

**REPORT**

Report no: 286397      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
    Microcystin equivalents: NA  
    Date analysed: 16/06/2023  
    Analyst: [REDACTED]

Lims No: L23044632      Date Sampled: 24/05/2023  
 Client ID: 234269      Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT      Issued By : Sydney Water      Disclaimer: Samples analysed as received.  
 Laboratory Services  
 Issued On : 17/06/2023

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	1212440	Filter clogging?	2,303.63	0.547
<i>Merismopedia</i>	11799		11.79	0.099
<b>Subtotal</b>	1224239		2,315.42	0.646
	Cells/ mL		ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1224000		2315.00	0.646
* Potentially Toxic Blue Green	0		0.00	0.000

**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  
██████████, Analyst

██████████, Analyst ,



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

**REPORT**

Report no: 286397

Depth : N/A

Supersedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 13/06/2023

Lims No: L23044633

Date Sampled: 24/05/2023

Analyst: [REDACTED]

Client ID: 234270

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water

Laboratory Services

Issued On : 17/06/2023

**Disclaimer: Samples analysed as received.**

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Cocoid Blue Green Picoplankton</i>	1217971	Filter clogging?	2,314.14	0.549
<i>Cuspidothrix issatschenkoi</i>	1525		77.77	0.082
<i>Merismopedia</i>	20648		20.64	0.173
<i>Pseudanabaena</i>	13274		106.19	0.132
<i>Raphidiopsis raciborskii</i>	278	Potentially toxic, taste & odour	10.50	0.008
<b>Subtotal</b>	1253696		2,529.24	0.944

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1254000	2529.00	0.944
<b>* Potentially Toxic Blue Green</b>	278	10.50	0.008

**Comment:**

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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**

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**REPORT**

Report no:

286397

Depth :

N/A

Supercedes Report No:

Chlorophyll a:

NA

Microcystin equivalents:

NA

Date analysed:

16/06/2023

Lims No: L23044634

Date Sampled:

24/05/2023

Analyst:

Client ID: 234271

Address:

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water

Laboratory Services

Issued On : 17/06/2023

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

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anagnostidinema</i>	3920		118.38	0.069
<i>Cocoid Blue Green Picoplankton</i>	383941	Filter clogging?	729.48	0.173
<i>Cuspidothrix issatschenkoi</i>	3375		172.12	0.183
<i>Dolichospermum affine</i>	3174		129.18	0.147
<i>Pseudanabaena</i>	73816		590.52	0.738
<i>Raphidiopsis</i>	243	Potentially toxic	14.65	0.016
<i>Raphidiopsis raciborskii</i>	2706	Potentially toxic, taste & odour	102.28	0.079
<i>Romeria</i>	737		11.79	0.004
<i>Sphaerospermopsis aphanizomenoides</i>	2269		68.07	0.085
<b>Subtotal</b>	474181		1,936.47	1.494

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	474200	1936.00	1.490
<b>* Potentially Toxic Blue Green</b>	2710	102.30	0.079

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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**

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**REPORT**

Report no: 286397      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
    Microcystin equivalents: NA  
    Date analysed: 16/06/2023  
 Lims No: L23044635      Date Sampled: 24/05/2023      Analyst: [REDACTED]

Client ID: 234272      Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT      Issued By : Sydney Water      Disclaimer: Samples analysed as received.  
 Laboratory Services  
 Issued On : 17/06/2023

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	324940	Filter clogging?	617.38	0.146
<i>Dolichospermum</i>	555	Potentially toxic, taste & odour	50.72	0.089
<b>Subtotal</b>	325495		668.10	0.235
	Cells/ mL		ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	325500		668.10	0.235
* Potentially Toxic Blue Green	555		50.70	0.089

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

**Phycology**

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**REPORT**

Report no: 286397 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 13/06/2023

Lims No: L23044636 Date Sampled: 24/05/2023 Analyst: [REDACTED]

Client ID: 234273 Address: [REDACTED] RD

Site:  
 Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water  
 Laboratory Services  
 Issued On : 17/06/2023  
 Disclaimer: Samples analysed as received.

