T0393(ADEL)

20/01/2023

Algae - Total	1050000 cells/mL
Blue Green Algae - Total	860 cells/mL
Diatoms - Total	60 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	1050000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/01/2023

Chlorophyll a	0.1	45.4 µg/L
Phaeophytin a	0.1	19.5 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Ammonia as N (ADEL)			06/02/2023
# Ammonia as N	1	29 µg/L	
Chloride T0104-02(ADEL)			06/02/2023
Chloride	4.0	26800 mg/L	
Nitrate + Nitrite as N (ADEL)			06/02/2023
# Nitrate + Nitrite as N	0.5	1.3 µg/L	
# Nitrate + Nitrite as NO3	2.3	5.76 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/01/2023
Nitrogen - Total		2.72 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
# Phosphorus -Filterable Reactive as PO4	1.5	<1.5 µg/L	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	20/01/2023 10:40:00AM
Sample Received Date	20/01/2023 3:42:12PM
Sample Analysis Completed	8/02/2023 3:55:13PM
Sample ID	*2022-010-8591
Status	Endorsed
Collection Type	Customer Collected

Phosphorus - Filterable Reactive as P (ADEL)			06/02/2023
Phosphorus-Filterable Reactive as P	0.5	<0.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			31/01/2023
Phosphorus - Total	0.005	0.116 mg/L	
Silica - Reactive T0111-01(ADEL)			06/02/2023
Silica - Reactive	0.05	0.81 mg/L	
TKN as N T0112-01(ADEL)			31/01/2023
TKN as Nitrogen	0.05	2.72 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2023
Dissolved Organic Carbon	1	18.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2023
Total Organic Carbon	1	23.0 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2023
Alkalinity as Calcium Carbonate		189 mg/L	
Bicarbonate		231 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2023
Conductivity	2	67100 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	50500 mg/L	
pH T0010-01(ADEL)			23/01/2023
pH		8.0 pH units	
Temperature at which pH is measured		23.0 °C	



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



Internet: www.awqc.com.au

Email: awqc@sawater.com.au

FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	20/01/2023 10:40:00AM
Sample Received Date	20/01/2023 3:42:12PM
Sample Analysis Completed	8/02/2023 3:55:13PM
Sample ID	*2022-010-8591
Status	Endorsed
Collection Type	Customer Collected

Turbidity T0018-01(ADEL)			23/01/2023
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			24/01/2023
Suspended Solids	1.0	13 mg/L	





FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

AWQC Signatories

Dzung Bui - Supervisor Metals and Physical

Thuy Diep - Technical Officer Chemistry

Andrew Ford - Acting Method Development Specialist

Kerrie Jooste - Manager Chemistry Services

John Martini - Method Development Specialist

Dean Newman - Senior Technical Officer Biology

Melissa Phillips - Technical Officer Chemistry

Gayle Polley - Supervisor Nutrients and Waste

Lyudmila Tsymbal - Technical Officer Life Sciences



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-010-8591	31525	EPA - Villa de Yumpa	20/01/2023	pH	Test not processed within holding time
2022-010-8591	31525	EPA - Villa de Yumpa	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8591	31525	EPA - Villa de Yumpa	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8591	31525	EPA - Villa de Yumpa	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8591	31525	EPA - Villa de Yumpa	20/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8592	31523	EPA - Long Point	19/01/2023	pH	Test not processed within holding time
2022-010-8592	31523	EPA - Long Point	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8592	31523	EPA - Long Point	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8592	31523	EPA - Long Point	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8592	31523	EPA - Long Point	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8593	31526	EPA - Nth Jack Point	20/01/2023	pH	Test not processed within holding time
2022-010-8593	31526	EPA - Nth Jack Point	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8593	31526	EPA - Nth Jack Point	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8593	31526	EPA - Nth Jack Point	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8593	31526	EPA - Nth Jack Point	20/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8594	31515	EPA - Snipe Point	20/01/2023	pH	Test not processed within holding time
2022-010-8594	31515	EPA - Snipe Point	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8594	31515	EPA - Snipe Point	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8594	31515	EPA - Snipe Point	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8594	31515	EPA - Snipe Point	20/01/2023	Silica - Reactive	Test not processed within holding time



