

REPORT

Report no:

282169

Depth :

N/A

Supercedes Report No:

Chlorophyll a:

NA

Microcystin equivalents:

NA

Date analysed:

3/04/2023

Lims No: L23028277

Date Sampled:

30/03/2023

Analyst:

Client ID: 232075

Address:

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

Issued By : Sydney Water

Laboratory Services

Issued On : 03/04/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaena</i>	208	Taste & Odour	30.57	0.022
<i>Anabaenopsis</i>	104	Potentially toxic	7.17	0.012
<i>Anagnostidinema</i>	728		21.98	0.012
<i>Aphanizomenonaceae</i>	1526	Potentially toxic, taste & odour	102.24	0.158
<i>Cocoid Blue Green Picoplankton</i>	181573	Filter clogging?	344.98	0.081
<i>Merismopedia</i>	18804		18.80	0.158
<i>Microcystis</i>	40706	Potentially toxic, taste & odour	1,143.83	1.132
<i>Myxobaktron</i>	1936		34.07	0.009
<i>Non toxic Aphanizomenonaceae</i>	451	Taste & Odour	18.49	0.020
<i>Planktolyngbya</i>	3191	Filter clogging	31.91	0.255
<i>Planktothrix</i>	2706	Potentially toxic	186.71	0.512
<i>Pseudanabaena</i>	1936		15.48	0.019
<i>Romeria</i>	553		8.84	0.003
<i>Snowella</i>	4425		54.87	0.034
<i>Spirulina</i>	1106		16.59	0.004
<i>Synechococcus cf</i>	2710		33.33	0.018
Subtotal	262663		2,069.86	2.449
<u>Chrysophyta (Golden brown)</u>				
<i>Chrysochromulina</i>	830	potentially ichthyotoxic - (?) toxic to fish	24.23	0.021
Subtotal	830		24.23	0.021
<u>Bacillariophyta (Diatom)</u>				
<i>Acanthoceras</i>	69	Filter clogging	152.49	0.390
<i>Aulacoseira</i>	1582	Filter clogging	643.87	0.950
<i>Cyclotella</i>	7301	Filter clogging	496.46	0.569

REPORT

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 Microcystin equivalents: NA
 Date analysed: 3/04/2023
 Analyst: [REDACTED]

Lims No: L23028277

Date Sampled: 30/03/2023

Client ID: 232075

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

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 Laboratory Services
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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<i>Cyclotella species 4</i>	277	Filter clogging	432.42	3.901
<i>Cyclotella/Stephanodiscus</i>	1659	Filter clogging	88.75	0.131
<i>Navicula</i>	277		372.56	0.467
<i>Nitzschia</i>	2081		449.49	0.210
<i>Synedra</i>	139		82.56	0.076
Subtotal	13385		2,718.60	6.694
<u>Euglenophyta (Euglenoid)</u>				
<i>Euglena</i>	69	Discolouration of water	121.99	0.159
<i>Trachelomonas</i>	277	Common after flood	777.26	0.626
Subtotal	346		899.25	0.785
<u>Chlorophyta (Green)</u>				
<i>Actinastrum</i>	2489		156.80	0.052
<i>Ankistrodesmus</i>	3318		1,247.56	0.447
<i>Chlamydomonas</i>	277	Taste & Odour	22.16	0.023
<i>Crucigenia</i>	830		6.64	0.015
<i>Dictyosphaerium</i>	8904		641.08	0.133
<i>Elakatothrix</i>	553		48.11	0.021
<i>Kirchneriella</i>	2765		138.25	0.052
<i>Koliella</i>	830	Filter clogging	12.45	0.001
<i>Monoraphidium cf</i>	4701		125.98	0.091
<i>Oocystis</i>	3650		346.75	0.372
<i>Pediastrum</i>	6388		766.56	0.300
<i>Planctonema</i>	2151		178.53	0.243
<i>Scenedesmus species 1</i>	8904		694.51	0.488
<i>Scenedesmus species 2</i>	1106		551.67	0.979
<i>Schroederia</i>	1106		224.51	0.151

