



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

SA 5000 AUSTRALIA

02/02/2023

Dear Claire

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2022-CSR-5

Account: 143419

Project:

AWQC-177431 DEW - Healthy Coorong Healthy Basin - Non Routine Event 3- 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: 354894

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Report Information

Project Name	AWQC-177431
Customer	DEW - Department of Environment and Water
CSR_ID	143419-2022-CSR-5

Analytical Results

Sampling Point	351213-EPA - Murray Mouth
Sampled Date	19/12/2022 12:00:00PM
Sample Received Date	20/12/2022 4:12:28PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9447
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

Other Organisms	210 cells/mL
Pseudodidymocystis	70 cells/mL
BLUE GREEN ALGAE	
Planktolyngbya	22300 cells/mL
Cyanodictyon	99500 cells/mL
DIATOMS	
Aulacoseira	300 cells/mL
Staurosira	870 cells/mL
Fragilaria	580 cells/mL
Nitzschia	100 cells/mL
GREEN ALGAE	
Planctonema	3340 cells/mL
Crucigenia	1240 cells/mL
Oocystis	450 cells/mL
Dictyosphaerium	200 cells/mL
Scenedesmus	220 cells/mL
Pediastrum	170 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

19/12/2022

Pseudodidymocystis	<0.01 mm3/L
BLUE GREEN ALGAE	
Planktolyngbya	0.11 mm3/L
Cyanodictyon	0.05 mm3/L



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Analytical Results

Sampling Point	351213-EPA - Murray Mouth
Sampled Date	19/12/2022 12:00:00PM
Sample Received Date	20/12/2022 4:12:28PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9447
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Algal Biovolume T0393(ADEL)

19/12/2022

DIATOMS

Aulacoseira	0.86 mm3/L
Staurosira	0.16 mm3/L
Fragilaria	0.37 mm3/L
Nitzschia	0.14 mm3/L

GREEN ALGAE

Crucigenia	0.04 mm3/L
Oocystis	0.14 mm3/L
Dictyosphaerium	<0.01 mm3/L
Scenedesmus	0.06 mm3/L
Pediastrum	0.20 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	0.16 mm3/L
# Total Diatom Biovolume	1.53 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)

19/12/2022

Algae - Total	129000 cells/mL
Blue Green Algae - Total	122000 cells/mL
Diatoms - Total	1850 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	5620 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C



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Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/12/2022
Chlorophyll a	0.1	35.8 µg/L	
Phaeophytin a	0.1	25.4 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	41 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	53 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	30.2 µg/L	
# Nitrate + Nitrite as NO3	2.3	134 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		1.92 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO4	1.5	142.025 µg/L	
Phosphorus-Filterable Reactive as P	0.5	47.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.281 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	3.00 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	1.89 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	12.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022



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Analytical Results

Sampling Point	351213-EPA - Murray Mouth
Sampled Date	19/12/2022 12:00:00PM
Sample Received Date	20/12/2022 4:12:28PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9447
Status	Endorsed
Collection Type	Customer Collected

Total Organic Carbon T0158-07(ADEL)		22/12/2022
Total Organic Carbon	1	19.8 mg/L

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		81 mg/L	
Bicarbonate		99 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	361 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	200 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.0 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	87 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Suspended Solids T0160-01(ADEL)			21/12/2022
Suspended Solids	1.0	68 mg/L	



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Analytical Results

Sampling Point	353179-EPA - Tauwichee Barrage Upstream
Sampled Date	19/12/2022 1:18:00PM
Sample Received Date	20/12/2022 4:12:54PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9450
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

Other Organisms	100 cells/mL
Pseudodidymocystis	140 cells/mL
BLUE GREEN ALGAE	
Cyanodictyon	102000 cells/mL
Planktolynbya	31400 cells/mL
DIATOMS	
Aulacoseira	1280 cells/mL
Staurosira	2000 cells/mL
Fragilaria	910 cells/mL
Nitzschia	40 cells/mL
GREEN ALGAE	
Closterium	4 cells/mL
Closterium small_spp	4 cells/mL
Planctonema	3090 cells/mL
Crucigenia	520 cells/mL
Scenedesmus	300 cells/mL
Monoraphidium	140 cells/mL
Oocystis	420 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

19/12/2022

Pseudodidymocystis	<0.01 mm3/L
BLUE GREEN ALGAE	
Cyanodictyon	0.05 mm3/L
Planktolynbya	0.16 mm3/L
DIATOMS	
Aulacoseira	3.66 mm3/L
Staurosira	0.38 mm3/L
Fragilaria	0.58 mm3/L



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Analytical Results

Sampling Point	353179-EPA - Tauwichee Barrage Upstream
Sampled Date	19/12/2022 1:18:00PM
Sample Received Date	20/12/2022 4:12:54PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9450
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/12/2022

Nitzschia	0.06 mm3/L
GREEN ALGAE	
Closterium	0.02 mm3/L
Crucigenia	0.02 mm3/L
Scenedesmus	0.08 mm3/L
Monoraphidium	0.13 mm3/L
Oocystis	0.13 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	0.21 mm3/L
# Total Diatom Biovolume	4.68 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)

19/12/2022

Algae - Total	142000 cells/mL
Blue Green Algae - Total	133000 cells/mL
Diatoms - Total	4230 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	4480 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	46.6 µg/L
Phaeophytin a	0.1	28.3 µg/L



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Analytical Results

Sampling Point	353179-EPA - Tauwichee Barrage Upstream
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Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9450
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	17 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	74 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	26.4 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	117 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		2.83 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO ₄	1.5	77.74 µg/L	
Phosphorus-Filterable Reactive as P	0.5	26.0 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.378 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	2.68 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	2.80 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	13.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	23.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	353179-EPA - Tauwitschere Barrage Upstream
Sampled Date	19/12/2022 1:18:00PM
Sample Received Date	20/12/2022 4:12:54PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9450
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 12.0°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 21/12/2022

Alkalinity as Calcium Carbonate	81 mg/L
Bicarbonate	99 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 21/12/2022

Conductivity	2	460 µS/cm
Note		Conductivity measurement is corrected to 25°C
Total Dissolved Solids (by EC)	1	254 mg/L

pH T0010-01(ADEL) 21/12/2022

pH	7.7 pH units
Temperature at which pH is measured	23.0 °C

Turbidity T0018-01(ADEL) 21/12/2022

Turbidity	0.1	97 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Suspended Solids T0160-01(ADEL) 21/12/2022

Suspended Solids	1.0	108 mg/L
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Analytical Results

Sampling Point	353177-EPA - Tauwitschere Barrage DS
Sampled Date	19/12/2022 1:18:00PM
Sample Received Date	20/12/2022 4:12:41PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9451
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

