

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.:	6750297 20-50047			
LOCALITY:	EM2018692-006			
SITE:	1.8km West of Salt Creek			
SAMPLE:	Surface			
DATE SAMPLED :	21/10/2020			
DATE ANALYSED :	26/10/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse community of algal taxa was observed. Current levels of algae are sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0311 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			0	1	2	500	0.00097
Nitzschia			11	0	533	400	0.21336
Pennales			1	0	48	300	0.01455
Pennales (small <20um)			1	0	48	251	0.01217
CHLOROPHYCEAE							
Ankistrodesmoideae			180	0	8729	132	1.15217
Chlorococcoids (<10um)			3120	0	151295	60	9.07768
CRYPTOPHYCEAE							
Cryptomonads			6	0	291	320	0.09310
CYANOPHYCEAE							
Planktolyngbya			35	0	1697	3.8	0.00645
Synechococcales small (iauv <20)			13760	0	667249	5.25	3.50305
DINOPHYCEAE							
Dinoflagellates			0	5	10	20000	0.19397
Gymnodiniales			1	0	48	2000	0.09698
Gymnodiniales (small)			18	0	873	500	0.43643
Peridiniales			5	0	242	5000	1.21230
OTHER PHYTOPLANKTON							
Other small flagellates			365	0	17700	80	1.41596
Prasinophytes			1	0	48	100	0.00485
TOTAL BGA TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA				668946 0		3.50950 0.00000 0.00000	
10.7.2.10.12.1		ALGAE			848813		17.43400

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024CV

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DATE: **27/10/2020** 



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields		*	20	500	(00110711112)	(uiiis)	(

<sup>+</sup> 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

METHOD NO.: MB010/MW024CV Page 2 of 2

<sup>\*</sup> 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.