

REPORT Report no:

286820

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents:

23/06/2023 Date analysed:

NA

Page 1 of 2

Lims No: L23048469 6/06/2023 Analyst: Date Sampled:

Client ID: 234617

Address:

Site:

Client: **Department of Planning and Environment**

Method: **MA71CENT** Issued By: Sydney Water

Laboratory Services

Issued On: 24/06/2023

Disclaimer: Samples analysed as

received.

TAXA

Cells/	Significance	ASU/	Biovolum
mL		mL	mm3/L

Cyanophyta (Blue green)

Anabaenopsis	191	Potentially toxic	13.17	0.022
Coccoid Blue Green Picoplankton	1769824	Filter clogging?	3,362.66	0.799
Planktolyngbya	2212	Filter clogging	22.12	0.176
Sphaerospermopsis reniformis	173	Taste & Odour	6.93	0.008
Spirulina	3540		53.10	0.013
Subtotal	1775940		3,457.98	1.018

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1776000	3458.00	1.020
* Potentially Toxic Blue Green	191	13.20	0.022

Comment:

Debris present in the sample.

 $ASU: One\ ASU\ (Area\ Standard\ Unit)\ equals\ 400\mu m^2\ of\ algal\ cells\ (as\ cross\ sectional\ area)$

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

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

; Cyanodictyon

^{*}Taxa with potential to produce toxins.

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



PHYTOPLANKTON ANALYSIS

REPORT Report no:

Date Sampled:

286820

6/06/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed:

Analyst:

23/06/2023

Client ID: 234622

Address:

Site:

Lims No:

Client: **Department of Planning and Environment**

Method: **MA71CENT** Issued By: Sydney Water

Laboratory Services

Issued On: 24/06/2023

Disclaimer: Samples analysed as

received.

TAXA

Cells/ mL

774888

Significance

ASU/ mL

1,466.96

Biovolum mm3/L

0.396

Page 1 of 2

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	768989	Filter clogging?	1,461.07	0.347
Merismopedia	5899		5.89	0.049
Subtotal	774888		1 466 96	0 396

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	774900	1467.00	0.396
* 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 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

Sydney Water Approved Signatory: , Analyst , Analyst , Analyst ,



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Accreditation No.: 610 Biological testing



REPORT

Address:

286820

Depth:

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed:

Analyst:

Client ID: 234627

L23048473 *Date Sampled:*

6/06/2023

23/06/2023

N/A

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Disclaimer: Samples analysed as

received.

Laboratory Services
Issued On: 24/06/2023

TAXA

Cells/ mL Significance

ASU/ mL

Biovolum mm3/L

Page 1 of 1

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	486591	Filter clogging?	924.52	0.219
Subtotal	486591		924.52	0.219

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	486600	924.50	0.219
* 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.

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

; Cyanodictyon

Sydney Water Approved Signatory: , Analyst , Analyst ,



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Accreditation No.: 610 Biological testing

^{*}Taxa with potential to produce toxins.



REPORT Report no:

286820

6/06/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed:

23/06/2023

Page 1 of 2

Lims No: L23048475

Date Sampled:

Address:

Analyst:

Client ID: 234632 Site:

Client:

Department of Planning and Environment

Method: **MA71CENT** Issued By: Sydney Water

received.

Laboratory Services

Issued On: 24/06/2023

TAXA

Cells/ Significance ASU/ Biovolum mLmLmm3/L

Disclaimer: Samples analysed as

Cyanophyta (Blue green)

C	Coccoid Blue Green Picoplankton	1017428	Filter clogging?		1,933.11	0.459
N.	<i>1erismopedia</i>	5899			5.89	0.049
S_{I}	pirulina	2212			33.18	0.008
S	Subtotal	1025539			1,972.18	0.516
		Cells/		ASU/	Bio	ovolume
		mL		mL	n	nm3/L
	Total Blue Green	1026000		1972.00		0.516
	* Potentially Toxic Blue Green	0		0.00		0.000
	1					

Comment:

Debris present in the sample.

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

^{*}Taxa with potential to produce toxins.

