

**REPORT**

Report no: 285311 Depth : N/A  
 Supercedes Report No: 285168 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 24/05/2023  
 Analyst: [REDACTED]

Lims No: L23038398 Date Sampled: 3/05/2023

Client ID: 232932

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By: [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

**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>	2282631	Filter clogging?	4,336.99	1.030
<i>Sphaerospermopsis reniformis</i>	260	Taste & Odour	10.42	0.012
<i>Spirulina</i>	737		11.05	0.002
<i>Synechococcus cf</i>	1475		18.14	0.009
<b>Subtotal</b>	<b>2285103</b>		<b>4,376.60</b>	<b>1.053</b>

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	<b>2285000</b>	<b>4377.00</b>	<b>1.050</b>
<b>* Potentially Toxic Blue Green</b>	<b>0</b>	<b>0.00</b>	<b>0.000</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*; *Gloeothece* ; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

[REDACTED], Analyst  
[REDACTED], Analyst

[REDACTED], 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: 285311 Depth : N/A  
 Supercedes Report No: 285168 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 24/05/2023

Lims No: L23038399 Date Sampled: 3/05/2023 Analyst: [REDACTED]

Client ID: 232933 Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: [REDACTED] Disclaimer: Samples analysed as received.  
 Commercial Client Representative  
 Issued On : 29/05/2023

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Aphanizomenonaceae</i>	121	Potentially toxic, taste & odour	8.10	0.012
<i>Cocoid Blue Green Picoplankton</i>	941546	Filter clogging?	1,788.93	0.425
<i>Merismopedia</i>	7356		7.35	0.061
<i>Non toxic Aphanizomenonaceae</i>	156	Taste & Odour	6.39	0.006
<i>Planktolyngbya</i>	208	Filter clogging	2.08	0.016
<i>Pseudanabaena</i>	2201		17.60	0.022
<i>Raphidiopsis raciborskii</i>	382	Potentially toxic, taste & odour	14.43	0.011
<i>Spirulina</i>	7356		110.34	0.027
<i>Synechococcus cf</i>	2950		36.28	0.019
<b>Subtotal</b>	962276		1,991.50	0.599

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	962300	1992.00	0.599
<b>* Potentially Toxic Blue Green</b>	503	22.50	0.023

**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*; *Gloeothece*; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

██████████, Analyst  
██████████, Analyst

██████████, Supervisor ,



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**REPORT**

Report no: 285311 Depth : N/A  
 Supercedes Report No: 285168 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 24/05/2023  
 Analyst: [REDACTED]

Lims No: L23038400 Date Sampled: 3/05/2023

Client ID: 232934  
 Site:

Address: [REDACTED]

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

**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>	1670714	Filter clogging?	3,174.35	0.754
<i>Dolichospermum flos-aquae</i>	2097	Taste & Odour	227.73	0.484
<b>Subtotal</b>	1672811		3,402.08	1.238

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1673000	3402.00	1.240
* Potentially Toxic Blue Green	0	0.00	0.000

**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*; *Gloeothece* ; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

██████████, Analyst  
██████████, Analyst

██████████, Supervisor ,



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**REPORT**

Report no: 285311 Depth : N/A  
 Supercedes Report No: 285168 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 24/05/2023

Lims No: L23038401 Date Sampled: 3/05/2023 Analyst: [REDACTED]

Client ID: 232935 Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: [REDACTED] Disclaimer: Samples analysed as received.  
 Commercial Client Representative  
 Issued On : 29/05/2023

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaenopsis</i>	173	Potentially toxic	11.93	0.020
<i>Cocoid Blue Green Picoplankton</i>	991212	Filter clogging?	1,883.30	0.447
<i>Merismopedia</i>	11799		11.79	0.099
<i>Pseudanabaena</i>	1405		11.24	0.014
<i>Synechococcus cf</i>	8775		107.93	0.059
<b>Subtotal</b>	1013364		2,026.19	0.639

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1013000	2026.00	0.639
<b>* Potentially Toxic Blue Green</b>	173	11.90	0.020

**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**

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██████████, Analyst  
██████████, Analyst

██████████, Supervisor ,



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**REPORT**

Report no: 285311 Depth : N/A  
 Supercedes Report No: 285168 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 24/05/2023  
 Analyst: [REDACTED]

