Sydney	PHYTOPLANKTON	ANALYSIS			Page 1 of 2
Sydney WATER	REPORT Report no:	284807	Depth :	N/A	
VVAITN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents:	NA	
			Date analysed:	18/05/2023	
Lims No: L23037167	Date Sampled:	30/04/2023	Analyst:		
Client ID: 232840 <i>Site:</i>	Address:				
Client: Department of Planning	g and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney Wat Laboratory Services Issued On : 19/05/2023		Disclaimer: Sampl received.	les analysed as	
TAXA					
	Cells/		Significance	ASU/	Biovolum
	mL			mL	mm3/L
<u>Cyanophyta (Blue green)</u>					
Anabaenopsis	278	Potent	ally toxic	19.18	0.032
Coccoid Blue Green Picoplankton	2024900	Filter o	logging?	3,847.31	0.914
Dolichospermum affine	451			18.35	0.020
Merismopedia	22123			22.12	0.186
Myxobaktron	2950			51.92	0.014
Planktolyngbya	11799	Filter o	logging	117.99	0.943
Sphaerospermopsis reniformis	885	Taste &	k Odour	35.48	0.041
Spirulina	1475			22.12	0.005
Synechococcus cf	4425			54.42	0.029
Subtotal	2069286			4,188.89	2.184
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	2069000			4189.00	2.180
* Potentially Toxic Blue Green	278			19.20	0.032

Debris present in the sample.

*Taxa with potential to produce toxins.

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

Phy	cology			
	Sydney Water Approved Signatory:			
	, Analyst , Analyst	, Supervisor	,	



Uncertainty estimates are available for all accredited test results.

Sydney	PHYTOPLANKTO	ON ANALYSI,	S	I	age 1 of 2
Sydney WATER	REPORT Report no:	284807	Depth :	N/A	
VVATEN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents:	NA	
			Date analysed:	18/05/2023	
Lims No: L23037168	Date Sampled:	30/04/2023	Analyst:		
Client ID: 232841 <i>Site:</i>	Address:				
Client: Department of Planni	ng and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney Laboratory Services Issued On : 19/05/2	1	Disclaimer: Sampl received.	les analysed as	
ТАХА					
	Cel m		Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Anabaenopsis	208	Pote	ntially toxic	14.35	0.024
Anagnostidinema	2220			67.04	0.039
Coccoid Blue Green Picoplankton	1380463	Filte	r clogging?	2,622.87	0.623
Merismopedia	23598			23.59	0.198
Myxobaktron	17919			315.37	0.090
Non toxic Aphanizomenonaceae	1110	Taste	& Odour	45.51	0.049
Planktolyngbya	25073	Filte	r clogging	250.73	2.005
Pseudanabaena	3677			29.41	0.036
Sphaerospermopsis aphanizomeno	ides 833			24.99	0.031
Sphaerospermopsis reniformis	1110	Taste	e & Odour	44.51	0.051
Spirulina	140			2.10	0.000
Subtotal	1456351			3,440.47	3.146
	Cells/ mL			ASU/	Biovolume mm3/L
Total Blue Green	1456000			3440.00	3.150
* Potentially Toxic Blue Green	208			14.40	0.024

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.

Phy	cology			
	Sydney Water Approved Signatory:			
	, Analyst , Analyst	, Supervisor	,	



Uncertainty estimates are available for all accredited test results.

Sudnov	PHYTOPLANKTON	N ANALYSIS			Page 1 of 2
Sydney WATER	REPORT Report no:	284807	Depth :	N/A	
VVAITN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents	: NA	
			Date analysed:	18/05/2023	
Lims No: L23037169	Date Sampled:	30/04/2023	Analyst:		
Client ID: 232842 <i>Site:</i>	Address:				
Client: Department of Planning	g and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney Wa Laboratory Services Issued On : 19/05/2023		Disclaimer: Samj received.	ples analysed as	
ТАХА					
	Cells/ mL		Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Anabaenopsis	156	Potent	ially toxic	10.	0.018
Coccoid Blue Green Picoplankton	851672	Filter	clogging?	1,618.	0.384
Merismopedia	3706			3.'	0.001
Microcystis	1141	Potent	ially toxic, taste & odour	32.0	0.031
Myxobaktron	3853			67.:	81 0.019
Planktolyngbya	11651	Filter	clogging	116.4	<u>51</u> 0.932
Pseudanabaena	2289			18.	<u>81</u> 0.022
Raphidiopsis raciborskii	312	Potent	ially toxic, taste & odour	11.	79 0.009
Spirulina	1106			16.4	59 0.004
Subtotal	875886			1,895.2	70 1.450
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	875900			1896.00	1.450
* Potentially Toxic Blue Green	1610			54.60	0.058

