

Report no: 295472 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 5/12/2023

Lims No: L23091450 Date Sampled: 9/11/2023 Analyst: [REDACTED]

Client ID: 239571 Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water  
 Laboratory Services  
 Issued On : 06/12/2023

Disclaimer: Samples analysed as received.

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Anabaena</i>	2671	Taste & Odour	392.63	0.283
<i>Cocoid Blue Green Picoplankton</i>	64958	Filter clogging?	123.42	0.029
<i>Merismopedia</i>	3318		3.31	0.027
<b>Subtotal</b>	70947		519.36	0.339

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	70950	519.40	0.339
<b>* Potentially Toxic Blue Green</b>	0	0.00	0.000

**Comment:**

Sample received unpreserved/ partially preserved, results may be compromised. Debris present in the sample. Cells resembling bacteria present.

\*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*; *Gloeotheca*; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

██████████ Analyst

██████████ Supervisor

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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 no: 295472 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 5/12/2023  
 Analyst: [REDACTED]

Lims No: L23091451

Date Sampled: 9/11/2023

Client ID: 239572

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water  
 Laboratory Services  
 Issued On : 06/12/2023

**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>	7190	Filter clogging?	13.66	0.003
<i>Merismopedia</i>	1659		1.65	0.013
<i>Microcystis</i>	553	Potentially toxic, taste & odour	15.53	0.015
<b>Subtotal</b>	9402		30.84	0.031

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	9400	30.80	0.031
<b>* Potentially Toxic Blue Green</b>	553	15.50	0.015

**Comment:**

Debris present in the sample. Sample contained cells resembling bacteria.

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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.

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

**Phycology**

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██████████ Supervisor

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Report no: 295472 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 5/12/2023

Lims No: L23091452 Date Sampled: 9/11/2023 Analyst: [REDACTED]  
 Client ID: 239573 Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water  
 Laboratory Services  
 Issued On : 06/12/2023

Disclaimer: Samples analysed as received.

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Anagnostidinema</i>	278		8.39	0.004
<i>Cocoid Blue Green Picoplankton</i>	37498	Filter clogging?	71.24	0.016
<b>Subtotal</b>	37776		79.63	0.020

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	37780	79.60	0.020
<b>* Potentially Toxic Blue Green</b>	0	0.00	0.000

**Comment:**

Sample received unpreserved/ partially preserved, results may be compromised. Debris present in the sample. Cells resembling bacteria present.

\*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*; *Gloeotheca*; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

██████████ Analyst

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Report no: 295472 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 5/12/2023

Lims No: L23091453 Date Sampled: 9/11/2023 Analyst: [REDACTED]

Client ID: 239574 Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Laboratory Services  
 Issued On : 06/12/2023 Disclaimer: Samples analysed as received.

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Aphanizomenonaceae</i>	989	Potentially toxic, taste & odour	66.26	0.102
<i>Cocoid Blue Green Picoplankton</i>	2516690	Filter clogging?	4,781.71	1.136
<i>Dolichospermum</i>	208	Potentially toxic, taste & odour	19.01	0.033
<i>Dolichospermum circinale</i>	3484	Potentially toxic, taste & odour	302.75	0.605
<i>Non toxic Aphanizomenonaceae</i>	104	Taste & Odour	4.26	0.004
<b>Subtotal</b>	2521475		5,173.99	1.880

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	2521000	5174.00	1.880
<b>* Potentially Toxic Blue Green</b>	4680	388.00	0.740

**Comment:**

Debris present in the sample.

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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*; *Gloeotheca*; *Cyanodictyon*

**Phycology**

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██████████ Analyst

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Report no: 295472 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 5/12/2023

Lims No: L23091454 Date Sampled: 9/11/2023 Analyst: [REDACTED]

Client ID: 239575 Address: [REDACTED]  
 Site: [REDACTED]

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water  
 Laboratory Services  
 Issued On: 06/12/2023

Disclaimer: Samples analysed as received.

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm <sup>3</sup> /L
<b>Cyanophyta (Blue green)</b>				
<i>Coccolid Blue Green Picoplankton</i>	105083	Filter clogging?	199.65	0.047
<i>Dolichospermum circinale</i>	555	Potentially toxic, taste & odour	48.22	0.096
<i>Microcystis</i>	830	Potentially toxic, taste & odour	23.32	0.023
<i>Non toxic Aphanizomenonaceae</i>	208	Taste & Odour	8.52	0.009
<b>Subtotal</b>	<b>106676</b>		<b>279.71</b>	<b>0.175</b>
	Cells/ mL		ASU/ mL	Biovolume mm <sup>3</sup> /L
<b>Total Blue Green</b>	<b>106700</b>		<b>279.70</b>	<b>0.175</b>
<b>* Potentially Toxic Blue Green</b>	<b>1390</b>		<b>71.50</b>	<b>0.119</b>

**Comment:**

Sample received unpreserved/ partially preserved, results may be compromised. 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.

