

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. :	6750302 20-50047			
LOCALITY:	EM2018692_011			
SITE:	Long Point			
SAMPLE:	Surface			
DATE SAMPLED :	21/10/2020			
DATE ANALYSED :	26/10/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed with current algal levels unlikely to impair water quality. The presence of toxigenic BGA Nodularia is noteworthy.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0208 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							
Chaetoceros			8	0	392	200	0.07837
Cocconeis			0	1	2	450	0.00088
Licmophora			0	3	6	850	0.00500
Nitzschia			0	1	2	400	0.00078
Pennales (small <20um)			1	0	49	251	0.01229
CHLOROPHYCEAE							
Chlamydomonads			4	0	196	250	0.04898
Chlorococcoids (<10um)			32	0	1567	60	0.09404
Crucigenia			8	0	392	30	0.01176
Oocystis			4	0	196	300	0.05878
Planctonema			0	18	35	800	0.02821
Selenastrum			1	0	49	250	0.01225
CRYPTOPHYCEAE							
Cryptomonads			52	0	2547	320	0.81505
CYANOPHYCEAE							
Nodularia spumigena		Т	0	20	39	227	0.00889
Oscillatoriales (iauv 1-100)		Р	0	72	141	60.8	0.00858
Oscillatoriales (iauv 101-200)		Р	0	125	245	142.8	0.03497
Planktolyngbya			0	12	24	3.8	0.00009
Synechococcales small (iauv <20)			528	0	25862	5.25	0.13578
DINOPHYCEAE							
Protoperidinium			0	1	2	31000	0.06074
OTHER PHYTOPLANKTON		1					
Other small flagellates			32	0	1567	80	0.12539

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024CV



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(Cells/IIIL)	(um3)	(1111113/L)

TOTAL BGA	26311	0.18831
TOTAL TOXIGENIC BGA	39	0.00889
TOTAL POTENTIALLY TOXIC BGA	386	0.04355
TOTAL ALGAE	33313	1.54083

⁺ 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: 27/10/2020 Biologist Biologist

METHOD NO.: MB010/MW024CV 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.