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-010-8595	31513	EPA - Parnka Point Boat Ramp	19/01/2023	pH	Test not processed within holding time
2022-010-8595	31513	EPA - Parnka Point Boat Ramp	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8595	31513	EPA - Parnka Point Boat Ramp	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8595	31513	EPA - Parnka Point Boat Ramp	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8595	31513	EPA - Parnka Point Boat Ramp	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8596	31511	EPA - 3.2km South Salt Creek	20/01/2023	pH	Test not processed within holding time
2022-010-8596	31511	EPA - 3.2km South Salt Creek	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8596	31511	EPA - 3.2km South Salt Creek	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8596	31511	EPA - 3.2km South Salt Creek	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8596	31511	EPA - 3.2km South Salt Creek	20/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8597	31517	EPA - 1.8km West Salt Creek	20/01/2023	pH	Test not processed within holding time
2022-010-8597	31517	EPA - 1.8km West Salt Creek	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8597	31517	EPA - 1.8km West Salt Creek	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8597	31517	EPA - 1.8km West Salt Creek	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8597	31517	EPA - 1.8km West Salt Creek	20/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8598	31514	EPA - Stoney Well	20/01/2023	pH	Test not processed within holding time
2022-010-8598	31514	EPA - Stoney Well	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8598	31514	EPA - Stoney Well	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8598	31514	EPA - Stoney Well	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8598	31514	EPA - Stoney Well	20/01/2023	Silica - Reactive	Test not processed within holding time



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION

FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-010-8599	31512	EPA - McGrath Flat North	19/01/2023	pH	Test not processed within holding time
2022-010-8599	31512	EPA - McGrath Flat North	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8599	31512	EPA - McGrath Flat North	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8599	31512	EPA - McGrath Flat North	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8599	31512	EPA - McGrath Flat North	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8600	31519	EPA - Morella Basin at Outlet Regulator	20/01/2023	pH	Test not processed within holding time
2022-010-8600	31519	EPA - Morella Basin at Outlet Regulator	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8600	31519	EPA - Morella Basin at Outlet Regulator	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8600	31519	EPA - Morella Basin at Outlet Regulator	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8600	31519	EPA - Morella Basin at Outlet Regulator	20/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8601	315191	EPA - Morella Creek @ guage	20/01/2023	pH	Test not processed within holding time
2022-010-8601	315191	EPA - Morella Creek @ guage	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8601	315191	EPA - Morella Creek @ guage	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8601	315191	EPA - Morella Creek @ guage	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8601	315191	EPA - Morella Creek @ guage	20/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8602	300713	Tilley Swamp Drain D/S Northern Outlet	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8602	300713	Tilley Swamp Drain D/S Northern Outlet	20/01/2023	pH	Test not processed within holding time
2022-010-8602	300713	Tilley Swamp Drain D/S Northern Outlet	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8602	300713	Tilley Swamp Drain D/S Northern Outlet	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8602	300713	Tilley Swamp Drain D/S Northern Outlet	20/01/2023	Silica - Reactive	Test not processed within holding time



