

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. :	6933881 21-15798					
LOCALITY:	EM2104707_018					
SITE:	McGrath Flat North					
SAMPLE:	Surface					
DATE SAMPLED :	17/03/2021					
DATE ANALYSED :	23/03/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + High levels of low biovolume BGA and greens were present amongst a diverse algal community. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0145 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						
Amphora		3	0	148	500	0.07393
Naviculales		1	0	49	1400	0.06900
Nitzschia		3	0	148	400	0.05914
Pennales		1	0	49	300	0.01479
Pennales (small <20um)		7	0	345	251	0.08659
CHLOROPHYCEAE			1			
Ankistrodesmoideae		120	0	5914	132	0.78068
Chlorococcoids (<10um)		660	0	32528	60	1.95170
Filamentous Green		0	24	47	386	0.01826
Oocystis		2	0	99	300	0.02957
Selenastrum		1	0	49	250	0.01232
CYANOPHYCEAE			1			
Planktolyngbya		43	0	2119	3.8	0.00805
Synechococcales small (iauv <20)		2680	0	132085	5.25	0.69345
DINOPHYCEAE	1					
Dinoflagellates		8	0	394	20000	7.88566
Gymnodiniales (small)		5	0	246	500	0.12321
OTHER PHYTOPLANKTON	,					
Other small flagellates		30	0	1479	80	0.11828
TOTAL BGA		134204				0.70150
TOTAL TOXIGENIC BGA		0				0.00000
TOTAL POTENTIALLY TOXIC BGA		0				0.00000
TOTAL ALGAE				175699		11.92464

ANALYST: Kirsten Mudie (signatory)

Biologist

METHOD NO.: MB010/MW024VCA

REVIEWED: Adam Deliyiannis
Biologist

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DATE: 23/03/2021



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Fields			20	500		(/	

⁺ 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: Adam Deliyiannis DATE: 23/03/2021
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.