Sydney Water Approved Signatory: , Analyst , Analyst , Analyst ,



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Accreditation No.: 610 Biological testing



PHYTOPLANKTON ANALYSIS

REPORT

Date Sampled:

286820

6/06/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a:

Microcystin equivalents: NA

Disclaimer: Samples analysed as

2512.00

NA

23/06/2023

Date analysed:
Analyst:

Client ID: 234637

7 Address:

Site:

Client:

Lims No:

Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services received.

Issued On: 24/06/2023

TAXA

Cells/ mL Significance

ASU/ mL

Biovolum mm3/L

0.597

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1322280	Filter clogging?	2,512.33	0.597
Subtotal	1322280		2,512.33	0.597

Cells/	ASU/	Biovolume
mL	mL	mm3/L

* Potentially Toxic Blue Green 0 0.000

Comment:

Total Blue Green

Debris present in the sample.

 $ASU: One\ ASU\ (Area\ Standard\ Unit)\ equals\ 400\mu m^2\ of\ algal\ cells\ (as\ cross\ sectional\ area)$

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

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

1322000

; Cyanodictyon

Sydney Water Approved Signatory: , Analyst , Analyst ,



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Accreditation No.: 610 Biological testing

^{*}Taxa with potential to produce toxins.



PHYTOPLANKTON ANALYSIS

REPORT

Date Sampled:

286820

6/06/2023

Depth:

Supercedes Report No: Chlorophyll a:

pphyll a: NA

Disclaimer: Samples analysed as

N/A

23/06/2023

Microcystin equivalents: NA

Date analysed:

Analyst:

Client ID: 234642

2 Address:

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services received.

Issued On: 24/06/2023

TAXA

Cells/ mL Significance

ASU/ mL

Biovolum mm3/L

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	822304	Filter clogging?	1,562.37	0.371
Subtotal	822304		1,562.37	0.371

	Cells/ mL	ASU/ mL	mm3/L
Total Blue Green	822300	1562.00	0.371
* Potentially Toxic Blue Green	0	0.00	0.000

Comment:

Debris present in the sample.

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

Sydney Water Approved Signatory: , Analyst , Analyst ,



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Accreditation No.: 610 Biological testing



^{*}Taxa with potential to produce toxins.



REPORT

286820

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed:

Analyst:

23/06/2023

Page 1 of 1

Lims No: L2304

L23048481 Date Sampled:

Address:

6/06/2023

Client ID: 234647 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Disclaimer: Samples analysed as received.

Laboratory Services

Issued On: 24/06/2023

TAXA

 $\begin{array}{cccc} Cells/ & Significance & ASU/ & Biovolum \\ mL & mL & mm3/L \end{array}$

Cyanophyta (Blue green)

7	Cyanophyta (Blue green)					
(Coccoid Blue Green Picoplankton	34843	Filter clogging?		66.20	0.015
2	Subtotal	34843			66.20	0.015
		Cells/ mL		ASU/ mL		olume n3/L
	Total Blue Green	34840		66.20		0.015
	* Potentially Toxic Blue Green	0		0.00		0.000

Comment:

Debris present in the sample.

 $ASU: One\ ASU\ (Area\ Standard\ Unit)\ equals\ 400\mu m^2\ of\ algal\ cells\ (as\ cross\ sectional\ area)$

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

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

; Cyanodictyon

Sydney Water Approved Signatory: , Analyst , Analyst , Analyst ,



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Accreditation No.: 610 Biological testing

^{*}Taxa with potential to produce toxins.



PHYTOPLANKTON ANALYSIS

REPORT

286820

Depth:

N/A

Supercedes Report No:

Chlorophyll a:
Microcystin equivalents:

NA NA

Disclaimer: Samples analysed as

A STI/

23/06/2023

Date analysed:

6/06/2023 Analyst:

Client ID: 234652

Address:

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Date Sampled:

Laboratory Services received.

Issued On: 24/06/2023

TAXA

Cells/ mL

Colle/

Significance

ASU/ mL Biovolum mm3/L

Riovolumo

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	473870	Filter clogging?	900.35 0.2	213
Subtotal	473870		900.35 0.2	213

	mL	mL	mm3/L
Total Blue Green	473900	900.40	0.213
* 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.

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

; Cyanodictyon

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^{*}Taxa with potential to produce toxins.