

**REPORT**

Report no: 286661      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 21/06/2023  
 Analyst: ██████████

Lims No: L23047382      Date Sampled: 1/06/2023

Client ID: 234537

Address: ██████████

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water  
 Laboratory Services  
 Issued On : 22/06/2023

**Disclaimer: Samples analysed as received.**

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anagnostidinema</i>	3268		98.69	0.057
<i>Cocoid Blue Green Picoplankton</i>	970859	Filter clogging?	1,844.63	0.438
<i>Cuspidothrix issatschenkoi</i>	9373		478.02	0.508
<i>Dolichospermum affine</i>	1734		70.57	0.080
<i>Dolichospermum cf planctonicum/smithii</i>	1700	Taste & Odour	194.31	0.430
<i>Merismopedia</i>	5899		5.89	0.049
<i>Myxobaktron</i>	737		12.97	0.003
<i>Non toxic Aphanizomenonaceae</i>	2019	Taste & Odour	82.77	0.089
<i>Planktolyngbya</i>	260	Filter clogging	2.60	0.020
<i>Planktothrix</i>	1179	Potentially toxic	81.35	0.223
<i>Pseudanabaena</i>	28166		225.32	0.281
<i>Raphidiopsis</i>	1665	Potentially toxic	100.39	0.112
<i>Raphidiopsis raciborskii</i>	2643	Potentially toxic, taste & odour	99.90	0.077
<i>Sphaerospermopsis aphanizomenoides</i>	2914		87.42	0.109
<b>Subtotal</b>	1032416		3,384.83	2.476

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	1032000	3385.00	2.480
<b>* Potentially Toxic Blue Green</b>	3820	181.30	0.300

**Comment:**

Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm<sup>2</sup> 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



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: 286661

Depth : N/A

Supersedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 21/06/2023

Lims No: L23047384

Date Sampled: 1/06/2023

Analyst: [REDACTED]

Client ID: 234541

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water  
Laboratory Services  
Issued On : 22/06/2023

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**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaenopsis</i>	1056	Potentially toxic	72.86	0.125
<i>Anagnostidinema</i>	3018		91.14	0.053
<i>Cocoid Blue Green Picoplankton</i>	183675	Filter clogging?	348.98	0.082
<i>Cuspidothrix issatschenkoi</i>	1301		66.35	0.070
<i>Dolichospermum affine</i>	694		28.24	0.032
<i>Planktolyngbya</i>	3070	Filter clogging	30.70	0.245
<i>Pseudanabaena</i>	35839		286.71	0.358
<i>Raphidiopsis</i>	330	Potentially toxic	19.89	0.022
<i>Raphidiopsis raciborskii</i>	2581	Potentially toxic, taste & odour	97.56	0.075
<i>Romeria</i>	553		8.84	0.003
<i>Synechococcus cf</i>	830		10.20	0.005
<b>Subtotal</b>	232947		1,061.47	1.070

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	232900	1061.00	1.070
<b>* Potentially Toxic Blue Green</b>	3640	170.40	0.200

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

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 Microcystin equivalents: NA  
 Date analysed: 21/06/2023  
 Analyst: [REDACTED]

Lims No: L23047386 Date Sampled: 1/06/2023

Client ID: 234545 Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water  
 Laboratory Services  
 Issued On : 22/06/2023

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**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anagnostidinema</i>	312		9.42	0.005
<i>Cocoid Blue Green Picoplankton</i>	1201047	Filter clogging?	2,281.98	0.542
<i>Cuspidothrix issatschenkoi</i>	1665		84.91	0.090
<i>Dolichospermum affine</i>	1441		58.64	0.066
<i>Dolichospermum cf planctonicum/smithii</i>	2602	Taste & Odour	297.40	0.659
<i>Merismopedia</i>	55971		55.97	0.471
<i>Microcystis</i>	2516	Potentially toxic, taste & odour	70.69	0.069
<i>Myxobaktron</i>	3687		64.89	0.018
<i>Non toxic Aphanizomenonaceae</i>	1415	Taste & Odour	58.01	0.062
<i>Pseudanabaena</i>	61354		490.83	0.613
<i>Raphidiopsis raciborskii</i>	1457	Potentially toxic, taste & odour	55.07	0.042
<i>Sphaerospermopsis aphanizomenoides</i>	2926		87.78	0.110
<i>Spirulina</i>	2212		33.18	0.008
<i>Synechococcus cf</i>	3761		46.26	0.025
<b>Subtotal</b>	1342366		3,695.03	2.780

