Gridmour	РНҮТО	PHYTOPLANKTON ANALYSIS					
	REPOR	Τ	286659	Depth :	N/A		
VVAITN	Supercedes	Report No:		Chlorophyll a:	NA		
				Microcystin equiva	lents: NA		
				Date analysed:	21/06/20	023	
<i>Lims No:</i> L23047367	Date Sample	led:	31/05/2023	Analyst:			
Client ID: 234504 Site:	Address:						
Client: Department of	Planning and Environ	iment					
<i>Method:</i> MA71CENT	Issue Labo Issue	d By : Sydney Wat ratory Services d On : 22/06/2023	er	Disclaimer: . received.	Samples analyse	d as	
ТАХА							
		Cells/ mL		Significance		ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue gree</u>	<u>n)</u>						
Coccoid Blue Green Picopl	lankton	658375	Filte	r clogging?		1,250.91	0.297
Merismopedia		2950				2.95	0.024
Subtotal		661325				1,253.86	0.321
		Cells/ mL			ASU/ mL		Biovolume mm3/L
Total Blue Green		661300			1254.00		0.321
* Potentially Toxic Blue G	reen	0			0.00		0.000

Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm<sup>2</sup> of algal cells (as cross sectional area)

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





Sydney		PHYTOPLANKT	PHYTOPLANKTON ANALYSIS					
		REPORT Report no:	286659	Depth :	N/A			
	4721	Supercedes Report No:		Chlorophyll a:	NA			
				Microcystin equivalen	ts: NA			
				Date analysed:	20/06/2023			
Lims No:	L23047368	Date Sampled:	31/05/2023	Analyst:				
Client ID: <i>Site</i> :	: 234508	Address:						
Client:	Department of Plan	ning and Environment						
Method:	MA71CENT	Issued By : Sydney Laboratory Service Issued On : 22/06/.	Water 's 2023	Disclaimer: San received.	nples analysed as			
TAX	A							
		Ce n	ells/ 1L	Significance	ASU/ mL	Biovolum mm3/L		
<u>Cyanoph</u>	<u>ıyta (Blue green)</u>							
Coccoid B	lue Green Picoplankto	n 926650	) Filte	r clogging?	1,760.63	3 0.418		
Cuspidoth	rix issatschenkoi	520	)		26.52	2 0.028		
Pseudanab	baena	2212	2		17.69	9 0.022		
Raphidiops	sis raciborskii	347	7 Pote	ntially toxic, taste & odour	13.11	0.010		
Subtotal	I	929729	)		1,817.95	5 0.478		
		Cells mL	/		ASU/ mL	Biovolume mm3/L		
Total Blu	lue Green	929700			1818.00	0.478		
* Potent	tially Toxic Blue Green	347			13.10	0.010		

Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm<sup>2</sup> of algal cells (as cross sectional area)

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

Phycology		
Sydney Water Approved Signatory:		
, Analyst	, Analyst	3



Guide		РНҮТО	PLANKTON	ANALYSI	S		P	age 1 of 2
Syai		REPOR Report no:	Т	286659	Depth :	N/A		
VV F	4 <i>1 ~ K</i>	Supercedes	Report No:		Chlorophyll a:	NA		
					Microcystin equiv	valents: NA		
					Date analysed:	21/06	5/2023	
Lims No:	L23047369	Date Sample	ed:	31/05/2023	Analyst:			
Client ID: <i>Site:</i>	234512	Address:						
Client:	Department of Pl	anning and Environ	ment					
Method:	MA71CENT	Issued Labor Issued	l By : Sydney Wate atory Services l On : 22/06/2023	er	Disclaimer received.	: Samples analy	rsed as	
TAX	4							
			Cells/ mL		Significance		ASU/ mL	Biovolum mm3/L
<u>Cyanoph</u>	yta (Blue green)							
Anabaenop	psis	•	833	Pote	ntially toxic		57.47	0.098
Anagnostic	dinema		7284				219.97	0.128
Aphanizon	nenonaceae	-	971	Pote	ntially toxic, taste & odour		65.05	0.100
Coccoid B	lue Green Picoplan	kton	2086622	Filte	r clogging?		3,964.58	0.942
Cuspidothi	rix issatschenkoi		12002				612.10	0.651
Merismope	edia		8849				8.84	0.074
Myxobaktr	on		3761				66.19	0.018
Non toxic 1	Aphanizomenonace	ae	2983	Tast	e & Odour		122.30	0.132
Planktolyn	egbya		30308	Filte	r clogging		303.08	2.424
Pseudanab	baena		158104				1,264.83	1.581
Raphidiop	sis raciborskii		1804	Pote	ntially toxic, taste & odour		68.19	0.052
Sphaerosp	ermopsis aphanizor	nenoides -	3386				101.58	0.127
Spirulina			416				6.24	0.001
Synechoco	ccus cf		2212				27.20	0.014
Subtotal	!		2319535				6,887.62	6.342
			Cells/ mL			ASU/ mL	В	iovolume mm3/L
Total Blu	ue Green		2320000			6888.00		6.340
* Potent	ially Toxic Blue Gree	en	3610			190.70		0.250

Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm<sup>2</sup> 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





associated uncertainty must be considered. Uncertainty estimates are available for all accredited test results.

Sydney WATER	PHYTC REPORT Supercede Date Samj	<b>DPLANKTON</b> <b><u>R</u>T s Report No: pled:</b>	ANALYS. 286659 31/05/2023	<b>IS</b> Depth : Chlorophyll a: Microcystin equive Date analysed: Analyst:	N/A NA alents: NA 21/06/	P 2023	'age 1 of 2
Client ID: 234516 <i>Site:</i>	Address:						
Client: Department of	of Planning and Enviro	nment					
<i>Method:</i> MA71CENT	Issu Lab Issu	ed By : Sydney Wate oratory Services ed On : 22/06/2023	er	Disclaimer: received.	Samples analys	ed as	
TAXA	Ň	Cells/ mL		Significance		ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue gree	<u>en)</u>					2.050.(2	
Coccold Blue Green Picop	Slankton	1084017	Filt	er clogging?		2,059.63	0.489
Cuspiaoinrix issuischenko Marismonodia	1	2804				143.00	0.152
Non toxic Anhanizomanon	140040	26547		4- 8 QJ		26.54	0.223
Planktolynghya	uceue	11700	Tas Eilt	er elegging		117.00	0.039
Pseudanahaena			FIIU	er ciogging		70.70	0.943
Raphidiopsis raciborskii			Pot	entially toxic taste & adour		18.37	0.088
Sphaerospermopsis renifo	rmis	28022	Tas	te & Odour		1.123.68	1 201
Spirulina		220022				33.18	0.008
Synechococcus cf		1475				18.14	0.009
Subtotal		1167096				3,647.60	3.266
		Cells/ mL			ASU/ mL	I	Biovolume mm3/L
Total Blue Green		1167000			3648.00		3.270
* Potentially Toxic Blue	Green	486			18.40		0.014

### 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.





Suda	nou	PHYTOPLANKTON ANALYSIS					
		REPORT Report no:	286659	Depth :	N/A		
~ ~ ~	4/20	Supercedes Report No:		Chlorophyll a:	NA		
				Microcystin equival	ents: NA		
				Date analysed:	21/06/20	23	
Lims No:	L23047371	Date Sampled:	31/05/2023	Analyst:			
Client ID: <i>Site:</i>	: 234520	Address:					
Client:	Department of Planning	g and Environment					
Method:	MA71CENT	Issued By : Sydney Wa Laboratory Services Issued On : 22/06/202	iter 3	Disclaimer: S received.	amples analysed	l as	
TAXA	A						
		Cells/ mL	1	Significance		ASU/ mL	Biovolum mm3/L
<u>Cyanoph</u>	<u>iyta (Blue green)</u>						
Coccoid Bi	lue Green Picoplankton	1107246	F	lilter clogging?		2,103.76	0.499
Dolichospe	ermum	780	P	otentially toxic, taste & odour		71.29	0.126
Sphaerospo	ermopsis reniformis	139	Т	`aste & Odour		5.57	0.006
Subtotal	!	1108165				2,180.62	0.631
		Cells/ mL			ASU/ mL	]	Biovolume mm3/L
Total Blu	ue Green	1108000			2181.00		0.631
* Potent	tially Toxic Blue Green	780			71.30		0.126