Coccolid Blue Green Picoplankton: *Aphanocapsa*; *Aphanothece*; *Cyanogranis*; *Cyanonephron*; *Cyanocatena*; *Gloeocapsa*; *Gloeotheca* ; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

██████████ Analyst ██████████ Supervisor ,



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

Report no: 295472      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
    Microcystin equivalents: NA  
    Date analysed: 5/12/2023

Lims No: L23091455      Date Sampled: 9/11/2023      Analyst: [REDACTED]

Client ID: 239576      Address: [REDACTED]

Site:  
 Client: Department of Planning and Environment

Method: MA71CENT      Issued By : Sydney Water      Disclaimer: Samples analysed as received.  
 Laboratory Services  
 Issued On : 06/12/2023

## TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Aphanizomenonaceae</i>	208	Potentially toxic, taste & odour	13.93	0.021
<i>Cocoid Blue Green Picoplankton</i>	42172	Filter clogging?	80.12	0.019
<i>Dolichospermum</i>	588	Potentially toxic, taste & odour	53.74	0.095
<i>Merismopedia</i>	3180		3.18	0.026
<i>Pseudanabaena</i>	1383		11.06	0.013
<b>Subtotal</b>	47531		162.03	0.174

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	47530	162.00	0.174
<b>* Potentially Toxic Blue Green</b>	796	67.70	0.116

### Comment:

Sample received unpreserved/ partially preserved, results may be compromised. 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*; *Gloeotheca*; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

██████████ Analyst

██████████ Supervisor

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Accredited for compliance with ISO/IEC 17025

**Report no:** 295472      **Depth :** N/A  
**Supercedes Report No:**      **Chlorophyll a:** NA  
    **Microcystin equivalents:** NA  
    **Date analysed:** 5/12/2023  
**Analyst:** ██████████

**Lims No:** L23091456

**Date Sampled:** 9/11/2023

**Client ID:** 239577

**Address:** ██████████

**Site:**

**Client:** Department of Planning and Environment

**Method:** MA71CENT

**Issued By :** Sydney Water  
**Laboratory Services**  
**Issued On :** 06/12/2023

**Disclaimer:** Samples analysed as received.

## TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Coccooid Blue Green Picoplankton</i>	2267808	Filter clogging?	4,308.83	1.023
<i>Dolichospermum circinale</i>	3559	Potentially toxic, taste & odour	309.27	0.618
<b>Subtotal</b>	2271367		4,618.10	1.641

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	2271000	4618.00	1.640
<b>* Potentially Toxic Blue Green</b>	3560	309.30	0.618

**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.

Coccooid Blue Green Picoplankton: *Aphanocapsa*; *Aphanothece*; *Cyanogranis*; *Cyanonephron*; *Cyanocatena*; *Gloeocapsa*; *Gloeotheca* ; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

██████████ Analyst ██████████ Supervisor ,



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

Report no: 295472 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 5/12/2023

Lims No: L23091457 Date Sampled: 9/11/2023 Analyst: [REDACTED]

Client ID: 239578 Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Laboratory Services  
 Issued On : 06/12/2023 Disclaimer: Samples analysed as received.

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	1760090	Filter clogging?	3,344.17	0.794
<i>Dolichospermum circinale</i>	607	Potentially toxic, taste & odour	52.74	0.105
<i>Non toxic Aphanizomenonaceae</i>	312	Taste & Odour	12.79	0.013
<b>Subtotal</b>	<b>1761009</b>		<b>3,409.70</b>	<b>0.912</b>

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	<b>1761000</b>	<b>3410.00</b>	<b>0.912</b>
<b>* Potentially Toxic Blue Green</b>	<b>607</b>	<b>52.70</b>	<b>0.105</b>

**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*; *Gloeotheca*; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

██████████ Analyst ██████████ Supervisor ,



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Accredited for compliance with ISO/IEC 17025



Report no: 295472 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 5/12/2023

Lims No: L23091458 Date Sampled: 7/11/2023 Analyst: [REDACTED]

Client ID: 239579 Address: [REDACTED]

Site:  
 Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Laboratory Services  
 Issued On : 06/12/2023 Disclaimer: Samples analysed as received.

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	4943	Filter clogging?	9.39	0.002
<b>Subtotal</b>	4943		9.39	0.002

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	4940	9.39	0.002
<b>* Potentially Toxic Blue Green</b>	0	0.00	0.000

**Comment:**

Sample received unpreserved/ partially preserved, results may be compromised. Sample contained debris and cells resembling bacteria.

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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**

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██████████ Analyst

██████████ Supervisor

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