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolume mm3/L
<i>Staurastrum</i>	277		1,465.60	0.574
<i>Tetraedron</i>	1383		587.77	0.138
<i>Treubaria</i>	277		17.45	0.022
Subtotal	49909		7,232.38	4.102
Miscellaneous				
<i>Haptophyte</i>	830		80.26	0.133
Subtotal	830		80.26	0.133
Cryptophyta (Monad)				
<i>Chroomonas</i>	1659	Common after flood	398.16	0.411
<i>Cryptomonas</i>	277	Common after flood, Taste & Odour	149.58	0.263
Subtotal	1936		547.74	0.674

	Cells/ mL	ASU/ mL	Biovolume mm3/L
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Total Blue Green	262700	2070.00	2.450
* Potentially Toxic Blue Green	45040	1440.00	1.810
* Potentially Toxic Algae	45870	1464.00	1.840
Total Algae	329900	13570.00	14.860

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.

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

REPORT

Report no: 282169 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 1/04/2023
 Analyst: [REDACTED]

Lims No: L23028279

Date Sampled: 30/03/2023

Client ID: 232079

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

Issued By : Sydney Water
 Laboratory Services
 Issued On : 03/04/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Aphanizomenonaceae</i>	642	Potentially toxic, taste & odour	43.01	0.066
<i>Cocoid Blue Green Picoplankton</i>	70037	Filter clogging?	133.07	0.031
<i>Merismopedia</i>	14749		14.74	0.124
<i>Microcystis</i>	35618	Potentially toxic, taste & odour	1,000.86	0.990
<i>Planktolyngbya</i>	10693	Filter clogging	106.93	0.855
<i>Pseudanabaena</i>	8480		67.84	0.084
<i>Pseudanabaena galeata</i>	6637		244.90	0.203
<i>Raphidiopsis raciborskii</i>	572	Potentially toxic, taste & odour	21.62	0.016
<i>Spirulina</i>	1475		22.12	0.005
<i>Synechococcus cf</i>	1475		18.14	0.009
Subtotal	150378		1,673.23	2.383
<u>Chrysophyta (Golden brown)</u>				
<i>Chrysochromulina</i>	369	potentially ichthyotoxic - (?) toxic to fish	10.77	0.009
<i>Dichotomococcus</i>	1475		18.43	0.012
Subtotal	1844		29.20	0.021
<u>Bacillariophyta (Diatom)</u>				
<i>Aulacoseira</i>	352	Filter clogging	143.26	0.211
<i>Cyclotella</i>	3871	Filter clogging	263.22	0.301
<i>Cyclotella species 4</i>	17	Filter clogging	26.53	0.239
<i>Cyclotella/Stephanodiscus</i>	1327	Filter clogging	70.99	0.105
<i>Nitzschia</i>	541		116.85	0.054
Subtotal	6108		620.85	0.910
<u>Dinophyta (Dinoflagellate)</u>				

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Date analysed: 1/04/2023

Lims No: L23028279

Date Sampled: 30/03/2023

Analyst: [REDACTED]

Client ID: 232079

Address: [REDACTED]

Site:

