Gradmore	PHYTOPLANKTO	N ANALYSI.	S		Page 1 of 2
	REPORT Report no:	285314	Depth :	N/A	
VVAITN	Supercedes Report No:	285253	Chlorophyll a:	NA	
			Microcystin equivalents:	NA	
			Date analysed:	25/05/2023	
Lims No: L23038822	Date Sampled:	6/05/2023	Analyst:		
Client ID: 232978 <i>Site:</i>	Address:				
Client: Department of Pla	anning and Environment				
<i>Method:</i> MA71CENT	Issued By : Commercial Client I Issued On : 29/05/20	Representative 123	Disclaimer: Samp received.	les analysed as	
ТАХА	Cell mI	s/	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Coccoid Blue Green Picoplant	<i>cton</i> <b>2944987</b>	Filte	r clogging?	5,595.47	1.329
Myxobaktron	369			6.49	0.001
Planktolyngbya	10342	Filte	r clogging	103.42	0.827
Sphaerospermopsis reniformis	520	Taste	e & Odour	20.85	5 0.024
Spirulina	369			5.53	3 0.001
Synechococcus cf	940			11.50	5 0.006
Subtotal	2957527			5,743.32	2.188
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	2958000			5743.00	2.190
* Potentially Toxic Blue Gree	n 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.

Sydney Water Approved Signatory:





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

Sudnou		PHYTOPLANKTON ANALYSIS						Pa	age 1 of 2
WAT & R		REPORT Report no:		285314	D	epth :	N/A		
		Supercedes Repor	t No:	285253	С	hlorophyll a:	NA		
					М	licrocystin equivale	ents: NA		
					D	ate analysed:	25/05/2	023	
Lims No:	L23038823	Date Sampled:		6/05/2023	A	nalyst:			
Client ID: <i>Site:</i>	232980	Address:							
Client:	Department of Plannin	g and Environment							
Method:	MA71CENT	Issued By : Commercia Issued On :	l Client Rep 29/05/2023	presentative 3	,	Disclaimer: So received.	amples analyse	d as	
TAXA	A								
	-		Cells/ mL		Sig	nificance		ASU/ mL	Biovolun mm3/L
<u>Cyanoph</u>	<u>yta (Blue green)</u>								
Anabaenop	osis		121		Potentially toxi	ic		8.34	0.014
Coccoid Bl	lue Green Picoplankton		3110908		Filter clogging	?		5,910.72	1.404
Merismope	edia		5899					5.89	0.049
Myxobaktro	on		737					12.97	0.003
Planktolyn	gbya		8849		Filter clogging			88.49	0.707
Pseudanab	paena		486					3.88	0.004
Spirulina			737					11.05	0.002
Subtotal			3127737					6,041.34	2.183
			Cells/ mL				ASU/ mL	В	iovolume mm3/L
Total Blu	ue Green	3	128000				6041.00		2.180
* Potenti	ially Toxic Blue Green		121				8.34		0.014

# 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.

Sydney Water Approved Signatory:





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

Gridmour		PHYTOPLANKTON ANALYSIS					
		REPORT Report no:	285314	Depth :	N/A		
~ ~	4/20	Supercedes Report No	<i>285253</i>	Chlorophyll a:	NA		
				Microcystin equiv	valents: NA		
				Date analysed:	25/05/2023		
Lims No:	L23038824	Date Sampled:	6/05/2023	3 Analyst:			
Client ID: <i>Site:</i>	232982	Address:					
Client:	Department of Plannin	g and Environment					
Method:	MA71CENT	Issued By : Commercial Cl Issued On : 29/	ient Representativ 05/2023	e Disclaimer received.	: Samples analysed as		
TAXA	A						
	-		Cells/ mL	Significance	AS	SU/ 1L	Biovolun mm3/L
<u>Cyanoph</u>	<u>vta (Blue green)</u>						
Aphanizom	nenonaceae		208	Potentially toxic, taste & odour		13.93	0.021
Coccoid Bl	lue Green Picoplankton	2703	3849	Filter clogging?	5,1	37.31	1.220
Dolichospe	ermum affine		364			14.81	0.016
Planktolyn	gbya	35	5396	Filter clogging	3	53.96	2.831
Pseudanab	paena		416			3.32	0.004
Spirulina			737			11.05	0.002
Synechoco	ccus cf		737			9.06	0.004
Subtotal		274	1707		5,5	43.44	4.098
		C	Cells/ mL		ASU/ mL	Bio	ovolume nm3/L
Total Blu	ue Green	27420	)00		5543.00		4.100
* Potenti	ially Toxic Blue Green	2	208		13.90		0.021

