

**REPORT**

Report no:

285930

Depth :

N/A

Supercedes Report No:

Chlorophyll a:

NA

Microcystin equivalents:

NA

Date analysed:

7/06/2023

Lims No: L23042199

Date Sampled:

18/05/2023

Analyst:

Client ID: 233918

Address:

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water

Laboratory Services

Issued On : 09/06/2023

**Disclaimer: Samples analysed as received.**
**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaenopsis</i>	1318	Potentially toxic	90.94	0.156
<i>Anagnostidinema</i>	2768		83.59	0.048
<i>Cocoid Blue Green Picoplankton</i>	2187502	Filter clogging?	4,156.25	0.987
<i>Cuspidothrix issatschenkoi</i>	7826		399.12	0.424
<i>Microcystis</i>	798	Potentially toxic, taste & odour	22.42	0.022
<i>Myxobaktron</i>	1475		25.96	0.007
<i>Non toxic Aphanizomenonaceae</i>	1665	Taste & Odour	68.26	0.074
<i>Planktolyngbya</i>	16223	Filter clogging	162.23	1.297
<i>Pseudanabaena</i>	37879		303.03	0.378
<i>Raphidiopsis raciborskii</i>	7160	Potentially toxic, taste & odour	270.64	0.210
<i>Sphaerospermopsis aphanizomenoides</i>	1943		58.29	0.073
<i>Synechococcus cf</i>	2212		27.20	0.014
<b>Subtotal</b>	2268769		5,667.93	3.690

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	2269000	5668.00	3.690
<b>* Potentially Toxic Blue Green</b>	9280	384.00	0.388

**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:

██████████, 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:

285930

Depth :

N/A

Supercedes Report No:

Chlorophyll a:

NA

Microcystin equivalents:

NA

Date analysed:

7/06/2023

Lims No: L23042200

Date Sampled:

18/05/2023

Analyst:



Client ID: 233919

Address:



Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water

Laboratory Services

Issued On : 09/06/2023

**Disclaimer: Samples analysed as received.**
**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaena</i>	1108	Taste & Odour	162.87	0.117
<i>Anabaenopsis</i>	708	Potentially toxic	48.85	0.083
<i>Aphanizomenonaceae</i>	3327	Potentially toxic, taste & odour	222.90	0.345
<i>Cocoid Blue Green Picoplankton</i>	716779	Filter clogging?	1,361.88	0.323
<i>Cuspidothrix issatschenkoi</i>	4293		218.94	0.232
<i>Dolichospermum cf planctonicum/smithii</i>	278	Taste & Odour	31.77	0.070
<i>Merismopedia</i>	8849		8.84	0.074
<i>Microcystis</i>	590	Potentially toxic, taste & odour	16.57	0.016
<i>Planktolyngbya</i>	13827	Filter clogging	138.27	1.106
<i>Pseudanabaena</i>	61944		495.55	0.619
<i>Raphidiopsis raciborskii</i>	6410	Potentially toxic, taste & odour	242.29	0.188
<i>Sphaerospermopsis aphanizomenoides</i>	3989		119.67	0.150
<b>Subtotal</b>	822102		3,068.40	3.323

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	822100	3068.00	3.320
* Potentially Toxic Blue Green	11040	530.60	0.632

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

## Phycology

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**REPORT**

Report no: 285930      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 8/06/2023  
 Analyst: ██████████

Lims No: L23042201      Date Sampled: 18/05/2023

Client ID: 233920

Address: ██████████

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water  
 Laboratory Services  
 Issued On : 09/06/2023

**Disclaimer: Samples analysed as received.**

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaenopsis</i>	1804	Potentially toxic	124.47	0.213
<i>Anagnostidinema</i>	3885		117.32	0.068
<i>Cocoid Blue Green Picoplankton</i>	1049727	Filter clogging?	1,994.48	0.473
<i>Cuspidothrix issatschenkoi</i>	2636		134.43	0.143
<i>Merismopedia</i>	8849		8.84	0.074
<i>Microcystis</i>	3608	Potentially toxic, taste & odour	101.38	0.100
<i>Myxobaktron</i>	1475		25.96	0.007
<i>Non toxic Aphanizomenonaceae</i>	1811	Taste & Odour	74.25	0.080
<i>Planktolyngbya</i>	5899	Filter clogging	58.99	0.471
<i>Pseudanabaena</i>	34785		278.28	0.347
<i>Raphidiopsis raciborskii</i>	7201	Potentially toxic, taste & odour	272.19	0.211
<i>Sphaerospermopsis aphanizomenoides</i>	11711		351.33	0.441
<b>Subtotal</b>	1133391		3,541.92	2.628