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<i>Peridinium species 1</i>	17		17.00	0.071
Subtotal	17		17.00	0.071
<u>Euglenophyta (Euglenoid)</u>				
<i>Euglena</i>	156	Discolouration of water	275.80	0.360
<i>Phacus</i>	35		221.83	0.121
<i>Trachelomonas</i>	553	Common after flood	1,551.71	1.250
Subtotal	744		2,049.34	1.731
<u>Chlorophyta (Green)</u>				
<i>Ankistrodesmus</i>	4240		1,594.24	0.572
<i>Dictyosphaerium</i>	1844		132.76	0.027
<i>Kirchneriella</i>	4425		221.25	0.084
<i>Koliella</i>	369	Filter clogging	5.53	0.000
<i>Lagerheimia</i>	184		35.51	0.044
<i>Micractinium</i>	2212		28.75	0.033
<i>Monoraphidium arcuatum</i>	17		4.61	0.003
<i>Monoraphidium cf</i>	8296		222.33	0.162
<i>Pediastrum</i>	208		24.96	0.009
<i>Scenedesmus species 1</i>	15117		1,179.12	0.829
<i>Tetraedron</i>	737		313.22	0.073
<i>Tetrastrum</i>	2212		303.04	0.380
<i>Treubaria</i>	184		11.59	0.015
Subtotal	40045		4,076.91	2.231
<u>Cryptophyta (Monad)</u>				
<i>Cryptomonas</i>	553	Common after flood, Taste & Odour	298.62	0.525
Subtotal	553		298.62	0.525

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	150400	1673.00	2.380
* Potentially Toxic Blue Green	36830	1065.00	1.070
* Potentially Toxic Algae	37200	1076.00	1.080
Total Algae	199700	8765.00	7.870

Comment:

Debris present in the sample.

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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:

[REDACTED]

[REDACTED]



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REPORT

Report no:

282169

Depth :

N/A

Supercedes Report No:

Chlorophyll a:

NA

Microcystin equivalents:

NA

Date analysed:

3/04/2023

Lims No: L23028281

Date Sampled:

30/03/2023

Analyst:

Client ID: 232083

Address:

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

Issued By : Sydney Water

Laboratory Services

Issued On : 03/04/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaenopsis</i>	2212	Potentially toxic	152.62	0.262
<i>Cocoid Blue Green Picoplankton</i>	1080643	Filter clogging?	2,053.22	0.487
<i>Dolichospermum</i>	833	Potentially toxic, taste & odour	76.13	0.135
<i>Merismopedia</i>	22123		22.12	0.186
<i>Microcystis</i>	32299	Potentially toxic, taste & odour	907.60	0.898
<i>Planktolyngbya</i>	5619	Filter clogging	56.19	0.449
<i>Pseudanabaena</i>	9567		76.53	0.095
<i>Raphidiopsis raciborskii</i>	869	Potentially toxic, taste & odour	32.84	0.025
<i>Sphaerospermopsis reniformis</i>	2081	Taste & Odour	83.44	0.096
<i>Synechococcus cf</i>	1106		13.60	0.007
Subtotal	1157352		3,474.29	2.640
<u>Chrysophyta (Golden brown)</u>				
<i>Synura</i>	139	Taste & Odour	5.97	0.003
Subtotal	139		5.97	0.003
<u>Bacillariophyta (Diatom)</u>				
<i>Aulacoseira</i>	1249	Filter clogging	508.34	0.750
<i>Cyclotella</i>	5531	Filter clogging	376.10	0.431
<i>Cyclotella species 4</i>	69	Filter clogging	107.71	0.971
<i>Cyclotella/Stephanodiscus</i>	1659	Filter clogging	88.75	0.131
<i>Navicula</i>	69		92.80	0.116
<i>Nitzschia</i>	971		209.73	0.098
<i>Synedra</i>	69		40.98	0.037
Subtotal	9617		1,424.41	2.534

REPORT

Report no: 282169 Depth : N/A
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 Microcystin equivalents: NA
 Date analysed: 3/04/2023
 Analyst: [REDACTED]