## 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





Lims No: L23047372 Client ID: 234524	REPORT Supercedes Report No: Date Sampled:	286659	Depth : Chlorophyll a: Microcystin equivalents: Date makedy	N/A NA NA	
Lims No: L23047372 Client ID: 234524	Supercedes Report No: Date Sampled:	31/05/2023	Chlorophyll a: Microcystin equivalents:	NA NA	
<i>Lims No:</i> L23047372 Client ID: 234524	Date Sampled:	31/05/2023	Microcystin equivalents:	NA	
<i>Lims No:</i> L23047372 Client ID: 234524	Date Sampled:	31/05/2023	Data analyzadı		
<i>Lims No:</i> L23047372 Client ID: 234524	Date Sampled:	31/05/2023	Date analysea.	21/06/2023	
Client ID: 234524	Advass.	01/03/2020	Analyst:		
Site:	Auuress.				
Client: Department of Plannin	g and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney Wate Laboratory Services Issued On : 22/06/2023	er	Disclaimer: Sample received.	es analysed as	
ТАХА					
	Cells/ mL		Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Anabaenopsis	555	Potentially	y toxic	38.29	0.065
Anagnostidinema	2498			75.43	0.044
Coccoid Blue Green Picoplankton	2820657	Filter clog	ging?	5,359.24	1.273
Cuspidothrix issatschenkoi	416			21.21	0.022
Dolichospermum	1077	Potentiall	y toxic, taste & odour	98.43	0.174
Merismopedia	23598			23.59	0.198
Microcystis	4673	Potentiall	y toxic, taste & odour	131.31	0.130
Myxobaktron	1475			25.96	0.007
Non toxic Aphanizomenonaceae	399	Taste & O	dour	16.35	0.017
Planktolyngbya	53758	Filter clog	ging	537.58	4.300
Pseudanabaena	36871			294.96	0.368
Raphidiopsis	1249	Potentiall	y toxic	75.31	0.084
Raphidiopsis raciborskii	10490	Potentiall	y toxic, taste & odour	396.52	0.307
Sphaerospermopsis aphanizomenoid	des 2151			64.53	0.081
Sphaerospermopsis reniformis	1388	Taste & O	dour	55.65	0.064
Spirulina	1499			22.48	0.005
Synechococcus cf	16961			208.62	0.114
Subtotal	2979715			7,445.46	7.253
	Cells/ mL			ASU/ B mL	iovolume mm3/L
Total Blue Green	2980000		7	445.00	7.250
* Potentially Toxic Blue Green	16800			664.60	0.676

### Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm<sup>2</sup> 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





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.

Sydney		РНҮТОР	PHYTOPLANKTON ANALYSIS						Page 1 of 2
	T.C.D	REPORT Report no:		286659	Dep	<i>th</i> :	N/A		
	1 ZN	Supercedes R	eport No:		Chle	prophyll a:	NA		
					Mic	rocystin equiva	alents: NA		
					Date	e analysed:	21/06/2	2023	
Lims No:	L23047373	Date Samplea	1:	31/05/2023	Ana	lyst:			
Client ID: 2. <i>Site:</i>	34528	Address:							
Client: D	Department of Pl	anning and Environm	ent						
Method:	MA71CENT	Issued 1 Labora Issued	By : Sydney Wat tory Services On : 22/06/2023	er		Disclaimer: received.	Samples analys	ed as	
ТАХА									
			Cells/ mL		Signit	ficance		ASU/ mL	Biovolum mm3/L
<u>Cyanophyt</u>	ta (Blue green)								
Anabaenopsi	is	_	208	I	Potentially toxic			14.35	0.024
Coccoid Blue	e Green Picoplan	kton —	1760090	I	ilter clogging?			3,344.17	0.794
Merismopedi	ia		5899					5.89	0.049
Non toxic Ap	hanizomenonaced	ae	173	1	faste & Odour			7.09	0.007
Phormidium	species 1		555	F	Potentially toxic,	taste & odour		9.32	0.011
Pseudanabae	ena	_	13274					106.19	0.132
Sphaerosperi	mopsis aphanizon	nenoides	624					18.72	0.023
Subtotal			1780823					3,505.73	1.040
			Cells/ mL				ASU/ mL	]	Biovolume mm3/L
Total Blue	Green		1781000				3506.00		1.040
* Potential	lly Toxic Blue Gree	en	763				23.70		0.035

# 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.



