

Page 1 of 2

Report no: 299499 Depth: N/A

Supercedes Report No: 299420 Chlorophyll a: NA

> Microcystin equivalents: NA

15/02/2024 Date analysed:

Lims No: L24009297 Date Sampled: 6/12/2023 Analyst:

Client ID: 24

Address:

Site:

Client: **Department of Planning and Environment** 

Method: **MA71CENT** Issued By Disclaimer: Samples analysed as

Commercial Client Representative

Issued On: 19/02/2024

received.

TAXA

Cells/ **Significance** ASU/ Biovolum mL mm3/L mL

# Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	164617	Filter clogging?	312.77	0.074
Dolichospermum	816	Potentially toxic, taste & odour	74.58	0.132
Dolichospermum affine	544		22.14	0.025
Merismopedia	28906		28.90	0.243
Myxobaktron	544		9.57	0.002
Planktolyngbya	5716	Filter clogging	47.44	0.013
Pseudanabaena	3811		30.48	0.038
Romeria	1361		21.77	0.008
Subtotal	206315		547.65	0.535

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	206300	547.70	0.535
* Potentially Toxic Blue Green	816	74.60	0.132

#### **Comment:**

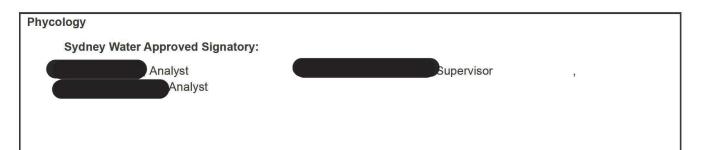
#### Debris present in the sample.

ASU: One ASU (Area Standard Unit) equals 400 µm² of algal cells (as cross sectional area)

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece

<sup>\*</sup>Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



Page 1 of 2

Report no: 299499 Depth: N/A

Supercedes Report No: 299420 Chlorophyll a: NA

> Microcystin equivalents: NA

15/02/2024 Date analysed:

Lims No: L24009299 Date Sampled: 6/12/2023 Analyst:

Client ID: 26 Address:

Site:

Client: **Department of Planning and Environment** 

Method: **MA71CENT** Issued By !

Commercial Client Representative

Issued On: 19/02/2024

Disclaimer: Samples analysed as

received.

TAXA

Cells/ **Significance** ASU/ Biovolum mL mm3/L mL

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	217694	Filter clogging?	413.61	0.098
Dolichospermum	544	Potentially toxic, taste & odour	49.72	0.088
Dolichospermum affine	8924		363.20	0.414
Planktolyngbya	11160	Filter clogging	92.62	0.026
Subtotal	238322		919.15	0.626

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	238300	919.20	0.626
* Potentially Toxic Blue Green	544	49.70	0.088

#### Comment:

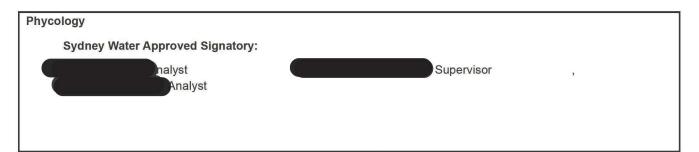
Debris present in the sample.

ASU: One ASU (Area Standard Unit) equals 400 µm² of algal cells (as cross sectional area)

Biovolume: Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece

<sup>\*</sup>Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



299499

Depth: N/A

Supercedes Report No: 299420 Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 15/02/2024

Page 1 of 2

Lims No: L24009301 Date Sampled: 6/12/2023 Analyst:

Client ID: 28

Address:

Report no:

Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By Disclaimer: Sa

Commercial Client Representative

Issued On: 19/02/2024

Disclaimer: Samples analysed as

received.

TAXA

 $\begin{array}{cccc} Cells/ & Significance & ASU/ & Biovolum \\ mL & mL & mm3/L \end{array}$ 

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	274199	Filter clogging?	520.97	0.123
Cuspidothrix issatschenkoi	816		41.61	0.044
Dolichospermum	1359	Potentially toxic, taste & odour	124.21	0.220
Merismopedia	13065		13.06	0.110
Non toxic Aphanizomenonaceae - coiled	1699	Taste & Odour	55.89	0.058
Sphaerospermopsis aphanizomenoides	5573		167.19	0.209
Subtotal	296711		922.93	0.764

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	296700	922.90	0.764
* Potentially Toxic Blue Green	1360	124.20	0.220

#### Comment:

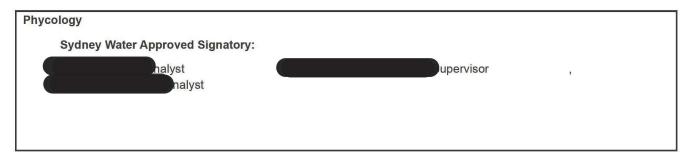
# Debris present in the sample.