Lims No: L23028281

Date Sampled: 30/03/2023

Client ID: 232083

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

Issued By : Sydney Water
 Laboratory Services
 Issued On : 03/04/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Dinophyta (Dinoflagellate)</u>				
<i>Peridinium species 2</i>	69		300.35	3.567
Subtotal	69		300.35	3.567
<u>Euglenophyta (Euglenoid)</u>				
<i>Euglena</i>	486	Discolouration of water	859.24	1.124
<i>Phacus</i>	69		437.32	0.239
<i>Strombomonas</i>	139		111.89	0.027
<i>Trachelomonas</i>	1106	Common after flood	3,103.43	2.501
Subtotal	1800		4,511.88	3.891
<u>Chlorophyta (Green)</u>				
<i>Crucigenia</i>	8296		66.36	0.157
<i>Dictyosphaerium</i>	4425		318.60	0.066
<i>Kirchneriella</i>	3816		190.80	0.072
<i>Koliella</i>	2212	Filter clogging	33.18	0.003
<i>Monoraphidium cf</i>	7190		192.69	0.140
<i>Pediastrum</i>	278		33.36	0.013
<i>Planctonema</i>	278		23.07	0.031
<i>Scenedesmus species 1</i>	27654		2,157.01	1.517
<i>Tetraedron</i>	2212		940.10	0.221
Subtotal	56361		3,955.17	2.220
<u>Cryptophyta (Monad)</u>				
<i>Chroomonas</i>	6084	Common after flood	1,460.16	1.508
<i>Cryptomonas</i>	553	Common after flood, Taste & Odour	298.62	0.525
Subtotal	6637		1,758.78	2.033

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1157000	3474.00	2.640
* Potentially Toxic Blue Green	36210	1169.00	1.320
* Potentially Toxic Algae	36210	1169.00	1.320
Total Algae	1232000	15430.00	16.890

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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REPORT

Report no: 282169 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 1/04/2023
 Analyst: [REDACTED]

Lims No: L23028283 Date Sampled: 30/03/2023

Client ID: 232087

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

Issued By : Sydney Water
 Laboratory Services
 Issued On : 03/04/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm ³ /L
<u>Cyanophyta (Blue green)</u>				
<i>Cocoid Blue Green Picoplankton</i>	233064	Filter clogging?	442.82	0.105
<i>Merismopedia</i>	11034		11.03	0.092
<i>Microcystis</i>	14601	Potentially toxic, taste & odour	410.28	0.406
<i>Planktolyngbya</i>	9955	Filter clogging	99.55	0.796
<i>Pseudanabaena</i>	12721		101.76	0.127
<i>Synechococcus cf</i>	2212		27.20	0.014
Subtotal	283587		1,092.64	1.540
<u>Bacillariophyta (Diatom)</u>				
<i>Aulacoseira</i>	347	Filter clogging	141.22	0.208
<i>Cyclotella</i>	2212	Filter clogging	150.41	0.172
<i>Cyclotella/Stephanodiscus</i>	2157	Filter clogging	115.39	0.170
<i>Nitzschia</i>	1327		286.63	0.134
Subtotal	6043		693.65	0.684
<u>Euglenophyta (Euglenoid)</u>				
<i>Euglena</i>	208	Discolouration of water	367.74	0.481
<i>Strombomonas</i>	69		55.54	0.013
Subtotal	277		423.28	0.494
<u>Chlorophyta (Green)</u>				
<i>Actinastrum</i>	830		52.29	0.017
<i>Chlamydomonas</i>	1936	Taste & Odour	154.88	0.164
<i>Dictyosphaerium</i>	4978		358.41	0.074
<i>Kirchneriella</i>	3595		179.75	0.068
<i>Koliella</i>	1659	Filter clogging	24.88	0.002

REPORT

Report no: 282169

Depth : N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 1/04/2023

Lims No: L23028283

Date Sampled: 30/03/2023

Analyst:

Client ID: 232087

Address:

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolume mm3/L
<i>Micractinium</i>	1991		25.88	0.029
<i>Monoraphidium cf</i>	1936		51.88	0.037
<i>Oocystis</i>	1991		189.14	0.203
<i>Pediastrum</i>	833		99.96	0.039
<i>Planctonema</i>	833		69.13	0.094
<i>Scenedesmus species 1</i>	9457		737.64	0.518
<i>Tetraedron</i>	1106		470.05	0.110
<i>Tetrastrum</i>	4203		575.81	0.722
<i>Treubaria</i>	553		34.83	0.045
Subtotal	35901		3,024.53	2.122
<u>Cryptophyta (Monad)</u>				
<i>Chroomonas</i>	5807	Common after flood	1,393.68	1.440
<i>Cryptomonas</i>	830	Common after flood, Taste & Odour	448.20	0.788
Subtotal	6637		1,841.88	2.228

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	283600	1093.00	1.540
* Potentially Toxic Blue Green	14600	410.30	0.406
* Potentially Toxic Algae	14600	410.30	0.406
Total Algae	332400	7076.00	7.070

Comment:

Debris present in the sample.