Other Organisms	350 cells/mL
BLUE GREEN ALGAE	
Aphanizomenon	90 cells/mL
Cyanodictyon	146000 cells/mL
Cyanocatena	7300 cells/mL
Planktolynbya	29400 cells/mL
DIATOMS	
Cyclotella large_spp	10 cells/mL
Fragilaria	1150 cells/mL
Aulacoseira	800 cells/mL
Staurosira	1080 cells/mL
GREEN ALGAE	
Closterium	4 cells/mL
Closterium small_spp	12 cells/mL
Pediastrum	20 cells/mL
Planctonema	3580 cells/mL
Crucigenia	1040 cells/mL
Oocystis	290 cells/mL
Monoraphidium	80 cells/mL
Scenedesmus	400 cells/mL
Dictyosphaerium	80 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

19/12/2022

BLUE GREEN ALGAE	
Aphanizomenon	<0.01 mm3/L
Cyanodictyon	0.07 mm3/L
Cyanocatena	<0.01 mm3/L
Planktolynbya	0.15 mm3/L



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Analytical Results

Sampling Point	353177-EPA - Tauwichee Barrage DS
Sampled Date	19/12/2022 1:18:00PM
Sample Received Date	20/12/2022 4:12:41PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9451
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/12/2022

DIATOMS

Fragilaria	0.74 mm3/L
Aulacoseira	2.29 mm3/L
Staurosira	0.20 mm3/L

GREEN ALGAE

Closterium	0.02 mm3/L
Pediastrum	0.02 mm3/L
Crucigenia	0.03 mm3/L
Oocystis	0.09 mm3/L
Monoraphidium	0.07 mm3/L
Scenedesmus	0.10 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	0.22 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 12.0°C

Algal Count - Total T0393(ADEL)

19/12/2022

Algae - Total	191000 cells/mL
Blue Green Algae - Total	183000 cells/mL
Diatoms - Total	3040 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	5510 cells/mL
Toxin producing BGA - Total	0 cells/mL



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Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	31.1 µg/L
Phaeophytin a	0.1	16.8 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	69 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	61 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	14.4 µg/L	
# Nitrate + Nitrite as NO3	2.3	63.8 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		2.55 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO4	1.5	118.703 µg/L	
Phosphorus-Filterable Reactive as P	0.5	39.7 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.342 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	2.62 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	2.54 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	12.8 mg/L	



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Analytical Results

Sampling Point	353177-EPA - Tauwitschere Barrage DS
Sampled Date	19/12/2022 1:18:00PM
Sample Received Date	20/12/2022 4:12:41PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9451
Status	Endorsed
Collection Type	Customer Collected

Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	22.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		82 mg/L	
Bicarbonate		100 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/12/2022
Conductivity	2	375 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	207 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.0 pH units	
Temperature at which pH is measured		23.1 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	93 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Suspended Solids T0160-01(ADEL)			21/12/2022
Suspended Solids	1.0	113 mg/L	



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Analytical Results

Sampling Point	31522-EPA - Mark Point
Sampled Date	19/12/2022 2:00:00PM
Sample Received Date	20/12/2022 4:09:06PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9446
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

Other Organisms	160 cells/mL
BLUE GREEN ALGAE	
Cyanodictyon	12000 cells/mL
Cyanocatena	1800 cells/mL
Planktolyngbya	270 cells/mL
CRYPTOPHYTES	
Cryptomonas	70 cells/mL
DIATOMS	
Staurosira	60 cells/mL
Cyclotella small_spp	28200 cells/mL
GREEN ALGAE	
Planctonema	196 cells/mL
Monoraphidium	30 cells/mL
Oocystis	150 cells/mL
Dictyosphaerium	40 cells/mL
Crucigenia	360 cells/mL
Scenedesmus	80 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

19/12/2022

BLUE GREEN ALGAE	
Cyanodictyon	<0.01 mm3/L
Cyanocatena	<0.01 mm3/L
Planktolyngbya	<0.01 mm3/L
CRYPTOPHYTES	
Cryptomonas	0.08 mm3/L
DIATOMS	
Staurosira	0.01 mm3/L
Cyclotella small_spp	1.38 mm3/L



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Analytical Results

Sampling Point	31522-EPA - Mark Point
Sampled Date	19/12/2022 2:00:00PM
Sample Received Date	20/12/2022 4:09:06PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9446
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/12/2022

GREEN ALGAE

Monoraphidium	0.03 mm3/L
Oocystis	0.04 mm3/L
Dictyosphaerium	<0.01 mm3/L
Crucigenia	0.01 mm3/L
Scenedesmus	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	<0.03 mm3/L
# Total Diatom Biovolume	1.39 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)

19/12/2022

Algae - Total	43300 cells/mL
Blue Green Algae - Total	14100 cells/mL
Diatoms - Total	28300 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	856 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	29.2 µg/L
Phaeophytin a	0.1	5.89 µg/L



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Analytical Results

Sampling Point	31522-EPA - Mark Point
Sampled Date	19/12/2022 2:00:00PM
Sample Received Date	20/12/2022 4:09:06PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9446
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	16 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	1600 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	2.2 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	9.75 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		1.46 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO ₄	1.5	22.126 µg/L	
Phosphorus-Filterable Reactive as P	0.5	7.4 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.112 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	2.91 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	1.46 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	11.7 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	14.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31522-EPA - Mark Point
Sampled Date	19/12/2022 2:00:00PM
Sample Received Date	20/12/2022 4:09:06PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9446
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 12.0°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 21/12/2022

Alkalinity as Calcium Carbonate	88 mg/L
Bicarbonate	107 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

21/12/2022

Conductivity	2	5240 µS/cm
Note		Conductivity measurement is corrected to 25°C
Total Dissolved Solids (by EC)	1	2970 mg/L

pH T0010-01(ADEL)

21/12/2022

pH	7.9 pH units
Temperature at which pH is measured	21.8 °C

Turbidity T0018-01(ADEL)

21/12/2022

Turbidity	0.1	24 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Suspended Solids T0160-01(ADEL)

21/12/2022

Suspended Solids	1.0	<1 mg/L
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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/12/2022 2:55:00PM
Sample Received Date	20/12/2022 4:09:22PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9433
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Cryptomonas	160 cells/mL
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DIATOMS

Cyclotella small_spp	30 cells/mL
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DINOFLAGELLATES

Heterocapsa	6 cells/mL
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GREEN ALGAE

Monoraphidium	20 cells/mL
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Scenedesmus	40 cells/mL
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Planctonema	4 cells/mL
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Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

19/12/2022

CRYPTOPHYTES

Cryptomonas	0.17 mm3/L
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DIATOMS

Cyclotella small_spp	<0.01 mm3/L
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GREEN ALGAE

Monoraphidium	0.02 mm3/L
---------------	------------

Scenedesmus	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.
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# Total Algae Biovolume	Not Calculated mm3/L
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# Total Blue_Green Algae Biovolume	0.00 mm3/L
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# Total Diatom Biovolume	<0.01 mm3/L
--------------------------	-------------

# Total Green Algae Biovolume	Not Calculated mm3/L
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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/12/2022 2:55:00PM
Sample Received Date	20/12/2022 4:09:22PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9433
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

19/12/2022

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)