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	1342000	3695.00	2.780
<b>* Potentially Toxic Blue Green</b>	3970	125.80	0.111

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

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 Microcystin equivalents: NA  
 Date analysed: 21/06/2023  
 Analyst: [REDACTED]

Lims No: L23047388 Date Sampled: 1/06/2023

Client ID: 234549 Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water  
 Laboratory Services  
 Issued On : 22/06/2023

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**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaenopsis</i>	416	Potentially toxic	28.70	0.049
<i>Anagnostidinema</i>	642		19.38	0.011
<i>Cocoid Blue Green Picoplankton</i>	627181	Filter clogging?	1,191.64	0.283
<i>Cuspidothrix issatschenkoi</i>	2548		129.94	0.138
<i>Dolichospermum affine</i>	6327		257.50	0.294
<i>Dolichospermum cf planctonicum/smithii</i>	607	Taste & Odour	69.38	0.153
<i>Non toxic Aphanizomenonaceae</i>	520	Taste & Odour	21.32	0.023
<i>Pseudanabaena</i>	13274		106.19	0.132
<i>Raphidiopsis</i>	173	Potentially toxic	10.43	0.011
<i>Raphidiopsis raciborskii</i>	833	Potentially toxic, taste & odour	31.48	0.024
<i>Romeria</i>	2950		47.20	0.019
<i>Sphaerospermopsis aphanizomenoides</i>	1353		40.59	0.050
<i>Spirulina</i>	1475		22.12	0.005
<i>Synechococcus cf</i>	737		9.06	0.004
<b>Subtotal</b>	659036		1,984.93	1.196

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	659000	1985.00	1.200
<b>* Potentially Toxic Blue Green</b>	1250	60.20	0.073

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    Microcystin equivalents: NA  
    Date analysed: 21/06/2023  
    Analyst: [REDACTED]

Lims No: L23047390      Date Sampled: 1/06/2023

Client ID: 234553      Address: [REDACTED]  
 Site: [REDACTED]

Client: Department of Planning and Environment

Method: MA71CENT      Issued By : Sydney Water  
 Laboratory Services  
 Issued On : 22/06/2023

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<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaenopsis</i>	1804	Potentially toxic	124.47	0.213
<i>Anagnostidinema</i>	4856		146.65	0.085
<i>Aphanizomenonaceae</i>	2669	Potentially toxic, taste & odour	178.82	0.277
<i>Cocoid Blue Green Picoplankton</i>	2355636	Filter clogging?	4,475.70	1.063
<i>Cuspidothrix issatschenkoi</i>	8887		453.23	0.482
<i>Dolichospermum cf planctonicum/smithii</i>	6799	Taste & Odour	777.12	1.722
<i>Merismopedia</i>	2950		2.95	0.024
<i>Non toxic Aphanizomenonaceae</i>	1110	Taste & Odour	45.51	0.049
<i>Phormidium species 1</i>	798	Potentially toxic, taste & odour	13.40	0.016
<i>Pseudanabaena</i>	187306		1,498.44	1.873
<i>Raphidiopsis</i>	2359	Potentially toxic	142.24	0.159
<i>Raphidiopsis raciborskii</i>	4433	Potentially toxic, taste & odour	167.56	0.130
<i>Sphaerospermopsis aphanizomenoides</i>	5141		154.23	0.193
<i>Spirulina</i>	3687		55.30	0.013
<i>Synechococcus cf</i>	5309		65.30	0.035
<b>Subtotal</b>	2593744		8,300.92	6.334

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	2594000	8301.00	6.330
<b>* Potentially Toxic Blue Green</b>	9700	484.30	0.636

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