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	1133000	3542.00	2.630
<b>* Potentially Toxic Blue Green</b>	12610	498.00	0.524

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

## Phycology

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██████████, Supervisor



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**REPORT**

Report no: 285930

Depth : N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 6/06/2023

Lims No: L23042202

Date Sampled: 18/05/2023

Analyst: [REDACTED]

Client ID: 233921

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water  
Laboratory Services  
Issued On : 09/06/2023

**Disclaimer: Samples analysed as received.**

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolume mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaenopsis</i>	2567	Potentially toxic	177.12	0.304
<i>Cocoid Blue Green Picoplankton</i>	563689	Filter clogging?	1,071.00	0.254
<i>Cuspidothrix issatschenkoi</i>	13098		667.99	0.710
<i>Dolichospermum affine</i>	1179		47.98	0.054
<i>Dolichospermum cf planctonicum/smithii</i>	1318	Taste & Odour	150.64	0.333
<i>Limnothrix</i>	2116	Potentially toxic	21.16	0.026
<i>Merismopedia</i>	8849		8.84	0.074
<i>Microcystis</i>	1410	Potentially toxic, taste & odour	39.62	0.039
<i>Planktolyngbya</i>	16039	Filter clogging	160.39	1.283
<i>Pseudanabaena</i>	167248		1,337.98	1.672
<i>Raphidiopsis raciborskii</i>	6660	Potentially toxic, taste & odour	251.74	0.195
<i>Sphaerospermopsis aphanizomenoides</i>	12488		374.64	0.470
<i>Spirulina</i>	2765		41.47	0.010
<b>Subtotal</b>	799426		4,350.57	5.424

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	799400	4351.00	5.420
<b>* Potentially Toxic Blue Green</b>	12750	489.60	0.564

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

## Phycology

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██████████, Supervisor



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Accredited for compliance with ISO/IEC 17025



**REPORT**

Report no: 285930      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 7/06/2023  
 Analyst: ██████████

Lims No: L23042203      Date Sampled: 18/05/2023  
 Client ID: 233922      Address: ██████████  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT      Issued By : Sydney Water      Disclaimer: Samples analysed as received.  
 Laboratory Services  
 Issued On : 09/06/2023

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaena</i>	2258	Taste & Odour	331.92	0.239
<i>Anabaenopsis</i>	555	Potentially toxic	38.29	0.065
<i>Aphanizomenonaceae</i>	850	Potentially toxic, taste & odour	56.95	0.088
<i>Cocoid Blue Green Picoplankton</i>	1422644	Filter clogging?	2,703.02	0.642
<i>Cuspidothrix issatschenkoi</i>	4246		216.54	0.230
<i>Dolichospermum</i>	555	Potentially toxic, taste & odour	50.72	0.089
<i>Dolichospermum cf planctonicum/smithii</i>	382	Taste & Odour	43.66	0.096
<i>Merismopedia</i>	23598		23.59	0.198
<i>Myxobaktron</i>	1475		25.96	0.007
<i>Planktolynbya</i>	30972	Filter clogging	309.72	2.477
<i>Planktothrix</i>	572	Potentially toxic	39.46	0.108
<i>Pseudanabaena</i>	142766		1,142.12	1.427
<i>Raphidiopsis</i>	624	Potentially toxic	37.62	0.042
<i>Raphidiopsis raciborskii</i>	4301	Potentially toxic, taste & odour	162.57	0.126
<i>Sphaerospermopsis aphanizomenoides</i>	5841		175.23	0.220
<b>Subtotal</b>	1641639		5,357.37	6.054

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	1642000	5357.00	6.050
<b>* Potentially Toxic Blue Green</b>	6830	348.00	0.476

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