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

Phy	cology			
	Sydney Water Approved Signatory:			
	, Analyst , Analyst	, Supervisor	,	



Uncertainty estimates are available for all accredited test results.

Sudnou	PHYTOPLANKTON	ANALYSIS			Page 1 of 2
Sydney WATER	REPORT Report no:	284807	Depth :	N/A	
VVAITK	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents:	NA	
			Date analysed:	18/05/2023	
Lims No: L23037170	Date Sampled:	30/04/2023	Analyst:		
Client ID: 232843 <i>Site:</i>	Address:				
Client: Department of Planning	and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney Wa Laboratory Services Issued On : 19/05/2023		Disclaimer: Samp received.	oles analysed as	
ТАХА					
	Cells/ mL		Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Anagnostidinema	1457			44.0	0.025
Coccoid Blue Green Picoplankton	1197839	Filter	clogging?	2,275.8	0.540
Merismopedia	5899			5.8	0.049
Myxobaktron	4904			86.3	0.024
Pseudanabaena	2248			17.93	8 0.022
Raphidiopsis raciborskii	156	Potent	ially toxic, taste & odour	5.8	0.004
Sphaerospermopsis aphanizomenoide	es 451			13.5	3 0.016
Sphaerospermopsis reniformis	954	Taste &	& Odour	38.2	5 0.044
Spirulina	1475			22.1	2 0.005
Subtotal	1215383			2,509.80	6 0.729
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	1215000			2510.00	0.729
* Potentially Toxic Blue Green	156			5.89	0.004

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

Phy	cology			
	Sydney Water Approved Signatory:			
	, Analyst , Analyst	, Supervisor	,	



Uncertainty estimates are available for all accredited test results.

Sudnou	PHYTOPLANKTON	ANALYSIS	5		Page 1 of 2
Sydney WATER	REPORT Report no:	284807	Depth :	N/A	
VVAITN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalent	s: NA	
			Date analysed:	18/05/2023	
Lims No: L23037171	Date Sampled:	30/04/2023	Analyst:		
Client ID: 232844 <i>Site:</i>	Address:				
Client: Department of Planning	and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney Wa Laboratory Services Issued On : 19/05/2023		Disclaimer: San received.	nples analysed as	
ТАХА					
	Cells/ mL		Significance		SU/ Biovolum L mm3/L
<u>Cyanophyta (Blue green)</u>					
Anabaena	295	Taste	& Odour		43.36 0.031
Anabaenopsis	434	Poter	tially toxic		29.94 0.051
Coccoid Blue Green Picoplankton	905265	Filter	clogging?	1,7	20.00 0.408
Cuspidothrix issatschenkoi	503				25.65 0.027
Dolichospermum affine	139				5.65 0.006
Merismopedia	57685				57.68 0.485
Planktolyngbya	11061	Filter	clogging	1	10.61 0.884
Pseudanabaena	11061				88.48 0.110
Raphidiopsis raciborskii	763	Poter	tially toxic, taste & odour		28.84 0.022
Sphaerospermopsis reniformis	243	Taste	& Odour		9.74 0.011
Spirulina	7798			1	16.97 0.029
Subtotal	995247			2,2	36.92 2.064
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	995200			2237.00	2.060
* Potentially Toxic Blue Green	1200			58.80	0.073

Debris present in the sample.

*Taxa with potential to produce toxins.

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.

Phy	cology			
	Sydney Water Approved Signatory:			
	, Analyst , Analyst	, Supervisor	,	



Uncertainty estimates are available for all accredited test results.