ASU : One ASU (Area Standard Unit) equals  $400\mu m^2$  of algal cells (as cross sectional area)

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece; Cyanodictyon

<sup>\*</sup>Taxa with potential to produce toxins.





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Accreditation No.: 610 Biological testing



299499

Depth: N/A

Supercedes Report No: 299420 Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 18/02/2024

Lims No: L24009303 Date Sampled: 6/12/2023 Analyst:

Client ID: 30

Address:

Report no:

Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By

Commercial Client Representative

Issued On: 19/02/2024

Disclaimer: Samples analysed as

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TAXA

Cells/ mL **Significance** 

ASU/ mL Biovolum mm3/L

Page 1 of 2

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	500603	Filter clogging?	951.14	0.226
Dolichospermum	7279	Potentially toxic, taste & odour	665.30	1.180
Merismopedia	6968		6.96	0.058
Planktolyngbya	12194	Filter clogging	101.21	0.029
Pseudanabaena	1767		14.13	0.017
Synechococcus cf	871		10.71	0.005
Subtotal	529682		1 749 45	1 515

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	529700	1749.00	1.520
* Potentially Toxic Blue Green	7280	665.30	1.180

#### Comment:

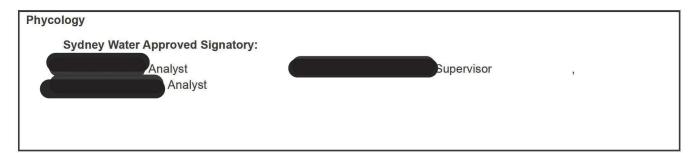
# Debris present in the sample.

ASU: One ASU (Area Standard Unit) equals 400 µm² of algal cells (as cross sectional area)

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece; Cyanodictyon

<sup>\*</sup>Taxa with potential to produce toxins.





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Accreditation No.: 610 Biological testing



299499

Depth: N/A

Supercedes Report No: 299420 Chlorophyll a: NA

> Microcystin equivalents: NA

18/02/2024 Date analysed:

Page 1 of 2

Analyst: Lims No: L24009305 Date Sampled: 6/12/2023

Report no:

Client ID: 32

Address:

Site:

Client: **Department of Planning and Environment** 

Method: **MA71CENT** Issued By

Commercial Client Representative

Issued On: 19/02/2024

Disclaimer: Samples analysed as

received.

TAXA

Cells/ **Significance** ASU/ Biovolum mL mm3/L mL

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	222920	Filter clogging?	423.54	0.100
Cuspidothrix issatschenkoi	3266		166.56	0.177
Dolichospermum	5159	Potentially toxic, taste & odour	471.53	0.836
Merismopedia	2177		2.17	0.018
Non toxic Aphanizomenonaceae - coiled	3534	Taste & Odour	116.26	0.122
Non toxic Aphanizomenonaceae - Straight	7594	Taste & Odour	311.35	0.337
Subtotal	244650		1,491.41	1.590

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	244700	1491.00	1.590
* Potentially Toxic Blue Green	5160	471.50	0.836

#### Comment:

Debris present in the sample.

ASU: One ASU (Area Standard Unit) equals 400 µm² of algal cells (as cross sectional area)

Biovolume: Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece ; Cyanodictyon

<sup>\*</sup>Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



299499

Depth: N/A

Supercedes Report No: 299420 Chlorophyll a: NA

> Microcystin equivalents: NA

18/02/2024 Date analysed:

Page 1 of 2

Lims No: L24009307 Date Sampled: 6/12/2023 Analyst:

Client ID: 34

Address:

Report no:

Site:

Client: **Department of Planning and Environment** 

Method: **MA71CENT** Issued By Disclaimer: Samples analysed as

Commercial Client Representative

Issued On: 19/02/2024

received.

TAXA

Cells/ **Significance** ASU/ Biovolum mL mm3/L mL

### Cyanophyta (Blue green)

Anabaenopsis	1087	Potentially toxic	75.00	0.128
Coccoid Blue Green Picoplankton	816773	Filter clogging?	1,551.86	0.368
Dolichospermum affine	7068		287.66	0.328
Glaucospira sp.	8129		0.00	0.000
Merismopedia	74905		74.90	0.630
Myxobaktron	2177		38.31	0.010
Non toxic Aphanizomenonaceae - coiled	952	Taste & Odour	31.32	0.032
Non toxic Aphanizomenonaceae - Straight	680	Taste & Odour	27.88	0.030
Planktolyngbya	15242	Filter clogging	126.50	0.036
Pseudanabaena	22646		181.16	0.226
Romeria	5807		92.91	0.037
Sphaerospermopsis aphanizomenoides	2447		73.41	0.092
Subtotal	957913		2,560.91	1.917