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaena</i>	139	Taste & Odour	20.43	0.014
<i>Anagnostidinema</i>	19173		579.02	0.338
<i>Cocoid Blue Green Picoplankton</i>	1080146	Filter clogging?	2,052.27	0.487
<i>Cuspidothrix issatschenkoi</i>	208		10.60	0.011
<i>Myxobaktron</i>	2876		50.61	0.014
<i>Planktolyngbya</i>	28022	Filter clogging	280.22	2.241
<i>Pseudanabaena</i>	36871		294.96	0.368
<i>Raphidiopsis</i>	1162	Potentially toxic	70.06	0.078
<i>Raphidiopsis raciborskii</i>	1077	Potentially toxic, taste & odour	40.71	0.031
<i>Sphaerospermopsis aphanizomenoides</i>	1422		42.66	0.053
<i>Sphaerospermopsis reniformis</i>	1401	Taste & Odour	56.18	0.065
<i>Spirulina</i>	8849		132.73	0.032
<i>Synechococcus cf</i>	1475		18.14	0.009
<b>Subtotal</b>	1182821		3,648.59	3.741

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1183000	3649.00	3.740
<b>* Potentially Toxic Blue Green</b>	1080	40.70	0.031

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

## Phycology

### Sydney Water Approved Signatory:

[REDACTED], Analyst  
[REDACTED], Analyst

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**REPORT**

Report no: 286397      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
    Microcystin equivalents: NA  
    Date analysed: 16/06/2023  
    Analyst: [REDACTED]

Lims No: L23044637      Date Sampled: 24/05/2023

Client ID: 234274      Address: [REDACTED]  
 Site: [REDACTED]

Client: Department of Planning and Environment

Method: MA71CENT      Issued By : Sydney Water      Disclaimer: Samples analysed as received.  
 Laboratory Services  
 Issued On : 17/06/2023

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolume mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Cocoid Blue Green Picoplankton</i>	1013999	Filter clogging?	1,926.59	0.457
<i>Dolichospermum</i>	451	Potentially toxic, taste & odour	41.22	0.073
<i>Merismopedia</i>	5899		5.89	0.049
<i>Myxobaktron</i>	2876		50.61	0.014
<i>Non toxic Aphanizomenonaceae</i>	208	Taste & Odour	8.52	0.009
<i>Planktolyngbya</i>	19173	Filter clogging	191.73	1.533
<i>Pseudanabaena</i>	5899		47.19	0.058
<i>Raphidiopsis</i>	208	Potentially toxic	12.54	0.014
<i>Raphidiopsis raciborskii</i>	2857	Potentially toxic, taste & odour	107.99	0.083
<i>Sphaerospermopsis aphanizomenoides</i>	208		6.24	0.007
<i>Sphaerospermopsis reniformis</i>	1075	Taste & Odour	43.10	0.049
<i>Spirulina</i>	2950		44.25	0.010
<i>Synechococcus cf</i>	2212		27.20	0.014
<b>Subtotal</b>	<b>1058015</b>		<b>2,513.07</b>	<b>2.370</b>

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	<b>1058000</b>	<b>2513.00</b>	<b>2.370</b>
<b>* Potentially Toxic Blue Green</b>	<b>3310</b>	<b>149.20</b>	<b>0.156</b>

Comment:  
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## Phycology

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**REPORT**

Report no: 286397

Depth : N/A

Supersedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 16/06/2023

Lims No: L23044638

Date Sampled: 24/05/2023

Analyst: [REDACTED]

Client ID: 234275

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water  
Laboratory Services  
Issued On : 17/06/2023

**Disclaimer: Samples analysed as received.**

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Coccoid Blue Green Picoplankton</i>	519148	Filter clogging?	986.38	0.234
<i>Merismopedia</i>	2212		2.21	0.018
<b>Subtotal</b>	521360		988.59	0.252
	Cells/ mL		ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	521400		988.60	0.252
* Potentially Toxic Blue Green	0		0.00	0.000

**Comment:**

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

**Phycology**

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