

REPORT Report no:

285354

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: 29/05/2023 Date analysed:

Disclaimer: Samples analysed as

NA

Page 1 of 2

Lims No: L23040745 11/05/2023 Analyst: Date Sampled:

Client ID: 233279

Address:

Site:

Client: **Department of Planning and Environment**

Method: **MA71CENT** Issued By: Sydney Water

> Laboratory Services received.

Issued On: 30/05/2023

TAXA

Cells/ Significance ASU/ Biovolum mLmLmm3/L

Cyanophyta (Blue green)

Anagnostidinema	14933		450.97	0.263
Coccoid Blue Green Picoplankton	182734	Filter clogging?	347.19	0.082
Merismopedia	4425		4.42	0.037
Non toxic Aphanizomenonaceae	1665	Taste & Odour	68.26	0.074
Planktolyngbya	30419	Filter clogging	304.19	2.433
Pseudanabaena	108402		867.21	1.084
Raphidiopsis	2212		133.38	0.149
Raphidiopsis raciborskii	4425	Potentially toxic, taste & odour	167.26	0.129
Sphaerospermopsis aphanizomenoides	1388		41.64	0.052
Subtotal	350603		2,384.52	4.303

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

Debris present in the sample.

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.

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



^{*}Taxa with potential to produce toxins.



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



REPORT Report no:

285354

Depth: N/A

Page 1 of 2

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Client ID: 233286

Address:

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services

Issued On: 30/05/2023

Disclaimer: Samples analysed as

29/05/2023

received.

Date analysed:

TAXA

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

Cyanophyta (Blue green)

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

Cells/ ASU/ Biovolume mL mm3/L

 Total Blue Green
 961700
 3120.00
 3.960

 * Potentially Toxic Blue Green
 4760
 200.60
 0.198

Comment

Debris present in the sample.



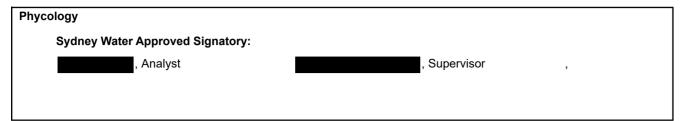
*Taxa with potential to produce toxins.

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

; Cyanodictyon





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L23040749

PHYTOPLANKTON ANALYSIS

REPORT Report no:

Date Sampled:

285354

11/05/2023

Depth: N/A Page 1 of 2

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

29/05/2023

Analyst:

Date analysed:

Client ID: 233293

Address:

Site:

Lims No:

Client: **Department of Planning and Environment**

Method: **MA71CENT** Issued By: Sydney Water

> Laboratory Services Issued On: 30/05/2023

received.

TAXA

Cells/	Significance	ASU/	Biovolum
mL		mL	mm3/L

Disclaimer: Samples analysed as

Cyanophyta (Blue green)

				
Anagnostidinema	17145		517.77	0.302
Aphanizomenonaceae	520	Potentially toxic, taste & odour	34.84	0.054
Coccoid Blue Green Picoplankton	615567	Filter clogging?	1,169.57	0.277
Cuspidothrix issatschenkoi	1804		92.00	0.097
Dolichospermum affine	1873		76.23	0.087
Limnothrix	1353	Potentially toxic	13.53	0.017
Merismopedia	22067		22.06	0.185
Pseudanabaena	38715		309.72	0.387
Raphidiopsis raciborskii	744	Potentially toxic, taste & odour	28.12	0.021
Sphaerospermopsis aphanizomenoides	6882		206.46	0.259
Subtotal	706670		2,470.30	1.686

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

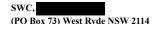
Comment:

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

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

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

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



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Address:

285354

11/05/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed:

Analyst:

Client ID: 233300

L23040751 *Date Sampled:*

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services

Issued On: 30/05/2023

Disclaimer: Samples analysed as

29/05/2023

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received.

TAXA

Cells/	Significance	ASU/	Biovolum
mL		mL	mm3/L

Cyanophyta (Blue green)

Anagnostidinema	49776		1,503.23	0.877
Aphanizomenonaceae	1023	Potentially toxic, taste & odour	68.54	0.106
Coccoid Blue Green Picoplankton	349264	Filter clogging?	663.60	0.157
Merismopedia	58072		58.07	0.488
Non toxic Aphanizomenonaceae	2270	Taste & Odour	93.07	0.100
Planktolyngbya	73918	Filter clogging	739.18	5.913
Pseudanabaena	102871		822.96	1.028
Sphaerospermopsis reniformis	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

Comment:

Debris present in the sample.

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

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Analyst:

29/05/2023

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Date Sampled:

Client ID: 233307

L23040753

Address:

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services receive

Issued On: 30/05/2023

received.

TAXA

Cells/	Significance	ASU/	Biovolum
mL		mL	mm3/L

Disclaimer: Samples analysed as

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1170075	Filter clogging?		2,223.14	0.528
Planktolyngbya	41886	Filter clogging		418.86	3.350
Pseudanabaena	23671			189.36	0.236
Subtotal	1235632			2,831.36	4.114
	Cells/		ASU/	Bio	volume
	mL		mL	m	m3/L
Total Blue Green	1236000		2831.00		4.110
* Potentially Toxic Blue Green	0		0.00		0.000

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

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

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