19/12/2022

Algae - Total	260 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	64 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	13.6 µg/L
Phaeophytin a	0.1	3.37 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	99 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	6500 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	4.3 µg/L	
# Nitrate + Nitrite as NO3	2.3	19.0 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		1.72 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO4	1.5	12.558 µg/L	
Phosphorus-Filterable Reactive as P	0.5	4.2 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/12/2022 2:55:00PM
Sample Received Date	20/12/2022 4:09:22PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9433
Status	Endorsed
Collection Type	Customer Collected

Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.063 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	3.44 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	1.72 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	11.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	12.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		108 mg/L	
Bicarbonate		132 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	19600 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	12000 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.1 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	8.4 NTU	



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	19/12/2022 2:55:00PM
Sample Received Date	20/12/2022 4:09:22PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9433
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Suspended Solids T0160-01(ADEL)			21/12/2022
Suspended Solids	1.0	<1 mg/L	



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Analytical Results

Sampling Point	53032-EPA - Nooneameena
Sampled Date	19/12/2022 3:40:00PM
Sample Received Date	20/12/2022 4:08:51PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9453
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

BLUE GREEN ALGAE

Cyanodictyon	160 cells/mL
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CRYPTOPHYTES

Cryptomonads	40 cells/mL
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Cryptomonas	250 cells/mL
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DIATOMS

Chaetoceros	10 cells/mL
-------------	-------------

GREEN ALGAE

Phytoflagellates	10 cells/mL
------------------	-------------

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

19/12/2022

BLUE GREEN ALGAE

Cyanodictyon	<0.01 mm3/L
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CRYPTOPHYTES

Cryptomonads	<0.01 mm3/L
--------------	-------------

Cryptomonas	0.27 mm3/L
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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
-------------------------	----------------------

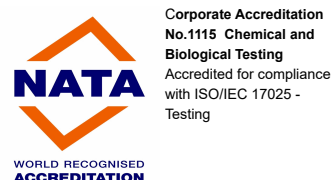
# Total Blue_Green Algae Biovolume	<0.01 mm3/L
------------------------------------	-------------

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

# Total Green Algae Biovolume	Not Calculated mm3/L
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Total Toxic BGA Biovolume	0.00 mm3/L
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Sample temperature at time of receipt 12.0°C





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Analytical Results

Sampling Point	53032-EPA - Nooneameena
Sampled Date	19/12/2022 3:40:00PM
Sample Received Date	20/12/2022 4:08:51PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9453
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

19/12/2022

Algae - Total	470 cells/mL
Blue Green Algae - Total	160 cells/mL
Diatoms - Total	10 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	10 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	3.32 µg/L
Phaeophytin a	0.1	0.80 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	10 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	16100 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	5.9 µg/L	
# Nitrate + Nitrite as NO3	2.3	26.1 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		1.78 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO4	1.5	7.774 µg/L	
Phosphorus-Filterable Reactive as P	0.5	2.6 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.098 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	1.79 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022



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Analytical Results

Sampling Point	53032-EPA - Nooanmeena
Sampled Date	19/12/2022 3:40:00PM
Sample Received Date	20/12/2022 4:08:51PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9453
Status	Endorsed
Collection Type	Customer Collected

TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	1.77 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	13.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	13.4 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		130 mg/L	
Bicarbonate		158 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	43300 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	29500 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.1 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	2.9 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			



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Analytical Results

Sampling Point	53032-EPA - Noona
Sampled Date	19/12/2022 3:40:00PM
Sample Received Date	20/12/2022 4:08:51PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9453
Status	Endorsed
Collection Type	Customer Collected

Suspended Solids T0160-01(ADEL)

21/12/2022

Suspended Solids	1.0	<1 mg/L
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Analytical Results

Sampling Point	31524-EPA - Bonneys
Sampled Date	19/12/2022 4:00:00PM
Sample Received Date	20/12/2022 4:09:36PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9448
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Cryptomonads 50 cells/mL

Cryptomonas 80 cells/mL

DIATOMS

Chaetoceros 20 cells/mL

GREEN ALGAE

Unicellular green algae 6530 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

19/12/2022

CRYPTOPHYTES

Cryptomonads 0.01 mm3/L

Cryptomonas 0.09 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 12.0°C

Algal Count - Total T0393(ADEL)

19/12/2022

Algae - Total 6680 cells/mL

Blue Green Algae - Total 0 cells/mL

Diatoms - Total 20 cells/mL



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Analytical Results

Sampling Point	31524-EPA - Bonneys
Sampled Date	19/12/2022 4:00:00PM
Sample Received Date	20/12/2022 4:09:36PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9448
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

19/12/2022

Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	6530 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	2.15 µg/L
Phaeophytin a	0.1	1.03 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	84 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	22400 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	13.0 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	57.6 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		2.47 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO ₄	1.5	9.568 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.2 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.082 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	1.28 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	2.46 mg/L	



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Analytical Results

Sampling Point	31524-EPA - Bonneys
Sampled Date	19/12/2022 4:00:00PM
Sample Received Date	20/12/2022 4:09:36PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9448
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	14.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	15.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		142 mg/L	
Bicarbonate		173 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	54600 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	39100 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.3 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	2.9 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Suspended Solids T0160-01(ADEL)			21/12/2022
Suspended Solids	1.0	<1 mg/L	



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/12/2022 4:25:00PM
Sample Received Date	20/12/2022 4:10:46PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9440
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Cryptomonads	20 cells/mL
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DIATOMS

PENNALES	30 cells/mL
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GREEN ALGAE

Chlorella	1250000 cells/mL
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Unicellular green algae	471000 cells/mL
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Phytoflagellates	3000 cells/mL
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Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

19/12/2022

CRYPTOPHYTES

Cryptomonads	<0.01 mm3/L
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DIATOMS

PENNALES	<0.01 mm3/L
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GREEN ALGAE

Chlorella	56.2 mm3/L
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# 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.
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# Total Algae Biovolume	Not Calculated mm3/L
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# Total Blue_Green Algae Biovolume	0.00 mm3/L
------------------------------------	------------

# Total Diatom Biovolume	<0.01 mm3/L
--------------------------	-------------

# Total Green Algae Biovolume	Not Calculated mm3/L
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Total Toxic BGA Biovolume	0.00 mm3/L
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Sample temperature at time of receipt 12.0°C



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/12/2022 4:25:00PM
Sample Received Date	20/12/2022 4:10:46PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9440
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

19/12/2022

Algae - Total	1720000 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	1720000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	33.1 µg/L
Phaeophytin a	0.1	9.90 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	74 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	31500 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	3.3 µg/L	
# Nitrate + Nitrite as NO3	2.3	14.6 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		3.79 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# 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)			28/12/2022
Phosphorus - Total	0.005	0.143 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	0.24 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022



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Analytical Results

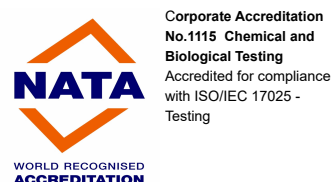
Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/12/2022 4:25:00PM
Sample Received Date	20/12/2022 4:10:46PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9440
Status	Endorsed
Collection Type	Customer Collected

TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	3.79 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	19.5 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	22.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		204 mg/L	
Bicarbonate		249 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	78800 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	62100 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.2 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	11 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			