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	957900	2561.00	1.920
* Potentially Toxic Blue Green	1090	75.00	0.128

#### **Comment:**

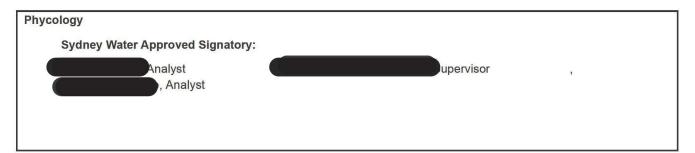
Debris present in the sample.

ASU: One ASU (Area Standard Unit) equals 400 µm² of algal cells (as cross sectional area)

Biovolume: Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece

<sup>\*</sup>Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



Page 1 of 2

Report no: 299499 Depth: N/A

Supercedes Report No: 299420 Chlorophyll a: NA

> Microcystin equivalents: NA

18/02/2024 Date analysed:

Lims No: L24009308 Date Sampled: 6/12/2023 Analyst:

Client ID: 35 Address:

Site:

Client: **Department of Planning and Environment** 

Method: **MA71CENT** Issued By Disclaimer: Samples analysed as

**Commercial Client Representative** 

Issued On: 19/02/2024

received.

TAXA

Cells/ **Significance** ASU/ Biovolum mL mm3/L mL

# Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	329044	Filter clogging?	625.18	0.148
Glaucospira sp.	544		0.00	0.000
Merismopedia	1089		1.08	0.009
Myxobaktron	1960		34.49	0.009
Planktolyngbya	3266	Filter clogging	27.10	0.007
Pseudanabaena	5444		43.55	0.054
Sphaerospermopsis aphanizomenoides	1903		57.09	0.071
Synechococcus cf	544		6.69	0.003
Subtotal	343794		795.18	0.301

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	343800	795.20	0.301
* Potentially Toxic Blue Green	0	0.00	0.000

#### **Comment:**

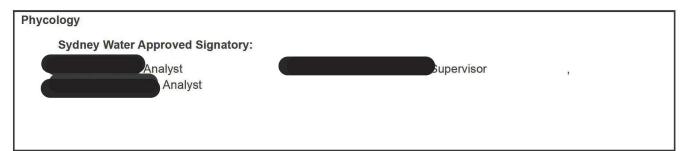
#### Debris present in the sample.

ASU: One ASU (Area Standard Unit) equals 400 µm² of algal cells (as cross sectional area)

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece

<sup>\*</sup>Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



Page 1 of 2

Report no: 299499 Depth: N/A

Supercedes Report No: 299420 Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 18/02/2024

Lims No: L24009309 Date Sampled: 6/12/2023 Analyst:

Client ID: 36

Site:

Client:

Address:

**Department of Planning and Environment** 

Method: MA71CENT Issued By

Commercial Client Representative

Issued On: 19/02/2024

Disclaimer: Samples analysed as

received.

TAXA

 $\begin{array}{cccc} Cells/ & Significance & ASU/ & Biovolum \\ mL & mL & mm3/L \end{array}$ 

# Cyanophyta (Blue green)

Anabaenopsis	408	Potentially toxic	28.15	0.048
Coccoid Blue Green Picoplankton	287427	Filter clogging?	546.11	0.129
Dolichospermum	2175	Potentially toxic, taste & odour	198.79	0.352
Dolichospermum circinale	1359	Potentially toxic, taste & odour	118.09	0.236
Non toxic Aphanizomenonaceae - coiled	12784	Taste & Odour	420.59	0.442
Non toxic Aphanizomenonaceae - Straight	13702	Taste & Odour	561.78	0.609
Sphaerospermopsis reniformis	4078	Taste & Odour	163.52	0.189
Subtotal	321933		2.037.03	2.005

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	321900	2037.00	2.010
* Potentially Toxic Blue Green	3940	345.00	0.636

### **Comment:**

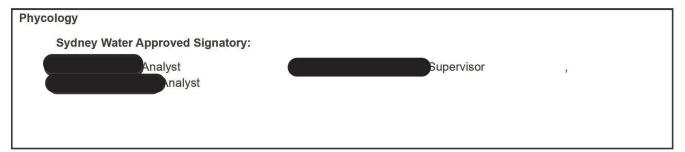
# Debris present in the sample.

ASU : One ASU (Area Standard Unit) equals 400 µm² of algal cells (as cross sectional area)

Biovolume: Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece

<sup>\*</sup>Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing