

REPORT

Report no:

286398

Depth :

N/A

Supercedes Report No:

Chlorophyll a:

NA

Microcystin equivalents:

NA

Date analysed:

13/06/2023

Lims No: L23044639

Date Sampled:

25/05/2023

Analyst:

Client ID: 234296

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
<u>Cyanophyta (Blue green)</u>				
<i>Anagnostidinema</i>	40558		1,224.85	0.715
<i>Cocoid Blue Green Picoplankton</i>	1410660	Filter clogging?	2,680.25	0.636
<i>Cuspidothrix issatschenkoi</i>	8103		413.25	0.439
<i>Dolichospermum affine</i>	2498		101.66	0.116
<i>Dolichospermum cf planctonicum/smithii</i>	1734	Taste & Odour	198.19	0.439
<i>Merismopedia</i>	14822		14.82	0.124
<i>Microcystis</i>	798	Potentially toxic, taste & odour	22.42	0.022
<i>Pseudanabaena</i>	71973		575.78	0.719
<i>Raphidiopsis</i>	1734	Potentially toxic	104.56	0.116
<i>Raphidiopsis raciborskii</i>	5883	Potentially toxic, taste & odour	222.37	0.172
Subtotal	1558763		5,558.15	3.498

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	1559000	5558.00	3.500
* Potentially Toxic Blue Green	6680	244.80	0.194

Comment:
Debris present in the sample.

*Taxa with potential to produce toxins.

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



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: 286398 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 13/06/2023
 Lims No: L23044640 Date Sampled: 25/05/2023 Analyst: [REDACTED]

Client ID: 234297 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	Biovolume mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaenopsis</i>	833	Potentially toxic	57.47	0.098
<i>Anagnostidinema</i>	17698		534.47	0.312
<i>Aphanizomenon gracile</i>	1596	Taste & Odour	78.52	0.080
<i>Aphanizomenonaceae</i>	1943	Potentially toxic, taste & odour	130.18	0.202
<i>Cocoid Blue Green Picoplankton</i>	849018	Filter clogging?	1,613.13	0.383
<i>Cuspidothrix issatschenkoi</i>	2151		109.70	0.116
<i>Microcystis</i>	2489	Potentially toxic, taste & odour	69.94	0.069
<i>Planktolyngbya</i>	119574	Filter clogging	1,195.74	9.565
<i>Pseudanabaena</i>	5911		47.28	0.059
<i>Raphidiopsis</i>	6388	Potentially toxic	385.19	0.430
<i>Raphidiopsis raciborskii</i>	4787	Potentially toxic, taste & odour	180.94	0.140
<i>Spirulina</i>	2212		33.18	0.008
<i>Synechococcus cf</i>	1659		20.40	0.011
Subtotal	1016259		4,456.14	11.473

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1016000	4456.00	11.470
* Potentially Toxic Blue Green	10050	438.50	0.509

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

Phycology

Sydney Water Approved Signatory:

[REDACTED], Analyst
[REDACTED], Analyst

[REDACTED], Analyst ,



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REPORT

Report no:

286398

Depth :

N/A

Supercedes Report No:

Chlorophyll a:

NA

Microcystin equivalents:

NA

Date analysed:

16/06/2023

Lims No: L23044641

Date Sampled:

25/05/2023

Analyst:

Client ID: 234298

Address:

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water

Laboratory Services

Issued On : 17/06/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaenopsis</i>	572	Potentially toxic	39.46	0.067
<i>Anagnostidinema</i>	1561		47.14	0.027
<i>Cocoid Blue Green Picoplankton</i>	579529	Filter clogging?	1,101.10	0.261
<i>Cuspidothrix issatschenkoi</i>	1263		64.41	0.068
<i>Dolichospermum affine</i>	796		32.39	0.036
<i>Merismopedia</i>	7079		7.07	0.059
<i>Pseudanabaena</i>	83182		665.45	0.831
<i>Raphidiopsis raciborskii</i>	2465	Potentially toxic, taste & odour	93.17	0.072
<i>Sphaerospermopsis aphanizomenoides</i>	1856		55.68	0.069
<i>Sphaerospermopsis reniformis</i>	260	Taste & Odour	10.42	0.012
<i>Synechococcus cf</i>	885		10.88	0.005
Subtotal	679448		2,127.17	1.507

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	679400	2127.00	1.510
* Potentially Toxic Blue Green	3040	132.60	0.139

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

Phycology

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REPORT

Report no:

286398

Depth :

N/A

Supercedes Report No:

Chlorophyll a:

NA

Microcystin equivalents:

NA

Date analysed:

13/06/2023

Lims No: L23044642

Date Sampled:

25/05/2023

Analyst:

Client ID: 234299

Address:

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water

Laboratory Services

Issued On : 17/06/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaena</i>	278	Taste & Odour	40.86	0.029
<i>Anabaenopsis</i>	208	Potentially toxic	14.35	0.024
<i>Cocoid Blue Green Picoplankton</i>	718549	Filter clogging?	1,365.24	0.324
<i>Cuspidothrix issatschenkoi</i>	5645		287.89	0.306
<i>Microcystis</i>	555	Potentially toxic, taste & odour	15.59	0.015
<i>Non toxic Aphanizomenonaceae</i>	1335	Taste & Odour	54.73	0.059
<i>Pseudanabaena</i>	39821		318.56	0.398
<i>Raphidiopsis</i>	260	Potentially toxic	15.67	0.017
<i>Raphidiopsis raciborskii</i>	2137	Potentially toxic, taste & odour	80.77	0.062
<i>Sphaerospermopsis aphanizomenoides</i>	624		18.72	0.023
Subtotal	769412		2,212.38	1.257

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	769400	2212.00	1.260
* Potentially Toxic Blue Green	2900	110.70	0.101

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

Phycology

Sydney Water Approved Signatory:

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REPORT

Report no: 286398 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 13/06/2023
 Analyst: [REDACTED]

Lims No: L23044643

Date Sampled: 25/05/2023

Client ID: 234300

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	Biovolume mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaenopsis</i>	364	Potentially toxic	25.11	0.043
<i>Anagnostidinema</i>	8825		266.51	0.155
<i>Aphanizomenonaceae</i>	451	Potentially toxic, taste & odour	30.21	0.046
<i>Cocoid Blue Green Picoplankton</i>	554840	Filter clogging?	1,054.19	0.250
<i>Cuspidothrix issatschenkoi</i>	5371		273.92	0.291
<i>Dolichospermum affine</i>	2518		102.48	0.117
<i>Merismopedia</i>	8849		8.84	0.074
<i>Microcystis</i>	2212	Potentially toxic, taste & odour	62.15	0.061
<i>Planktolyngbya</i>	11061	Filter clogging	110.61	0.884
<i>Pseudanabaena</i>	86500		692.00	0.865
<i>Raphidiopsis</i>	728	Potentially toxic	43.89	0.049
<i>Raphidiopsis raciborskii</i>	694	Potentially toxic, taste & odour	26.23	0.020
<i>Sphaerospermopsis aphanizomenoides</i>	1110		33.30	0.041
Subtotal	683523		2,729.44	2.896

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	683500	2729.00	2.900
* Potentially Toxic Blue Green	3720	143.70	0.170

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; *Cyanodictyon*

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