

REPORT

Report no: 285354

Depth : N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 29/05/2023

Lims No: L23040745

Date Sampled: 11/05/2023

Analyst: [REDACTED]

Client ID: 233279

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water

Laboratory Services

Issued On : 30/05/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anagnostidinema</i>	14933		450.97	0.263
<i>Cocoid Blue Green Picoplankton</i>	182734	Filter clogging?	347.19	0.082
<i>Merismopedia</i>	4425		4.42	0.037
<i>Non toxic Aphanizomenonaceae</i>	1665	Taste & Odour	68.26	0.074
<i>Planktolyngbya</i>	30419	Filter clogging	304.19	2.433
<i>Pseudanabaena</i>	108402		867.21	1.084
<i>Raphidiopsis</i>	2212		133.38	0.149
<i>Raphidiopsis raciborskii</i>	4425	Potentially toxic, taste & odour	167.26	0.129
<i>Sphaerospermopsis aphanizomenoides</i>	1388		41.64	0.052
Subtotal	350603		2,384.52	4.303

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	350600	2385.00	4.300
* Potentially Toxic Blue Green	4430	167.30	0.129

Comment:

Debris present in the sample.

*Taxa with potential to produce toxins.

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

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

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

Phycology

Sydney Water Approved Signatory:

██████████, Analyst

██████████, Supervisor



Where a result is required to meet a compliance limit or specification the associated uncertainty must be considered. Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing
Accredited for compliance with ISO/IEC 17025

REPORT

Report no: 285354 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 29/05/2023
 Analyst: ██████████

Lims No: L23040747 Date Sampled: 11/05/2023

Client ID: 233286 Address: ██████████
 Site: ██████████

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Disclaimer: Samples analysed as received.
 Laboratory Services
 Issued On : 30/05/2023

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaenopsis</i>	659	Potentially toxic	45.47	0.078
<i>Anagnostidinema</i>	2877		86.88	0.050
<i>Cocoid Blue Green Picoplankton</i>	849073	Filter clogging?	1,613.23	0.383
<i>Cuspidothrix issatschenkoi</i>	3715		189.46	0.201
<i>Dolichospermum affine</i>	989		40.25	0.045
<i>Merismopedia</i>	2212		2.21	0.018
<i>Non toxic Aphanizomenonaceae</i>	2581	Taste & Odour	105.82	0.114
<i>Planktolyngbya</i>	27709	Filter clogging	277.09	2.216
<i>Pseudanabaena</i>	63714		509.71	0.637
<i>Raphidiopsis</i>	330		19.89	0.022
<i>Raphidiopsis raciborskii</i>	4104	Potentially toxic, taste & odour	155.13	0.120
<i>Sphaerospermopsis aphanizomenoides</i>	1129		33.87	0.042
<i>Sphaerospermopsis reniformis</i>	347	Taste & Odour	13.91	0.016
<i>Synechococcus cf</i>	2212		27.20	0.014
Subtotal	961651		3,120.12	3.956

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	961700	3120.00	3.960
* Potentially Toxic Blue Green	4760	200.60	0.198

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

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 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 29/05/2023
 Analyst: ██████████

Lims No: L23040749 Date Sampled: 11/05/2023

Client ID: 233293

Address: ██████████

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water
 Laboratory Services
 Issued On : 30/05/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anagnostidinema</i>	17145		517.77	0.302
<i>Aphanizomenonaceae</i>	520	Potentially toxic, taste & odour	34.84	0.054
<i>Cocoid Blue Green Picoplankton</i>	615567	Filter clogging?	1,169.57	0.277
<i>Cuspidothrix issatschenkoi</i>	1804		92.00	0.097
<i>Dolichospermum affine</i>	1873		76.23	0.087
<i>Limnothrix</i>	1353	Potentially toxic	13.53	0.017
<i>Merismopedia</i>	22067		22.06	0.185
<i>Pseudanabaena</i>	38715		309.72	0.387
<i>Raphidiopsis raciborskii</i>	744	Potentially toxic, taste & odour	28.12	0.021
<i>Sphaerospermopsis aphanizomenoides</i>	6882		206.46	0.259
Subtotal	706670		2,470.30	1.686

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	706700	2470.00	1.690
* Potentially Toxic Blue Green	2620	76.50	0.092

Comment:

Sample received partially preserved, results may be compromised. Debris present in the sample.

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Phycology

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REPORT

Report no: 285354

Depth : N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 29/05/2023

Lims No: L23040751

Date Sampled: 11/05/2023

Analyst: [REDACTED]

Client ID: 233300

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water
Laboratory Services
Issued On : 30/05/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anagnostidinema</i>	49776		1,503.23	0.877
<i>Aphanizomenonaceae</i>	1023	Potentially toxic, taste & odour	68.54	0.106
<i>Cocoid Blue Green Picoplankton</i>	349264	Filter clogging?	663.60	0.157
<i>Merismopedia</i>	58072		58.07	0.488
<i>Non toxic Aphanizomenonaceae</i>	2270	Taste & Odour	93.07	0.100
<i>Planktolyngbya</i>	73918	Filter clogging	739.18	5.913
<i>Pseudanabaena</i>	102871		822.96	1.028
<i>Sphaerospermopsis reniformis</i>	624	Taste & Odour	25.02	0.028
Subtotal	637818		3,973.67	8.697

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	637800	3974.00	8.700
* Potentially Toxic Blue Green	1020	68.50	0.106

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Supersedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 29/05/2023

Lims No: L23040753

Date Sampled: 11/05/2023

Analyst: [REDACTED]

Client ID: 233307

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water

Laboratory Services

Issued On : 30/05/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	1170075	Filter clogging?	2,223.14	0.528
<i>Planktolyngbya</i>	41886	Filter clogging	418.86	3.350
<i>Pseudanabaena</i>	23671		189.36	0.236
Subtotal	1235632		2,831.36	4.114

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1236000	2831.00	4.110
* Potentially Toxic Blue Green	0	0.00	0.000

Comment:

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

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