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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	19/12/2022 4:25:00PM
Sample Received Date	20/12/2022 4:10:46PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9440
Status	Endorsed
Collection Type	Customer Collected

Suspended Solids T0160-01(ADEL)

21/12/2022

Suspended Solids	1.0	<1 mg/L
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Analytical Results

Sampling Point	31528-EPA - Salt Creek Outlet
Sampled Date	20/12/2022 8:05:00AM
Sample Received Date	20/12/2022 4:12:15PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9449
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DINOFLAGELLATES	
Glenodinium	50 cells/mL
GREEN ALGAE	
Unicellular green algae	640000 cells/mL
Chlorella	792000 cells/mL
Phytoflagellates	2800 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

DINOFLAGELLATES	
Glenodinium	0.05 mm3/L
GREEN ALGAE	
Chlorella	35.6 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 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	1430000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	0 cells/mL





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Analytical Results

Sampling Point	31528-EPA - Salt Creek Outlet
Sampled Date	20/12/2022 8:05:00AM
Sample Received Date	20/12/2022 4:12:15PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9449
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

20/12/2022

Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	1430000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	33.3 µg/L
Phaeophytin a	0.1	12.5 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	34 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	34300 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	6.8 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	30.1 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		3.93 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO ₄	1.5	<1.5 µg/L	
Phosphorus-Filterable Reactive as P	0.5	<0.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.166 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	4.64 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	3.92 mg/L	



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Analytical Results

Sampling Point	31528-EPA - Salt Creek Outlet
Sampled Date	20/12/2022 8:05:00AM
Sample Received Date	20/12/2022 4:12:15PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9449
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
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Dissolved Organic Carbon	1	18.6 mg/L	
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Total Organic Carbon T0158-07(ADEL)			22/12/2022
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Total Organic Carbon	1	23.2 mg/L	
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
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Alkalinity as Calcium Carbonate		219 mg/L	
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Bicarbonate		268 mg/L	
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Carbonate		0 mg/L	
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Hydroxide		0 mg/L	
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Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
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Conductivity	2	83800 µS/cm	
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Note		Conductivity measurement is corrected to 25°C	
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Total Dissolved Solids (by EC)	1	67300 mg/L	
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pH T0010-01(ADEL)			21/12/2022
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pH		8.2 pH units	
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Temperature at which pH is measured		23.0 °C	
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Turbidity T0018-01(ADEL)			21/12/2022
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Turbidity	0.1	9.3 NTU	
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Suspended Solids T0160-01(ADEL)			23/12/2022
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Suspended Solids	1.0	25 mg/L	
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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	20/12/2022 8:20:00AM
Sample Received Date	20/12/2022 4:10:34PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9437
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DINOFLAGELLATES

Heterocapsa	500 cells/mL
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GREEN ALGAE

Chlorella	224000 cells/mL
Unicellular green algae small_spp	349000 cells/mL
Phytoflagellates	54000 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

GREEN ALGAE

Chlorella	10.1 mm3/L
Unicellular green algae small_spp	4.92 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 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	628000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	0 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	20/12/2022 8:20:00AM
Sample Received Date	20/12/2022 4:10:34PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9437
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL) 20/12/2022

Green Algae - Total	627000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/12/2022

Chlorophyll a	0.1	23.5 µg/L
Phaeophytin a	0.1	6.45 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	58 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	40100 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	4.0 µg/L	
# Nitrate + Nitrite as NO3	2.3	17.7 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		4.15 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# 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)			28/12/2022
Phosphorus - Total	0.005	0.152 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	4.08 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	4.15 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	20/12/2022 8:20:00AM
Sample Received Date	20/12/2022 4:10:34PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9437
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 12.0°C

Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	20.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	24.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		207 mg/L	
Bicarbonate		252 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	95000 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	79500 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.1 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	8.4 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Suspended Solids T0160-01(ADEL)			23/12/2022
Suspended Solids	1.0	<1 mg/L	



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	20/12/2022 8:25:00AM
Sample Received Date	20/12/2022 4:11:25PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9438
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DIATOMS

Pennate diatoms small_spp	20600 cells/mL
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GREEN ALGAE

Chlorella	462000 cells/mL
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Phytoplankton	52300 cells/mL
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Unicellular green algae small_spp	593000 cells/mL
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Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

GREEN ALGAE

Chlorella	20.8 mm3/L
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Unicellular green algae small_spp	8.36 mm3/L
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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
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# 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 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	1130000 cells/mL
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Blue Green Algae - Total	0 cells/mL
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Diatoms - Total	20600 cells/mL
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Geosmin-MIB producing BGA - Total	0 cells/mL
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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	20/12/2022 8:25:00AM
Sample Received Date	20/12/2022 4:11:25PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9438
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL) 20/12/2022

Green Algae - Total	1110000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 20/12/2022

Chlorophyll a	0.1	44.8 µg/L
Phaeophytin a	0.1	13.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	43 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	35400 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	3.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	16.8 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		3.85 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# 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)			28/12/2022
Phosphorus - Total	0.005	0.146 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	3.96 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	3.85 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	20/12/2022 8:25:00AM
Sample Received Date	20/12/2022 4:11:25PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9438
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 12.0°C

Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	18.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	24.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 21/12/2022

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

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity	2	86100 µS/cm	21/12/2022
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	69700 mg/L	

pH T0010-01(ADEL)

pH		8.2 pH units	21/12/2022
Temperature at which pH is measured		23.0 °C	

Turbidity T0018-01(ADEL)

Turbidity	0.1	10 NTU	21/12/2022
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Suspended Solids T0160-01(ADEL) 23/12/2022

Suspended Solids	1.0	15 mg/L
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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	20/12/2022 8:39:00AM
Sample Received Date	20/12/2022 4:11:50PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9442
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DIATOMS

Synedra	350 cells/mL
Pennate diatoms	50 cells/mL
Navicula	50 cells/mL

GREEN ALGAE

Chodatella_(Lagerheimia)	100 cells/mL
Phytoflagellates	100 cells/mL
Oocystis sp_1_(small_cells)	3200 cells/mL
Chlorella	10100 cells/mL
Monoraphidium sp_2_(short)	5200 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

DIATOMS

Synedra	0.24 mm3/L
Navicula	0.06 mm3/L

GREEN ALGAE

Oocystis sp_1_(small_cells)	0.55 mm3/L
Chlorella	0.45 mm3/L
Monoraphidium sp_2_(short)	0.27 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



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	20/12/2022 8:39:00AM
Sample Received Date	20/12/2022 4:11:50PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9442
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

20/12/2022

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	19200 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	450 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	18700 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	3.78 µg/L
Phaeophytin a	0.1	1.52 µg/L

Inorganic Chemistry - Nutrients

LOR

Result

Test Start Date

Sample temperature at time of receipt 12.0°C

Ammonia as N (ADEL)

06/01/2023

# Ammonia as N	1	28 µg/L
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Chloride T0104-02(ADEL)

21/12/2022

Chloride	4.0	5240 mg/L
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Nitrate + Nitrite as N (ADEL)