Lims No: L23038402 Date Sampled: 3/05/2023

Client ID: 232936 Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: [REDACTED] Disclaimer: Samples analysed as received.  
 Commercial Client Representative  
 Issued On : 29/05/2023

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anagnostidinema</i>	590		17.81	0.010
<i>Cocoid Blue Green Picoplankton</i>	816774	Filter clogging?	1,551.87	0.368
<i>Merismopedia</i>	21183		21.18	0.178
<i>Planktolyngbya</i>	5162	Filter clogging	51.62	0.412
<i>Pseudanabaena</i>	1637		13.09	0.016
<i>Sphaerospermopsis reniformis</i>	416	Taste & Odour	16.68	0.019
<i>Spirulina</i>	737		11.05	0.002
<i>Synechococcus cf</i>	1659		20.40	0.011
<b>Subtotal</b>	<b>848158</b>		<b>1,703.70</b>	<b>1.016</b>
	Cells/ mL		ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	<b>848200</b>		<b>1704.00</b>	<b>1.020</b>
<b>* Potentially Toxic Blue Green</b>	<b>0</b>		<b>0.00</b>	<b>0.000</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*; *Gloeothece*  
 ; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

██████████, Analyst  
██████████, Analyst

██████████, Supervisor ,



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**REPORT**

Report no: 285311 Depth : N/A  
 Supercedes Report No: 285168 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 25/05/2023  
 Analyst: [REDACTED]

Lims No: L23038409 Date Sampled: 3/05/2023

Client ID: 232943

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

**Disclaimer: Samples analysed as received.**

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anabaenopsis</i>	156	Potentially toxic	10.76	0.018
<i>Cocoid Blue Green Picoplankton</i>	4506414	Filter clogging?	8,562.18	2.034
<i>Merismopedia</i>	118209		118.20	0.995
<i>Myxobaktron</i>	2876		50.61	0.014
<i>Planktolyngbya</i>	21459	Filter clogging	214.59	1.716
<i>Pseudanabaena</i>	2818		22.54	0.028
<i>Spirulina</i>	1475		22.12	0.005
<i>Synechococcus cf</i>	11799		145.12	0.079
<b>Subtotal</b>	4665206		9,146.12	4.889
	Cells/ mL		ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	4665000		9146.00	4.890
<b>* Potentially Toxic Blue Green</b>	156		10.80	0.018

**Comment:**

Sample received 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*; *Gloeothece* ; *Cyanodictyon*

**Phycology**

**Sydney Water Approved Signatory:**

[REDACTED], Analyst  
[REDACTED], Analyst

[REDACTED], Supervisor ,



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Accredited for compliance with ISO/IEC 17025

**REPORT**

<i>Report no:</i>	285311	<i>Depth :</i>	N/A
<i>Supercedes Report No:</i>	285168	<i>Chlorophyll a:</i>	NA
		<i>Microcystin equivalents:</i>	NA
		<i>Date analysed:</i>	25/05/2023
<i>Lims No:</i>	L23038410	<i>Date Sampled:</i>	3/05/2023
		<i>Analyst:</i>	[REDACTED]

Client ID: 232944

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

 Issued By : [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

**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>	5041786	Filter clogging?	9,579.39	2.276
<i>Merismopedia</i>	2950		2.95	0.024
<i>Myxobaktron</i>	1475		25.96	0.007
<i>Pseudanabaena</i>	416		3.32	0.004
<i>Spirulina</i>	1475		22.12	0.005
<i>Synechococcus cf</i>	4425		54.42	0.029
<b>Subtotal</b>	5052527		9,688.16	2.345
	Cells/ mL		ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	5053000		9688.00	2.350
* Potentially Toxic Blue Green	0		0.00	0.000

**Comment:**
**Debris present in the sample.**

\*Taxa with potential to produce toxins.

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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**

**Sydney Water Approved Signatory:**

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██████████, Analyst

██████████, Supervisor ,



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**REPORT**

Report no: 285311 Depth : N/A  
 Supercedes Report No: 285168 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 25/05/2023

Lims No: L23038411 Date Sampled: 3/05/2023 Analyst: [REDACTED]

Client ID: 232945 Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

**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>	1245071	Filter clogging?	2,365.63	0.562
<b>Subtotal</b>	1245071		2,365.63	0.562

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1245000	2366.00	0.562
<b>* Potentially Toxic Blue Green</b>	0	0.00	0.000

**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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