

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.:	7484453 22-53362			
LOCALITY:	EM2212385-006			
SITE:	McGrath Flat North			
SAMPLE:	Surface			
DATE SAMPLED :	29/06/2022			
DATE ANALYSED :	5/07/2022			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + Current high levels of algae are sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.027 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							
Centrales - (5-10um)			6	0	292	80	0.02337
Chaetoceros			80	0	3895	200	0.77897
Naviculales			2	0	97	1400	0.13632
Nitzschia			11	0	536	400	0.21422
Pennales			5	0	243	300	0.07303
Pennales (small <20um)			2	0	97	251	0.02444
CHLOROPHYCEAE							
Ankistrodesmoideae			1300	0	63291	132	8.35443
Chlamydomonads			6	0	292	250	0.07303
Chlorococcoids (<10um)			1700	0	82765	60	4.96592
Monoraphidium (small)			27	0	1315	16	0.02103
CHRYSOPHYCEAE							
Other Chrysophyceae			3	0	146	350	0.05112
CRYPTOPHYCEAE							
Cryptomonads			1	0	49	320	0.01558
CYANOPHYCEAE							
Pseudanabaena			4	0	195	12.5	0.00243
Synechococcales small (iauv <20)			10180	0	495618	5.25	2.60200
DINOPHYCEAE							
Dinoflagellates			0	1	2	20000	0.03895
Gymnodiniales			1	0	49	2000	0.09737
Gymnodiniales (small)			1	0	49	500	0.02434
OTHER PHYTOPLANKTON							
Other small flagellates			110	0	5355	80	0.42843
Prasinophytes			18	0	876	100	0.08763

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

REVIEWED: Thao Nguyen (signatory)

Biologist

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA



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Fields		*	20	500	(Cells/IIIL)	(um3)	(111113/L)

TOTAL BGA	495813	2.60443
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	655162	18.01261

⁺ 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: Kirsten Mudie (signatory) REVIEWED: Thao Nguyen (signatory) DATE: 07/07/2022

Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

^{*} 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.