06/01/2023

# Nitrate + Nitrite as N	0.5	3.6 µg/L
# Nitrate + Nitrite as NO3	2.3	15.9 µg/L

Nitrogen - Total TMZ-M06(ADEL)

20/12/2022

Nitrogen - Total		0.78 mg/L
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Phosphorus - Filterable Reactive as P (ADEL)

06/01/2023

# Phosphorus -Filterable Reactive as PO4	1.5	9.867 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.3 µg/L

Phosphorus - Total T0109-44(ADEL)

28/12/2022



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	20/12/2022 8:39:00AM
Sample Received Date	20/12/2022 4:11:50PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9442
Status	Endorsed
Collection Type	Customer Collected

Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.024 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	18.3 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	0.78 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	10.7 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	11.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		341 mg/L	
Bicarbonate		314 mg/L	
Carbonate		50 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	16700 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	10100 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.8 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	1.6 NTU	



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	20/12/2022 8:39:00AM
Sample Received Date	20/12/2022 4:11:50PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9442
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Suspended Solids T0160-01(ADEL)			28/12/2022
Suspended Solids	1.0	<1 mg/L	



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	20/12/2022 8:50:00AM
Sample Received Date	20/12/2022 4:11:12PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9435
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Cryptomonads	260 cells/mL
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DIATOMS

Pennate diatoms small_spp	3600 cells/mL
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DINOFLAGELLATES

Heterocapsa	4 cells/mL
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GREEN ALGAE

Phytoflagellates small_spp	700 cells/mL
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Chlorella	648000 cells/mL
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Monoraphidium sp_2_(short)	200 cells/mL
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Unicellular green algae	510000 cells/mL
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Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

CRYPTOPHYTES

Cryptomonads	0.06 mm3/L
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GREEN ALGAE

Phytoflagellates small_spp	0.05 mm3/L
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Chlorella	29.2 mm3/L
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Monoraphidium sp_2_(short)	0.01 mm3/L
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# 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.
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# Total Algae Biovolume	Not Calculated mm3/L
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# Total Blue_Green Algae Biovolume	0.00 mm3/L
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# Total Diatom Biovolume	Not Calculated mm3/L
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# Total Green Algae Biovolume	Not Calculated mm3/L
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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	20/12/2022 8:50:00AM
Sample Received Date	20/12/2022 4:11:12PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9435
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

20/12/2022

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	1160000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	3600 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	1160000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	48.3 µg/L
Phaeophytin a	0.1	14.3 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	35 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	35000 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# 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)			20/12/2022
Nitrogen - Total		3.83 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# 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)			28/12/2022



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	20/12/2022 8:50:00AM
Sample Received Date	20/12/2022 4:11:12PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9435
Status	Endorsed
Collection Type	Customer Collected

Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.166 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	3.99 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	3.83 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	18.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	23.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		214 mg/L	
Bicarbonate		262 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	86600 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	70300 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.1 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	10 NTU	



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	20/12/2022 8:50:00AM
Sample Received Date	20/12/2022 4:11:12PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9435
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Suspended Solids T0160-01(ADEL)			23/12/2022
Suspended Solids	1.0	20 mg/L	





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Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	20/12/2022 8:55:00AM
Sample Received Date	20/12/2022 4:11:37PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9441
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

BLUE GREEN ALGAE

Aphanocapsa 12000 cells/mL

DIATOMS

Synedra 9 cells/mL

GREEN ALGAE

Oocystis sp_1_(small_cells) 5000 cells/mL

Phytoflagellates 250 cells/mL

Monoraphidium sp_2_(short) 10000 cells/mL

Chlorella 171000 cells/mL

Chodatella_(Lagerheimia) 950 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

BLUE GREEN ALGAE

Aphanocapsa <0.01 mm3/L

DIATOMS

Synedra <0.01 mm3/L

GREEN ALGAE

Oocystis sp_1_(small_cells) 0.86 mm3/L

Monoraphidium sp_2_(short) 0.53 mm3/L

Chlorella 7.70 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

Total Diatom Biovolume <0.01 mm3/L



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Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	20/12/2022 8:55:00AM
Sample Received Date	20/12/2022 4:11:37PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9441
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

20/12/2022

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

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	199000 cells/mL
Blue Green Algae - Total	12000 cells/mL
Diatoms - Total	9 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	187000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	3.55 µg/L
Phaeophytin a	0.1	0.86 µg/L

Inorganic Chemistry - Nutrients

LOR

Result

Test Start Date

Sample temperature at time of receipt 12.0°C

Ammonia as N (ADEL)

06/01/2023

# Ammonia as N	1	25 µg/L
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Chloride T0104-02(ADEL)

21/12/2022

Chloride	4.0	5200 mg/L
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Nitrate + Nitrite as N (ADEL)

06/01/2023

# Nitrate + Nitrite as N	0.5	3.7 µg/L
# Nitrate + Nitrite as NO3	2.3	16.4 µg/L

Nitrogen - Total TMZ-M06(ADEL)

20/12/2022

Nitrogen - Total		1.16 mg/L
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Phosphorus - Filterable Reactive as P (ADEL)

06/01/2023

# Phosphorus -Filterable Reactive as PO4	1.5	8.97 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.0 µg/L



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Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	20/12/2022 8:55:00AM
Sample Received Date	20/12/2022 4:11:37PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9441
Status	Endorsed
Collection Type	Customer Collected

Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.024 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	18.5 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	1.16 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	11.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	12.0 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		341 mg/L	
Bicarbonate		318 mg/L	
Carbonate		48 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	16500 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	9920 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.8 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	1.8 NTU	



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Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	20/12/2022 8:55:00AM
Sample Received Date	20/12/2022 4:11:37PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9441
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Suspended Solids T0160-01(ADEL)			28/12/2022
Suspended Solids	1.0	<1 mg/L	



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Analytical Results

Sampling Point	531012-EPA - Sth Policeman Point
Sampled Date	20/12/2022 9:15:00AM
Sample Received Date	20/12/2022 4:10:05PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9452
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DIATOMS			
Pennate diatoms small_spp		26200 cells/mL	
DINOFLAGELLATES			
Heterocapsa		130 cells/mL	
GREEN ALGAE			
Chlorella		616000 cells/mL	
Unicellular green algae small_spp		506000 cells/mL	
Phytoflagellates small_spp		74100 cells/mL	
Phytoflagellates		1630 cells/mL	

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

GREEN ALGAE			
Chlorella		27.7 mm3/L	
Unicellular green algae small_spp		7.13 mm3/L	
Phytoflagellates small_spp		5.79 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 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022





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Analytical Results

Sampling Point	531012-EPA - Sth Policeman Point
Sampled Date	20/12/2022 9:15:00AM
Sample Received Date	20/12/2022 4:10:05PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9452
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	1220000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	26200 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	1200000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	53.5 µg/L
Phaeophytin a	0.1	15.9 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	48 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	42100 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	9.9 µg/L	
# Nitrate + Nitrite as NO3	2.3	43.9 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		4.01 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# 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)			28/12/2022
Phosphorus - Total	0.005	0.176 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	3.70 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022