Sydney	PHYTOPLANKTO	N ANALYSIS	1		Page 1 of 2
Sydney WATER	REPORT Report no:	284807	Depth :	N/A	
VVAICN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents:	NA	
			Date analysed:	18/05/2023	
Lims No: L23037172	Date Sampled:	30/04/2023	Analyst:		
Client ID: 232845 <i>Site:</i>	Address:				
Client: Department of Plannin	ng and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney W Laboratory Services Issued On : 19/05/20		Disclaimer: Samp received.	les analysed as	
ТАХА					
	Celle mL		Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Coccoid Blue Green Picoplankton	1383560	Filter	clogging?	2,628.70	6 0.624
Dolichospermum affine	347			14.12	2 0.016
Merismopedia	5899			5.8	0.049
Pseudanabaena	4943			39.54	4 0.049
Raphidiopsis raciborskii	364	Potent	ially toxic, taste & odour	13.7	5 0.010
Sphaerospermopsis eucompacta	173	Taste d	& Odour	5.12	2 0.005
Synechococcus cf	5899			72.5	5 0.039
Subtotal	1401185			2,779.73	3 0.792
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	1401000			2780.00	0.792
* Potentially Toxic Blue Green	364			13.80	0.010

Debris present in the sample.

*Taxa with potential to produce toxins.

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.

Phy	cology			
	Sydney Water Approved Signatory:			
	, Analyst , Analyst	, Supervisor	,	



Uncertainty estimates are available for all accredited test results.

Sydney	PHYTOPLANKTO	Page 1 of 2			
Sydney WATER	REPORT Report no:	284807	Depth :	N/A	
VVATEN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents:	NA	
			Date analysed:	18/05/2023	
Lims No: L23037173	Date Sampled:	30/04/2023	Analyst:		
Client ID: 232846 <i>Site:</i>	Address:				
Client: Department of Plannin	g and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney W Laboratory Services Issued On : 19/05/20.		Disclaimer: Samples analysed as received.		
ТАХА					
	Cells mL		Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Coccoid Blue Green Picoplankton	1400705	Filter	clogging?	2,661.3	3 0.632
Dolichospermum affine	87			3.5	4 0.004
Merismopedia	5899			5.8	9 0.049
Planktolyngbya	25073	Filter	clogging	250.7	3 2.005
Pseudanabaena	2232			17.8	5 0.022
Sphaerospermopsis aphanizomenoid	des 260			7.8	0 0.009
Synechococcus cf	6637			81.6	3 0.044
Subtotal	1440893			3,028.7	7 2.765
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	1441000			3029.00	2.770
* Potentially Toxic Blue Green	0			0.00	0.000

Debris present in the sample.

*Taxa with potential to produce toxins.

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.

Phyo	cology			
	Sydney Water Approved Signatory:			
	, Analyst , Analyst	, Supervisor	,	



Uncertainty estimates are available for all accredited test results.

Sydney	PHYTOPLANKTON ANALYSIS					I	Page 1 of 2
Sydney WATER	REPOR	Τ	284807	Depth :	N/A		
VVAIEN	Supercedes	Report No:		Chlorophyll a:	NA		
				Microcystin equivalents	: NA		
				Date analysed:	18/05/2	2023	
Lims No: L23037174	Date Sampl	ed:	30/04/2023	Analyst:			
Client ID: 232847 <i>Site:</i>	Address:						
Client: Department of Planning	g and Environ	ment					
<i>Method:</i> MA71CENT	Issued By : Sydney Water Laboratory Services Issued On : 19/05/2023			Disclaimer: Samples analysed as received.		ed as	
TAXA							
		Cells/ mL		Significance		ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>							
Coccoid Blue Green Picoplankton		3915072	Filter clog	ging?		7,438.63	1.767
Merismopedia		17698				17.69	0.149
Subtotal		3932770				7,456.32	1.916
		Cells/ mL			ASU/ mL]	Biovolume mm3/L
Total Blue Green		3933000			7456.00		1.920
* Potentially Toxic Blue Green		0			0.00		0.000

Sample contained debris and cells resembling bacteria.

*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.

Phy	cology			
	Sydney Water Approved Signatory:			
	, Analyst , Analyst	, Supervisor	3	



Uncertainty estimates are available for all accredited test results.