

REPORT

Report no: 285315 Depth : N/A
 Supercedes Report No: 285252 Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 25/05/2023

Lims No: L23038838 Date Sampled: 7/05/2023 Analyst: [REDACTED]

Client ID: 233002 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
Cyanophyta (Blue green)				
<i>Coccoid Blue Green Picoplankton</i>	25020	Filter clogging?	47.53	0.011
<i>Merismopedia</i>	1106		1.10	0.009
Subtotal	26126		48.63	0.020
	Cells/ mL		ASU/ mL	Biovolume mm3/L
Total Blue Green	26130		48.60	0.020
* 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 400µm² 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:

██████████, Analyst

██████████, Supervisor



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

REPORT

Report no: 285315 Depth : N/A
 Supercedes Report No: 285252 Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 26/05/2023
 Analyst: [REDACTED]

Lims No: L23038839

Date Sampled: 7/05/2023

Client ID: 233004

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

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

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolume mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaenopsis</i>	347	Potentially toxic	23.94	0.041
<i>Anagnostidinema</i>	13274		400.87	0.234
<i>Cocoid Blue Green Picoplankton</i>	34843	Filter clogging?	66.20	0.015
<i>Cuspidothrix issatschenkoi</i>	1388		70.78	0.075
<i>Dolichospermum</i>	1388	Potentially toxic, taste & odour	126.86	0.225
<i>Myxobaktron</i>	3318		58.39	0.016
<i>Non toxic Aphanizomenonaceae</i>	1249	Taste & Odour	51.20	0.055
<i>Planktolyngbya</i>	35618	Filter clogging	356.18	2.849
<i>Pseudanabaena</i>	69023		552.18	0.690
<i>Raphidiopsis</i>	2212		133.38	0.149
<i>Raphidiopsis raciborskii</i>	7076	Potentially toxic, taste & odour	267.47	0.207
<i>Sphaerospermopsis reniformis</i>	2359	Taste & Odour	94.59	0.109
<i>Spirulina</i>	53510		802.65	0.199
Subtotal	225605		3,004.69	4.864

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	225600	3005.00	4.860
* Potentially Toxic Blue Green	8810	418.30	0.473

Comment:

Debris present in the sample.

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

Phycology

Sydney Water Approved Signatory:

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██████████, Supervisor



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Report no: 285315 Depth : N/A
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 Microcystin equivalents: NA
 Date analysed: 25/05/2023

Lims No: L23038840 Date Sampled: 7/05/2023 Analyst: [REDACTED]

Client ID: 233006 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
<u>Cyanophyta (Blue green)</u>				
<i>Anabaenopsis</i>	520	Potentially toxic	35.88	0.061
<i>Cocoid Blue Green Picoplankton</i>	59469	Filter clogging?	112.99	0.026
<i>Merismopedia</i>	2758		2.75	0.023
<i>Planktolyngbya</i>	1106	Filter clogging	11.06	0.088
Subtotal	63853		162.68	0.198
	Cells/ mL		ASU/ mL	Biovolume mm3/L
Total Blue Green	63850		162.70	0.198
* Potentially Toxic Blue Green	520		35.90	0.061

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

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 Supercedes Report No: 285252 Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 26/05/2023

Lims No: L23038841 Date Sampled: 7/05/2023 Analyst: [REDACTED]

Client ID: 233008 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
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	3538763	Filter clogging?	6,723.64	1.597
<i>Dolichospermum affine</i>	1318		53.64	0.061
<i>Microcystis</i>	1179	Potentially toxic, taste & odour	33.12	0.032
<i>Planktolyngbya</i>	89081	Filter clogging	890.81	7.126
<i>Raphidiopsis raciborskii</i>	1388	Potentially toxic, taste & odour	52.46	0.040
Subtotal	3631729		7,753.67	8.856

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	3632000	7754.00	8.860
* Potentially Toxic Blue Green	2570	85.60	0.072

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

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 Date analysed: 25/05/2023

Lims No: L23038842 Date Sampled: 7/05/2023 Analyst: [REDACTED]

Client ID: 233010 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
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	34028	Filter clogging?	64.65	0.015
<i>Merismopedia</i>	2212		2.21	0.018
<i>Microcystis</i>	277	Potentially toxic, taste & odour	7.78	0.007
<i>Myxobaktron</i>	138		2.42	0.000
<i>Planktolyngbya</i>	7605	Filter clogging	76.05	0.608
<i>Spirulina</i>	553		8.29	0.002
Subtotal	44813		161.40	0.650

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	44810	161.40	0.650
* Potentially Toxic Blue Green	277	7.78	0.007

Comment:

Debris present in the sample.

*Taxa with potential to produce toxins.

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

Phycology

Sydney Water Approved Signatory:

██████████ itten, Analyst

██████████, Supervisor



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 Date analysed: 26/05/2023
 Analyst: [REDACTED]

Lims No: L23038843 Date Sampled: 7/05/2023

Client ID: 233012 Address: [REDACTED]
 Site: [REDACTED]

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
<u>Cyanophyta (Blue green)</u>				
<i>Anagnostidinema</i>	2151		64.96	0.037
<i>Cocoid Blue Green Picoplankton</i>	1371835	Filter clogging?	2,606.48	0.619
<i>Cuspidothrix issatschenkoi</i>	746		38.04	0.040
<i>Dolichospermum affine</i>	1686		68.62	0.078
<i>Dolichospermum cf planctonicum/smithii</i>	173	Taste & Odour	19.77	0.043
<i>Merismopedia</i>	11799		11.79	0.099
<i>Pseudanabaena</i>	79052		632.41	0.790
<i>Raphidiopsis</i>	520		31.35	0.035
<i>Raphidiopsis raciborskii</i>	4136	Potentially toxic, taste & odour	156.34	0.121
<i>Sphaerospermopsis aphanizomenoides</i>	1613		48.39	0.060
<i>Synechococcus cf</i>	1475		18.14	0.009
Subtotal	1475186		3,696.29	1.931

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	1475000	3696.00	1.930
* Potentially Toxic Blue Green	4140	156.30	0.121

Comment:

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

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 Supercedes Report No: 285252 Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 26/05/2023
 Analyst: [REDACTED]

Lims No: L23038844

Date Sampled: 7/05/2023

Client ID: 233014

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
<u>Cyanophyta (Blue green)</u>				
<i>Anabaena</i>	30234	Taste & Odour	4,444.39	3.204
<i>Anabaenopsis</i>	1873	Potentially toxic	129.23	0.222
<i>Anagnostidinema</i>	10324		311.78	0.182
<i>Cocoid Blue Green Picoplankton</i>	1124723	Filter clogging?	2,136.97	0.507
<i>Cuspidothrix issatschenkoi</i>	4163		212.31	0.225
<i>Dolichospermum affine</i>	5703		232.11	0.265
<i>Dolichospermum cf planctonicum/smithii</i>	2237	Taste & Odour	255.68	0.566
<i>Limnothrix</i>	7770	Potentially toxic	77.70	0.097
<i>Planktolyngbya</i>	42697	Filter clogging	426.97	3.415
<i>Pseudanabaena</i>	280222		2,241.77	2.802
<i>Raphidiopsis</i>	19911		1,200.63	1.342
<i>Raphidiopsis raciborskii</i>	14971	Potentially toxic, taste & odour	565.90	0.439
<i>Sphaerospermopsis aphanizomenoides</i>	15651		469.53	0.589
Subtotal	1560479		12,704.97	13.855

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	1560000	12700.00	13.860
* Potentially Toxic Blue Green	24610	772.80	0.758

Comment:

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

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