

REPORT Report no:

Address:

285313

Depth: N/A

Supercedes Report No: 285249 Chlorophyll a:

NA

NA

Date analysed:

Analyst:

Microcystin equivalents:

26/05/2023

Page 1 of 2

Lims No: Client ID: 232963

L23038852 Date Sampled: 5/05/2023

Site:

Client:

**Department of Planning and Environment** 

Method: **MA71CENT** Issued By:

Disclaimer: Samples analysed as

received.

Issued On: 29/05/2023

Commercial Client Representative

**TAXA** 

Cells/ Significance ASU/ Biovolum mm3/LmLmL

## Cyanophyta (Blue green)

<del></del>				
Anabaenopsis	1145	Potentially toxic	79.00	0.135
Anagnostidinema	15170		458.13	0.267
Aphanizomenon gracile	87	Taste & Odour	4.28	0.004
Coccoid Blue Green Picoplankton	493022	Filter clogging?	936.74	0.222
Cuspidothrix issatschenkoi	7269		370.71	0.394
Dolichospermum affine	3830		155.88	0.177
Limnothrix	3122	Potentially toxic	31.22	0.039
Merismopedia	12010		12.01	0.101
Planktolyngbya	47785	Filter clogging	477.85	3.822
Pseudanabaena	132389		1,059.11	1.323
Raphidiopsis	2553		153.94	0.172
Raphidiopsis raciborskii	10989	Potentially toxic, taste & odour	415.38	0.322
Snowella	4425		54.87	0.034
Sphaerospermopsis aphanizomenoides	10545		316.35	0.397
Synechococcus cf	2528		31.09	0.017
Woronichinia	1943		45.27	0.035
Subtotal	748812		4,601.83	7.461

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	748800	4602.00	7.460
* Potentially Toxic Blue Green	15260	525.60	0.496

#### **Comment:**

#### Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU: One ASU (Area Standard Unit) equals 400 µm² 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

**Sydney Water Approved Signatory:** 





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



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NA

Page 1 of 2

Microcystin equivalents:

NA 26/05/2023

Lims No: L23038853

Client ID: 232965

Date Sampled:

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5/05/2023

Date analysed: Analyst:

Site:

Client:

**Department of Planning and Environment** 

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**TAXA** 

Cells/ Significance ASU/ Biovolum mm3/LmLmL

## Cyanophyta (Blue green)

Anabaenopsis	1492	Potentially toxic	102.94	0.176
Coccoid Blue Green Picoplankton	470220	Filter clogging?	893.41	0.212
Cuspidothrix issatschenkoi	2728		139.12	0.148
Dolichospermum affine	1582		64.38	0.073
Dolichospermum cf planctonicum/smithii	347	Taste & Odour	39.66	0.087
Merismopedia	18804		18.80	0.158
Myxobaktron	553		9.73	0.002
Planktolyngbya	18804	Filter clogging	188.04	1.504
Pseudanabaena	50495		403.96	0.504
Raphidiopsis raciborskii	5635	Potentially toxic, taste & odour	213.00	0.165
Sphaerospermopsis aphanizomenoides	3868		116.04	0.145
Spirulina	2765		41.47	0.010
Synechococcus cf	1106		13.60	0.007
Subtotal	578399		2,244.15	3.191

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	578400	2244.00	3.190
* Potentially Toxic Blue Green	7130	315.90	0.341

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

; Cyanodictyon

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285313

Depth: N/A

Supercedes Report No: 285249

Chlorophyll a:

Date analysed:

NA

NA

Microcystin equivalents:

26/05/2023

Page 1 of 2

Lims No: L23038854

3038854 Date Sampled:

**5/05/2023** *Analyst:* 

Client ID: 232967 *Site:* 

Client:

Address:

Department of Planning and Environment

Method: MA71CENT Issued By:

Disclaimer: Samples analysed as

received.