# 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.

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

Gradmore	PHYTOPLANKTO	PHYTOPLANKTON ANALYSIS					
	REPORT Report no.	285314	Depth :	N/A			
	Supercedes Report No:	285253	Chlorophyll a:	NA			
			Microcystin equivalents:	NA			
			Date analysed:	26/05/2023			
Lims No: L23038825	Date Sampled:	6/05/2023	Analyst:				
Client ID: 232984 <i>Site:</i>	Address:						
Client: Department of Pla	anning and Environment						
<i>Method:</i> MA71CENT	Issued By : Commercial Client Issued On : 29/05/2	Representative 023	Disclaimer: Sampl received.	les analysed as			
ТАХА							
	Cel	lls/ L	Significance	ASU/ mL	Biovolum mm3/L		
<u>Cyanophyta (Blue green)</u>							
Coccoid Blue Green Picoplant	kton 2044810	Filter	clogging?	3,885.13	3 0.923		
Pseudanabaena	588			4.70	) 0.005		
Raphidiopsis raciborskii	173	Poten	tially toxic, taste & odour	6.53	3 0.005		
Spirulina	1475			22.12	2 0.005		
Synechococcus cf	2212			27.20	) 0.014		
Subtotal	2049258			3,945.68	3 0.952		
	Cells/ mL			ASU/ mL	Biovolume mm3/L		
Total Blue Green	2049000		:	3946.00	0.952		
* Potentially Toxic Blue Gree	n 173			6.53	0.005		

## 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 Water Approved Signatory:





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

Sud	nou	PHYTOPLANKTO	) N ANALYSI	S		Pa	age 1 of 2
		REPORT Report no:	285314	Depth :	N/A		
~ ~ /	4/20	Supercedes Report No:	285253	Chlorophyll a:	NA		
				Microcystin equivalents	s: NA		
				Date analysed:	26/05/2023		
Lims No:	L23038826	Date Sampled:	6/05/2023	Analyst:			
Client ID: <i>Site:</i>	: 232986	Address:					
Client:	Department of Plannin	ng and Environment					
Method:	MA71CENT	Issued By : Commercial Client I Issued On : 29/05/20	Representative 923	Disclaimer: Sam received.	ples analysed as		
TAX	A						
		Cel m1	<b>ls</b> / L	Significance	AS n	SU/ nL	Biovolum mm3/L
<u>Cyanoph</u>	<u>nyta (Blue green)</u>						
Coccoid B	lue Green Picoplankton	793379	Filte	er clogging?	1,5	507.42	0.358
Planktolyn	ıgbya	5531	Filte	er clogging		55.31	0.442
Sphaerosp	permopsis reniformis	486	Tast	e & Odour		19.48	0.022
Subtotal	1	799396			1,5	582.21	0.822
		Cells/ mI			ASU/	В	iovolume mm3/I
		IIIL					
Total Bl	ue Green	799400			1582.00		0.822
* Potent	tially 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.