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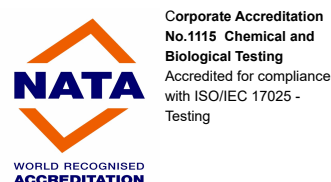
Sampling Point	531012-EPA - Sth Policeman Point
Sampled Date	20/12/2022 9:15:00AM
Sample Received Date	20/12/2022 4:10:05PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9452
Status	Endorsed
Collection Type	Customer Collected

TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	4.00 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	19.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	26.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		216 mg/L	
Bicarbonate		263 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	86800 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	70500 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.2 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	12 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			





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Analytical Results

Sampling Point	531012-EPA - Sth Policeman Point
Sampled Date	20/12/2022 9:15:00AM
Sample Received Date	20/12/2022 4:10:05PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9452
Status	Endorsed
Collection Type	Customer Collected

Suspended Solids T0160-01(ADEL)

28/12/2022

Suspended Solids	1.0	20 mg/L
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Analytical Results

Sampling Point	300712-Tilley Swamp Watercourse Outlet Channel
Sampled Date	20/12/2022 9:40:00AM
Sample Received Date	20/12/2022 4:10:08PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9445
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DIATOMS

Cyclotella	2500 cells/mL
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DINOFLAGELLATES

Oxyrrhis	22 cells/mL
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PERIDINIACEAE	2 cells/mL
---------------	------------

GREEN ALGAE

Monoraphidium sp_2_(short)	3100 cells/mL
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Oocystis sp_1_(small_cells)	200 cells/mL
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Chlamydomonas	250 cells/mL
---------------	--------------

Chlorella	12200 cells/mL
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Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

DIATOMS

Cyclotella	1.28 mm3/L
------------	------------

GREEN ALGAE

Monoraphidium sp_2_(short)	0.16 mm3/L
----------------------------	------------

Oocystis sp_1_(small_cells)	0.03 mm3/L
-----------------------------	------------

Chlamydomonas	0.06 mm3/L
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Chlorella	0.55 mm3/L
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# 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.
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# Total Algae Biovolume	2.08 mm3/L
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# Total Blue_Green Algae Biovolume	0.00 mm3/L
------------------------------------	------------

# Total Diatom Biovolume	1.28 mm3/L
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# Total Green Algae Biovolume	0.80 mm3/L
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Analytical Results

Sampling Point	300712-Tilley Swamp Watercourse Outlet Channel
Sampled Date	20/12/2022 9:40:00AM
Sample Received Date	20/12/2022 4:10:08PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9445
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)	20/12/2022
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)	20/12/2022
Algae - Total	18300 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	2500 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	15800 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)			20/12/2022
Chlorophyll a	0.1	1.98 µg/L	
Phaeophytin a	0.1	0.26 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	72 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	14000 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	5.0 µg/L	
# Nitrate + Nitrite as NO3	2.3	22.2 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		1.38 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO4	1.5	9.568 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.2 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022



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Analytical Results

Sampling Point	300712-Tilley Swamp Watercourse Outlet Channel
Sampled Date	20/12/2022 9:40:00AM
Sample Received Date	20/12/2022 4:10:08PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9445
Status	Endorsed
Collection Type	Customer Collected

Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.024 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	5.52 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	1.37 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	12.7 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	13.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		357 mg/L	
Bicarbonate		436 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	37200 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	24700 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.3 pH units	
Temperature at which pH is measured		23.4 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	2.0 NTU	



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Analytical Results

Sampling Point	300712-Tilley Swamp Watercourse Outlet Channel
Sampled Date	20/12/2022 9:40:00AM
Sample Received Date	20/12/2022 4:10:08PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9445
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Suspended Solids T0160-01(ADEL)			28/12/2022
Suspended Solids	1.0	<1 mg/L	



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	20/12/2022 9:45:00AM
Sample Received Date	20/12/2022 4:09:50PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9434
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DIATOMS			
Pennate diatoms small_spp		34900 cells/mL	
DINOFLAGELLATES			
Heterocapsa		120 cells/mL	
GREEN ALGAE			
Chlorella		1060000 cells/mL	
Unicellular green algae small_spp		709000 cells/mL	
Phytoflagellates small_spp		61000 cells/mL	
Phytoflagellates		1250 cells/mL	

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

GREEN ALGAE			
Chlorella		47.7 mm3/L	
Unicellular green algae small_spp		10.00 mm3/L	
Phytoflagellates small_spp		4.77 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 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022





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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	20/12/2022 9:45:00AM
Sample Received Date	20/12/2022 4:09:50PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9434
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	1870000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	34900 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	1830000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	76.2 µg/L
Phaeophytin a	0.1	23.8 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	30 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	34000 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	2.7 µg/L	
# Nitrate + Nitrite as NO3	2.3	12.0 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		4.30 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# 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)			28/12/2022
Phosphorus - Total	0.005	0.189 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	2.85 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	20/12/2022 9:45:00AM
Sample Received Date	20/12/2022 4:09:50PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9434
Status	Endorsed
Collection Type	Customer Collected

TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	4.30 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	18.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	28.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
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)			21/12/2022
Conductivity	2	82500 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	65900 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.2 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	16 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	20/12/2022 9:45:00AM
Sample Received Date	20/12/2022 4:09:50PM
Sample Analysis Completed	13/01/2023 10:42:17AM
Sample ID	*2022-009-9434
Status	Endorsed
Collection Type	Customer Collected

Suspended Solids T0160-01(ADEL)

23/12/2022

Suspended Solids	1.0	45 mg/L
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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	20/12/2022 9:53:00AM
Sample Received Date	20/12/2022 4:10:21PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9443
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DIATOMS

Synedra	6 cells/mL
Cyclotella	1500 cells/mL

DINOFLAGELLATES

PERIDINIACEAE	2 cells/mL
Oxyrrhis	2 cells/mL

GREEN ALGAE

Phytoflagellates	1200 cells/mL
Chlorella	8400 cells/mL
Unicellular green algae	6800 cells/mL
Oocystis sp_1_(small_cells)	200 cells/mL
Monoraphidium sp_2_(short)	800 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

DIATOMS

Synedra	<0.01 mm3/L
Cyclotella	0.76 mm3/L

GREEN ALGAE

Chlorella	0.38 mm3/L
Oocystis sp_1_(small_cells)	0.03 mm3/L
Monoraphidium sp_2_(short)	0.04 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



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	20/12/2022 9:53:00AM
Sample Received Date	20/12/2022 4:10:21PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9443
Status	Endorsed
Collection Type	Customer Collected

Algal Biovolume T0393(ADEL)

20/12/2022

# Total Diatom Biovolume	0.76 mm3/L
# Total Green Algae Biovolume	Not Calculated mm3/L
Total Toxic BGA Biovolume	0.00 mm3/L

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	18900 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	1510 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	17400 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	1.75 µg/L
Phaeophytin a	0.1	<0.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	82 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	14300 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# 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)			20/12/2022
Nitrogen - Total		1.39 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# Phosphorus -Filterable Reactive as PO4	1.5	8.372 µg/L	



