

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.:	7056274 21-31436					
LOCALITY:	EM2111820-012					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	22/06/2021					
DATE ANALYSED :	24/06/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse algal community was observed with excessive levels of BGA present. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0407 1 : 1	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE							
Anaulus			3	0	144	500	0.07207
Centrales			6	0	288	200	0.05765
Naviculales			2	0	96	1400	0.13452
Nitzschia			13	0	625	400	0.24983
Pennales			2	0	96	300	0.02883
Pleurosigma			0	1	2	2000	0.00384
CHLOROPHYCEAE		<u> </u>					
Botryococcus			0	220	423	98	0.04143
Chlamydomonads			1	0	48	250	0.01201
Chlorococcoids (<10um)			70	0	3363	60	0.20179
Colonial green (cells)			0	80	154	100	0.01537
Crucigenia			304	0	14606	30	0.43817
Didymocystis			16	0	769	41	0.03152
Eremosphaera			0	4	8	700	0.00538
Filamentous Green			49	0	2354	386	0.90872
Lagerheimia			5	0	240	500	0.12011
Monoraphidium			40	0	1922	900	1.72961
Oocystis			44	0	2114	300	0.63419
Pediastrum			14	0	673	60	0.04036
Planctonema			415	0	19939	800	15.95080
Scenedesmus			20	0	961	250	0.24022
Tetraedron			2	0	96	150	0.01441
Tetrastrum			64	0	3075	40	0.12299
CRYPTOPHYCEAE		<u>, </u>					
Cryptomonads			4	0	192	320	0.06150

ANALYST: Kirsten Mudie (signatory) **Biologist**

REVIEWED: Lauren Minett (signatory)

Biologist

DATE: 24/06/2021

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml) 1.0407 Concentration 1 : - Magnification Fields	/T\ ~ "	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	Р	120	0	5765	67	0.38628
Cuspidothrix cf. issatschenkoi		6	0	288	57	0.01643
Limnolyngbya (Planktolyngbya circumcreta)		8060	0	387239	4.9	1.89747
Limnothrix/Geitlerinema/Anagnostidinema	Р	0	496	953	17.5	0.01668
Planktolyngbya		4900	0	235418	3.8	0.89459
Pseudanabaena		44	0	2114	12.5	0.02642
Romeria		6	0	288	31	0.00894
Spirulina		0	25	48	5.73	0.00028
Synechococcales small (iauv <20)		10680	0	513116	5.25	2.69386
DINOPHYCEAE						
Gymnodiniales		1	0	48	2000	0.09609
EUGLENOPHYCEAE						
Euglena		1	0	48	7000	0.33631
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	96	80	0.00769
TOTAL BGA		1145229				5.94095
TOTAL TOXIGENIC BGA		0				0.00000
TOTAL POTENTIALLY TOXIC BGA		6718				0.40296
TOTAL ALGAE		1197609				27.49636

⁺ 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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Lauren Minett (signatory) DATE: 24/06/2021

Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

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.

^{*} 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.