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-010-8603	11504	DEW - Mundoo Upstream	19/01/2023	pH	Test not processed within holding time
2022-010-8603	11504	DEW - Mundoo Upstream	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8603	11504	DEW - Mundoo Upstream	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8603	11504	DEW - Mundoo Upstream	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8603	11504	DEW - Mundoo Upstream	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8604	11505	DEW - Mundoo Downstream	19/01/2023	pH	Test not processed within holding time
2022-010-8604	11505	DEW - Mundoo Downstream	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8604	11505	DEW - Mundoo Downstream	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8604	11505	DEW - Mundoo Downstream	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8604	11505	DEW - Mundoo Downstream	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8605	31522	EPA - Mark Point	19/01/2023	pH	Test not processed within holding time
2022-010-8605	31522	EPA - Mark Point	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8605	31522	EPA - Mark Point	19/01/2023	pH	Test not processed within holding time
2022-010-8605	31522	EPA - Mark Point	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8605	31522	EPA - Mark Point	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8605	31522	EPA - Mark Point	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8606	351213	EPA - Murray Mouth	19/01/2023	pH	Test not processed within holding time
2022-010-8606	351213	EPA - Murray Mouth	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8606	351213	EPA - Murray Mouth	19/01/2023	pH	Test not processed within holding time
2022-010-8606	351213	EPA - Murray Mouth	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-010-8606	351213	EPA - Murray Mouth	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8606	351213	EPA - Murray Mouth	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8607	31524	EPA - Bonneys	19/01/2023	pH	Test not processed within holding time
2022-010-8607	31524	EPA - Bonneys	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8607	31524	EPA - Bonneys	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8607	31524	EPA - Bonneys	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8607	31524	EPA - Bonneys	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8608	31528	EPA - Salt Creek Outlet	20/01/2023	pH	Test not processed within holding time
2022-010-8608	31528	EPA - Salt Creek Outlet	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8608	31528	EPA - Salt Creek Outlet	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8608	31528	EPA - Salt Creek Outlet	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8608	31528	EPA - Salt Creek Outlet	20/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8609	353179	EPA - Tauwichee Barrage Upstream	19/01/2023	pH	Test not processed within holding time
2022-010-8609	353179	EPA - Tauwichee Barrage Upstream	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8609	353179	EPA - Tauwichee Barrage Upstream	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8609	353179	EPA - Tauwichee Barrage Upstream	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8609	353179	EPA - Tauwichee Barrage Upstream	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8610	353177	EPA - Tauwichee Barrage DS	19/01/2023	pH	Test not processed within holding time
2022-010-8610	353177	EPA - Tauwichee Barrage DS	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8610	353177	EPA - Tauwichee Barrage DS	19/01/2023	pH	Test not processed within holding time



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

WORLD RECOGNISED
ACCREDITATION



FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-010-8610	353177	EPA - Tauwitschere Barrage DS	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8610	353177	EPA - Tauwitschere Barrage DS	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8610	353177	EPA - Tauwitschere Barrage DS	19/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8611	531012	EPA - Sth Policeman Point	20/01/2023	pH	Test not processed within holding time
2022-010-8611	531012	EPA - Sth Policeman Point	20/01/2023	Turbidity	Test not processed within holding time
2022-010-8611	531012	EPA - Sth Policeman Point	20/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8611	531012	EPA - Sth Policeman Point	20/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8611	531012	EPA - Sth Policeman Point	20/01/2023	Silica - Reactive	Test not processed within holding time
2022-010-8612	53032	EPA - Noonaameena	19/01/2023	pH	Test not processed within holding time
2022-010-8612	53032	EPA - Noonaameena	19/01/2023	Turbidity	Test not processed within holding time
2022-010-8612	53032	EPA - Noonaameena	19/01/2023	Dissolved Organic Carbon	Test not processed within holding time
2022-010-8612	53032	EPA - Noonaameena	19/01/2023	Total Organic Carbon	Test not processed within holding time
2022-010-8612	53032	EPA - Noonaameena	19/01/2023	Silica - Reactive	Test not processed within holding time



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

FINAL REPORT: 355727

This report shall not be reproduced, except in full without the written permission of the laboratory.

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
T0158-07	Total and Dissolved Organic Carbon (OI Analytical)	SM5310C
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
T0393	Microalgae & Cyanobacteria - Scan & Identification	
T0393	Microalgae & Cyanobacteria - Scan & Identification	Hotzel1999
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



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

- 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. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>
 7. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
 8. 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.
 9. 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.
 10. If pH has been tested then the pH will be outside of its holding time unless measured in the field.
 11. (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.