Issued On: 29/05/2023

Commercial Client Representative

**TAXA** 

Cells/	Significance	ASU/	Biovolum
mL		mL	mm3/L

#### Cyanophyta (Blue green)

Anagnostidinema	13827		417.57	0.243
Coccoid Blue Green Picoplankton	64211	Filter clogging?	122.00	0.028
Cuspidothrix issatschenkoi	2775		141.52	0.150
Merismopedia	1106		1.10	0.009
Non toxic Aphanizomenonaceae	7493	Taste & Odour	307.21	0.333
Planktolyngbya	18251	Filter clogging	182.51	1.460
Pseudanabaena	46015		368.12	0.460
Raphidiopsis	833		50.22	0.056
Raphidiopsis raciborskii	1804	Potentially toxic, taste & odour	68.19	0.052
Sphaerospermopsis reniformis	4163	Taste & Odour	166.93	0.193
Subtotal	160478		1,825.37	2.984

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	160500	1825.00	2.980
* Potentially Toxic Blue Green	1800	68.20	0.052

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

; Cyanodictyon



<sup>\*</sup>Taxa with potential to produce toxins.

## Phycology

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285313

Depth: N/A

Supercedes Report No: 285249

Chlorophyll a:

NA

NA

Date analysed:

Analyst:

Microcystin equivalents:

25/05/2023

Lims No: L23038855 Client ID: 232969

855 Date Sampled:

5/05/2023

23/03/2020

Page 1 of 2

Site:

Client:

**Department of Planning and Environment** 

Method: MA71CENT

Issued By:

Commercial Client Representative

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Issued On: 29/05/2023

**TAXA** 

Cells/	Significance	ASU/	Biovolum
mL		mL	mm3/L

### Cyanophyta (Blue green)

Anabaenopsis	278	Potentially toxic	19.18	0.032
Anagnostidinema	3134		94.64	0.055
Coccoid Blue Green Picoplankton	42900	Filter clogging?	81.51	0.019
Cuspidothrix issatschenkoi	1492		76.09	0.080
Dolichospermum	208	Potentially toxic, taste & odour	19.01	0.033
Microcystis	1728	Potentially toxic, taste & odour	48.55	0.048
Myxobaktron	6747		118.74	0.034
Non toxic Aphanizomenonaceae	4225	Taste & Odour	173.22	0.187
Planktolyngbya	26455	Filter clogging	264.55	2.116
Pseudanabaena	83043		664.34	0.830
Raphidiopsis	1475		88.94	0.099
Raphidiopsis raciborskii	3256	Potentially toxic, taste & odour	123.07	0.095
Subtotal	174941		1,771.84	3.628

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	174900	1772.00	3.630
* Potentially Toxic Blue Green	5470	209.80	0.208

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#### **Phycology**

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NA

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26/05/2023

Page 1 of 2

Lims No: Client ID: 232971

L23038856

Date Sampled:

Address:

5/05/2023

Analyst:

Site:

Client:

**Department of Planning and Environment** 

Method: **MA71CENT**  Issued By:

Commercial Client Representative

Disclaimer: Samples analysed as

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Issued On: 29/05/2023

**TAXA** 

Cells/ Significance ASU/ Biovolum mLmLmm3/L

#### Cyanophyta (Blue green)

<del></del>				
Anagnostidinema	2765		83.50	0.048
Coccoid Blue Green Picoplankton	37609	Filter clogging?	71.45	0.016
Myxobaktron	7466		131.40	0.037
Non toxic Aphanizomenonaceae	2775	Taste & Odour	113.77	0.123
Planktolyngbya	1659	Filter clogging	16.59	0.132
Pseudanabaena	51684		413.47	0.516
Raphidiopsis raciborskii	2227	Potentially toxic, taste & odour	84.18	0.065
Spirulina	1659		24.88	0.006
Subtotal	107844		939.24	0.943

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	107800	939.20	0.943
* Potentially Toxic Blue Green	2230	84.20	0.065

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