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	20/12/2022 9:53:00AM
Sample Received Date	20/12/2022 4:10:21PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9443
Status	Endorsed
Collection Type	Customer Collected

Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
Phosphorus-Filterable Reactive as P	0.5	2.8 µg/L	
Phosphorus - Total T0109-44(ADEL)			28/12/2022
Phosphorus - Total	0.005	0.022 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	5.23 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	1.38 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	13.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	13.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		349 mg/L	
Bicarbonate		426 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	37700 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	25100 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.2 pH units	
Temperature at which pH is measured		23.0 °C	



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	20/12/2022 9:53:00AM
Sample Received Date	20/12/2022 4:10:21PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9443
Status	Endorsed
Collection Type	Customer Collected

Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	2.1 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<hr/>			
<i>Sample temperature at time of receipt 12.0°C</i>			
Suspended Solids T0160-01(ADEL)			28/12/2022
Suspended Solids	1.0	<1 mg/L	



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	20/12/2022 10:25:00AM
Sample Received Date	20/12/2022 4:10:20PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9439
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DIATOMS			
Gyrosigma		2 cells/mL	
Nitzschia		4 cells/mL	
Pennate diatoms small_spp		6540 cells/mL	
GREEN ALGAE			
Chlorella		571000 cells/mL	
Unicellular green algae small_spp		475000 cells/mL	
Phytoflagellates small_spp		30500 cells/mL	
Phytoflagellates		140 cells/mL	

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

DIATOMS			
Gyrosigma		<0.01 mm3/L	
Nitzschia		<0.01 mm3/L	
GREEN ALGAE			
Chlorella		25.7 mm3/L	
Unicellular green algae small_spp		6.70 mm3/L	
Phytoflagellates small_spp		2.39 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





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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	20/12/2022 10:25:00AM
Sample Received Date	20/12/2022 4:10:20PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9439
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	1080000 cells/mL
Blue Green Algae - Total	0 cells/mL
Diatoms - Total	6550 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	1080000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	80.0 µg/L
Phaeophytin a	0.1	28.7 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	38 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	31700 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	3.2 µg/L	
# Nitrate + Nitrite as NO3	2.3	14.2 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		4.49 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# 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)			28/12/2022
Phosphorus - Total	0.005	0.184 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	20/12/2022 10:25:00AM
Sample Received Date	20/12/2022 4:10:20PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9439
Status	Endorsed
Collection Type	Customer Collected

Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	2.16 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	4.49 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	18.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	27.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		219 mg/L	
Bicarbonate		267 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	80300 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	63600 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.3 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	19 NTU	



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	20/12/2022 10:25:00AM
Sample Received Date	20/12/2022 4:10:20PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9439
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<hr/>			
<i>Sample temperature at time of receipt 12.0°C</i>			
Suspended Solids T0160-01(ADEL)			23/12/2022
Suspended Solids	1.0	<1 mg/L	



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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	20/12/2022 10:50:00AM
Sample Received Date	20/12/2022 4:12:03PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9432
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DIATOMS

Pennate diatoms small_spp	22500 cells/mL
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GREEN ALGAE

Chlorella	756000 cells/mL
Unicellular green algae small_spp	412000 cells/mL
Phytoflagellates small_spp	19600 cells/mL
Phytoflagellates	450 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

GREEN ALGAE

Chlorella	34.0 mm3/L
Unicellular green algae small_spp	5.81 mm3/L
Phytoflagellates small_spp	1.53 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 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	1210000 cells/mL
Blue Green Algae - Total	0 cells/mL



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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	20/12/2022 10:50:00AM
Sample Received Date	20/12/2022 4:12:03PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9432
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)

20/12/2022

Diatoms - Total	22500 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	1190000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

20/12/2022

Chlorophyll a	0.1	20.5 µg/L
Phaeophytin a	0.1	7.17 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	43 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	30400 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# Nitrate + Nitrite as N	0.5	16.4 µg/L	
# Nitrate + Nitrite as NO3	2.3	72.7 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			20/12/2022
Nitrogen - Total		3.58 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# 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)			28/12/2022
Phosphorus - Total	0.005	0.135 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	0.49 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	3.56 mg/L	



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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	20/12/2022 10:50:00AM
Sample Received Date	20/12/2022 4:12:03PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9432
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
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Dissolved Organic Carbon	1	17.9 mg/L
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Total Organic Carbon T0158-07(ADEL)			22/12/2022
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Total Organic Carbon	1	22.2 mg/L
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
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Alkalinity as Calcium Carbonate		200 mg/L
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Bicarbonate		244 mg/L
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Carbonate		0 mg/L
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Hydroxide		0 mg/L
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Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
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Conductivity	2	76800 µS/cm
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Note		Conductivity measurement is corrected to 25°C
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Total Dissolved Solids (by EC)	1	60100 mg/L
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pH T0010-01(ADEL)			21/12/2022
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pH		8.2 pH units
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Temperature at which pH is measured		23.2 °C
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Turbidity T0018-01(ADEL)			21/12/2022
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Turbidity	0.1	12 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Suspended Solids T0160-01(ADEL)			23/12/2022
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Suspended Solids	1.0	15 mg/L
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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	20/12/2022 11:40:00AM
Sample Received Date	20/12/2022 4:11:01PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9436
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 12.0°C

Algal Identification T0393(ADEL)

DIATOMS

Synedra	2 cells/mL
Chaetoceros	30 cells/mL

GREEN ALGAE

Chlorella	562000 cells/mL
Unicellular green algae	235000 cells/mL
Phytoflagellates	2750 cells/mL

Sample temperature at time of receipt 12.0°C

Algal Biovolume T0393(ADEL)

20/12/2022

DIATOMS

Synedra	<0.01 mm3/L
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GREEN ALGAE

Chlorella	25.3 mm3/L
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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 12.0°C

Algal Count - Total T0393(ADEL)

20/12/2022

Algae - Total	800000 cells/mL
Blue Green Algae - Total	0 cells/mL



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	20/12/2022 11:40:00AM
Sample Received Date	20/12/2022 4:11:01PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9436
Status	Endorsed
Collection Type	Customer Collected

Algal Count - Total T0393(ADEL)	20/12/2022
Diatoms - Total	32 cells/mL
Geosmin-MIB producing BGA - Total	0 cells/mL
Green Algae - Total	800000 cells/mL
Toxin producing BGA - Total	0 cells/mL

Sample temperature at time of receipt 12.0°C	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)	20/12/2022
Chlorophyll a	0.1 19.3 µg/L
Phaeophytin a	0.1 7.46 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 12.0°C			
Ammonia as N (ADEL)			06/01/2023
# Ammonia as N	1	28 µg/L	
Chloride T0104-02(ADEL)			21/12/2022
Chloride	4.0	25300 mg/L	
Nitrate + Nitrite as N (ADEL)			06/01/2023
# 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)			20/12/2022
Nitrogen - Total		2.74 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			06/01/2023
# 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)			28/12/2022
Phosphorus - Total	0.005	0.090 mg/L	
Silica - Reactive T0111-01(ADEL)			21/12/2022
Silica - Reactive	0.05	0.50 mg/L	
TKN as N T0112-01(ADEL)			28/12/2022
TKN as Nitrogen	0.05	2.74 mg/L	