*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals $400\mu\text{m}^2$ 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]

[REDACTED]



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 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 1/04/2023
 Analyst: [REDACTED]

Lims No: L23028285

Date Sampled: 30/03/2023

Client ID: 232091

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

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 Laboratory Services
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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anagnostidinema</i>	659		19.90	0.011
<i>Cocoid Blue Green Picoplankton</i>	69106	Filter clogging?	131.30	0.031
<i>Merismopedia</i>	2212		2.21	0.018
<i>Microcystis</i>	13661	Potentially toxic, taste & odour	383.87	0.380
<i>Planktothrix</i>	2341	Potentially toxic	161.52	0.443
<i>Pseudanabaena</i>	4701		37.60	0.047
<i>Raphidiopsis raciborskii</i>	208	Potentially toxic, taste & odour	7.86	0.006
<i>Spirulina</i>	2489		37.33	0.009
<i>Synechococcus cf</i>	553		6.80	0.003
Subtotal	95930		788.39	0.948
<u>Bacillariophyta (Diatom)</u>				
<i>Aulacoseira</i>	347	Filter clogging	141.22	0.208
<i>Cyclotella</i>	8213	Filter clogging	558.48	0.640
<i>Cyclotella species 4</i>	139	Filter clogging	216.99	1.957
<i>Cyclotella/Stephanodiscus</i>	2129	Filter clogging	113.90	0.168
<i>Navicula</i>	277		372.56	0.467
<i>Nitzschia</i>	278		60.04	0.028
<i>Skeletonema</i>	277	Filter clogging	207.75	0.018
Subtotal	11660		1,670.94	3.486
<u>Euglenophyta (Euglenoid)</u>				
<i>Euglena</i>	347	Discolouration of water	613.49	0.802
<i>Phacus</i>	69		437.32	0.239
Subtotal	416		1,050.81	1.041

REPORT

Report no: 282169

Depth : N/A

Supersedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 1/04/2023

Lims No: L23028285

Date Sampled: 30/03/2023

Analyst:

Client ID: 232091

Address:

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

Issued By : Sydney Water

Laboratory Services

Issued On : 03/04/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Chlorophyta (Green)</u>				
<i>Ankistrodesmus</i>	1936		727.93	0.261
<i>Crucigenia</i>	1106		8.84	0.021
<i>Dictyosphaerium</i>	7743		557.49	0.116
<i>Golenkinia</i>	277		19.39	0.050
<i>Kirchneriella</i>	830		41.50	0.015
<i>Monoraphidium cf</i>	2212		59.28	0.043
<i>Oocystis</i>	1659		157.60	0.169
<i>Planctonema</i>	2352		195.21	0.265
<i>Scenedesmus species 1</i>	19357		1,509.84	1.061
<i>Tetraedron</i>	277		117.72	0.027
Subtotal	37749		3,394.80	2.028
<u>Cryptophyta (Monad)</u>				
<i>Chroomonas</i>	1383	Common after flood	331.92	0.342
<i>Cryptomonas</i>	553	Common after flood, Taste & Odour	298.62	0.525
Subtotal	1936		630.54	0.867

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	95930	788.40	0.948
* Potentially Toxic Blue Green	16210	553.30	0.829
* Potentially Toxic Algae	16210	553.30	0.829
Total Algae	147700	7535.00	8.370

Comment:

Debris present in the sample.

*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals $400\mu\text{m}^2$ 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]

[REDACTED]



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