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

; Cyanodictyon

Sydney Water Approved Signatory:





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

Guda		PHYTOI	PLANKTON	NANALY.	SIS		Pa	age 1 of 2
		REPORT	Г	285314	Depth :	N/A		
VV A	ITN	Supercedes 1	Report No:	285253	Chlorophyll	a: NA		
					Microcystin	equivalents: NA		
					Date analyse	ed: 25/0	5/2023	
Lims No:	L23038827	Date Sample	ed:	6/05/2023	Analyst:			
Client ID: 2 <i>Site:</i>	:32988	Address:				1		
Client: 1	Department of Pla	nning and Environr	nent					
Method:	MA71CENT	Issued Comm Issued	By : Percial Client Re On : 29/05/202	presentative 3	Disclai receive	imer: Samples anal <u>;</u> ?d.	vsed as	
ТАХА								
			Cells/ mL	1	Significance		ASU/ mL	Biovolum mm3/L
<u>Cyanophy</u>	<u>ta (Blue green)</u>	_						
Anagnostidii	nema	-	624				18.84	0.011
Coccoid Blu	e Green Picoplankt	ton	1817609	F	ilter clogging?		3,453.45	0.820
Dolichosper	mum affine	_	87				3.54	0.004
Planktolyngi	bya	_	35396	F	ilter clogging		353.96	2.831
Pseudanaba	ena	-	16223				129.78	0.162
Sphaerosper	mopsis reniformis	-	416	Т	aste & Odour		16.68	0.019
Spirulina		-	2212				33.18	0.008
Synechococc	cus cf	-	2876				35.37	0.019
Subtotal			1875443				4,044.80	3.874
			Cells/ mL			ASU/ mL	В	iovolume mm3/L
Total Blue	Green		1875000			4045.00		3.870
* Potentia	lly Toxic Blue Green	1	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 Water Approved Signatory:





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

Gudnou	PHYTOPLANKTO	ON ANALYSI.	S	Р	age 1 of 2
	REPORT Report no:	285314	Depth :	N/A	
VVAITN	Supercedes Report No:	285253	Chlorophyll a:	NA	
			Microcystin equivalents:	NA	
			Date analysed:	25/05/2023	
Lims No: L23038828	Date Sampled:	6/05/2023	Analyst:		
Client ID: 232990 Site:	Address:				
Client: Department of I	Planning and Environment				
<i>Method:</i> MA71CENT	Issued By : Commercial Client I Issued On : 29/05/20	Representative 023	Disclaimer: Sample received.	es analysed as	
ТАХА					
	Cel m	ls/ L	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green</u>	<u></u>				
Coccoid Blue Green Picopla	unkton 2381298	Filte	r clogging?	4,524.46	1.075
Merismopedia	5899			5.89	0.049
Myxobaktron	737			12.97	0.003
Planktolyngbya	18436	Filte	r clogging	184.36	1.474
Pseudanabaena	486			3.88	0.004
Romeria	1475			23.60	0.009
Synechococcus cf	1475			18.14	0.009
Subtotal	2409806			4,773.30	2.623
	Cells/ mL			ASU/ I mL	3iovolume mm3/L
Total Blue Green	2410000		4	773.00	2.620
* Potentially Toxic Blue Gr	reen O			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.

Sydney Water Approved Signatory:





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Gud		PHYTOPLANKTO	N ANALYSI	S		J	Page 1 of 1
Syu M	ney ATSD	REPORT Report no:	285314	Depth :	N/A		
	4/20	Supercedes Report No:	285253	Chlorophyll a:	NA		
				Microcystin equivalents	: NA		
				Date analysed:	25/05/20	123	
Lims No:	L23038829	Date Sampled:	6/05/2023	Analyst:			
Client ID <i>Site:</i>	: 232992	Address:					
Client:	Department of Plann	ning and Environment					
Method:	MA71CENT	Issued By : Commercial Client F Issued On : 29/05/20	Representative 023	Disclaimer: Sam received.	ples analysed	t as	
TAX	Α						
		Cell mI	ls/	Significance		ASU/ mL	Biovolum mm3/L
<u>Cyanopl</u>	<u>hyta (Blue green)</u>						
Coccoid E	Slue Green Picoplanktor	n 1039550	Filte	er clogging?		1,975.14	0.469
Subtota	l	1039550				1,975.14	0.469
		Cells/ mL			ASU/ mL		Biovolume mm3/L
Total B	lue Green	1040000			1975.00		0.469
* Poten	tially 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 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

# Phycology

# Sydney Water Approved Signatory:

, Supervisor



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