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	20/12/2022 11:40:00AM
Sample Received Date	20/12/2022 4:11:01PM
Sample Analysis Completed	13/01/2023 10:41:59AM
Sample ID	*2022-009-9436
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/12/2022
Dissolved Organic Carbon	1	16.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/12/2022
Total Organic Carbon	1	19.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			21/12/2022
Alkalinity as Calcium Carbonate		176 mg/L	
Bicarbonate		215 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			21/12/2022
Conductivity	2	67600 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	51000 mg/L	
pH T0010-01(ADEL)			21/12/2022
pH		8.2 pH units	
Temperature at which pH is measured		23.2 °C	
Turbidity T0018-01(ADEL)			21/12/2022
Turbidity	0.1	7.6 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 12.0°C</i>			
Suspended Solids T0160-01(ADEL)			23/12/2022
Suspended Solids	1.0	20 mg/L	



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AWQC Signatories

Dzung Bui - Supervisor Metals and Physical
Thuy Diep - Technical Officer Chemistry
Andrew Ford - Acting Method Development Specialist
Sharon Helgeson - Technical Officer Life Sciences
Kerrie Jooste - Manager Chemistry Services
Chami Karunatilaka - Technical Officer Chemistry
John Martini - Method Development Specialist
Dean Newman - Senior Technical Officer Biology
Melissa Phillips - Technical Officer Chemistry
Gayle Polley - Supervisor Nutrients and Waste
Lyudmila Tsybmal - Technical Officer Life Sciences



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-009-9432	31525	EPA - Villa de Yumpa	20/12/2022	pH	Test not processed within holding time
2022-009-9432	31525	EPA - Villa de Yumpa	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9433	31523	EPA - Long Point	19/12/2022	pH	Test not processed within holding time
2022-009-9433	31523	EPA - Long Point	19/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9434	31526	EPA - Nth Jack Point	20/12/2022	pH	Test not processed within holding time
2022-009-9434	31526	EPA - Nth Jack Point	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9435	31515	EPA - Snipe Point	20/12/2022	pH	Test not processed within holding time
2022-009-9435	31515	EPA - Snipe Point	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9436	31513	EPA - Parnka Point Boat Ramp	20/12/2022	pH	Test not processed within holding time
2022-009-9436	31513	EPA - Parnka Point Boat Ramp	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9437	31511	EPA - 3.2km South Salt Creek	20/12/2022	pH	Test not processed within holding time
2022-009-9437	31511	EPA - 3.2km South Salt Creek	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9438	31517	EPA - 1.8km West Salt Creek	20/12/2022	pH	Test not processed within holding time
2022-009-9438	31517	EPA - 1.8km West Salt Creek	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9439	31514	EPA - Stoney Well	20/12/2022	pH	Test not processed within holding time
2022-009-9439	31514	EPA - Stoney Well	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9440	31512	EPA - McGrath Flat North	19/12/2022	pH	Test not processed within holding time
2022-009-9440	31512	EPA - McGrath Flat North	19/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9441	31519	EPA - Morella Basin at Outlet Regulator	20/12/2022	pH	Test not processed within holding time
2022-009-9441	31519	EPA - Morella Basin at Outlet Regulator	20/12/2022	Silica - Reactive	Test not processed within holding time



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-009-9441	31519	EPA - Morella Basin at Outlet Regulator	20/12/2022	Suspended Solids	Test not processed within holding time
2022-009-9442	315191	EPA - Morella Creek @ guage	20/12/2022	pH	Test not processed within holding time
2022-009-9442	315191	EPA - Morella Creek @ guage	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9442	315191	EPA - Morella Creek @ guage	20/12/2022	Suspended Solids	Test not processed within holding time
2022-009-9443	300713	Tilley Swamp Drain D/S Northern Outlet	20/12/2022	pH	Test not processed within holding time
2022-009-9443	300713	Tilley Swamp Drain D/S Northern Outlet	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9443	300713	Tilley Swamp Drain D/S Northern Outlet	20/12/2022	Suspended Solids	Test not processed within holding time
2022-009-9445	300712	Tilley Swamp Watercourse Outlet Channel	20/12/2022	pH	Test not processed within holding time
2022-009-9445	300712	Tilley Swamp Watercourse Outlet Channel	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9445	300712	Tilley Swamp Watercourse Outlet Channel	20/12/2022	Suspended Solids	Test not processed within holding time
2022-009-9446	31522	EPA - Mark Point	19/12/2022	pH	Test not processed within holding time
2022-009-9446	31522	EPA - Mark Point	19/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9447	351213	EPA - Murray Mouth	19/12/2022	pH	Test not processed within holding time
2022-009-9447	351213	EPA - Murray Mouth	19/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9448	31524	EPA - Bonneys	19/12/2022	pH	Test not processed within holding time
2022-009-9448	31524	EPA - Bonneys	19/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9449	31528	EPA - Salt Creek Outlet	20/12/2022	pH	Test not processed within holding time
2022-009-9449	31528	EPA - Salt Creek Outlet	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9450	353179	EPA - Tauwichee Barrage Upstream	19/12/2022	pH	Test not processed within holding time
2022-009-9450	353179	EPA - Tauwichee Barrage Upstream	19/12/2022	Silica - Reactive	Test not processed within holding time



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-009-9451	353177	EPA - Tauwichee Barrage DS	19/12/2022	pH	Test not processed within holding time
2022-009-9451	353177	EPA - Tauwichee Barrage DS	19/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9452	531012	EPA - Sth Policeman Point	20/12/2022	pH	Test not processed within holding time
2022-009-9452	531012	EPA - Sth Policeman Point	20/12/2022	Silica - Reactive	Test not processed within holding time
2022-009-9452	531012	EPA - Sth Policeman Point	20/12/2022	Suspended Solids	Test not processed within holding time
2022-009-9453	53032	EPA - Noonameena	19/12/2022	pH	Test not processed within holding time
2022-009-9453	53032	EPA - Noonameena	19/12/2022	Silica - Reactive	Test not processed within holding time

Samples Not Collected

Sample ID	S.Point	Description	Sampled Date	Non Collect Reason
2022-009-9444	300711	Tilley Swamp Drain U/S Morella	14/12/2022	Water too high

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
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0109-44	Phosphorous -total Kjeldahl for seawater by automated flow colorimetry	AP4500PF
T0111-01	Silica by automated flow colorimetry	AP4500SI02
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T0158-07	Total and Dissolved Organic Carbon (OI Analytical)	SM5310C
T0160-01	Suspended Solids 103C to 105C	AP4500
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



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Laboratory Information

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



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- Notes
1. The last figure of the result value is a significant figure.
 2. # determination of the component is not covered by NATA Accreditation.
 3. ^ indicates result is out of specification according to the reference guideline. Refer to report footer.
 4. * indicates an incident has been recorded against the sample. Refer to report footer.
 5. & Indicates the results have changed since the last issued report.
 6. 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.