

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862





ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA			
LABORATORY NO./BATCH NO. :	6873989 21-07778			
LOCALITY:	EM2101680-007			
SITE:	Bonneys			
SAMPLE:	Surface			
DATE SAMPLED :	3/02/2021			
DATE ANALYSED :	8/02/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse community of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels may pose a health risk.

Sedgewick-Rafter Vol.(ml) 1 Concentration Magnification Fields	.0255 1 : 1 Toxigenic (T) or Potentiall toxic (P)	y	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Amphora		1	0	49	500	0.02438
Centrales		1	0	49	200	0.00975
Centrales - (5-10um)		1	0	49	80	0.00390
Chaetoceros		1	0	49	200	0.00975
Entomoneis		0	3	6	1000	0.00585
Gyrosigma		2	0	98	1400	0.13652
Naviculales		13	0	634	1400	0.88737
Nitzschia		3	0	146	400	0.05851
Pennales		7	0	341	300	0.10239
Pennales (small <20um)		1	0	49	251	0.01224
Pleurosigma		0	11	21	2000	0.04291
CHLOROPHYCEAE						
Ankistrodesmoideae		67	0	3267	132	0.43120
Ankyra		1	0	49	40	0.00195
Chlorococcoids (<10um)		770	0	37543	60	2.25256
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01560
CYANOPHYCEAE						
Planktolyngbya		36	0	1755	3.8	0.00667
Synechococcales small (iauv <20)		13120	0	639688	5.25	3.35836
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09751
OTHER PHYTOPLANKTON						
		6	0	293	80	0.02340

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

DATE: **09/02/2021**



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Sedgewick-Rafter Vol.(ml)	1.0255	Toxigenic (T) or			T-4-1 O-11	Individual	T-4-1
Concentration	1:1	Potentially			Total Cell	Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/lile)	(um3)	(IIIIII3/L)

TOTAL BGA	641443	3.36503
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	684184	7.48083

⁺ The comments are discretionary and are for the purpose of helping to understand WQ implications. The comments are not accredited by NATA.

The biovolume values reported are those derived from documented information, including scientific literature. These are average values and not those measured on individual samples.

A Certificate of analysis will follow, linked by the above batch number. Independent algal reports are forwarded to clients expeditiously to facilitate operational decision making.

ANALYST: Adam Deliyiannis **Biologist**

REVIEWED: Kirsten Mudie (signatory)

Biologist

DATE: 09/02/2021

METHOD NO.: MB010/MW024VCA

^{*} P's and T's denote those cyanobacteria/blue-green algae (BGA) associated with toxin production in Australian waters. Overseas studies have shown other cyanobacteria to produce toxins. All contain lipopolysaccharides (LPS) in their cell wall and many have been found to produce β-N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.