

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.:	7086217 21-35420			
LOCALITY:	EM2113768-010			
SITE:	Tilley U/S Morella			
SAMPLE:	Surface			
DATE SAMPLED :	13/07/2021			
DATE ANALYSED :	19/07/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed with current algal levels unlikely to influence water quality.

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							
Anaulus			0	1	2	500	0.00099
Centrales			8	0	394	200	0.07886
Chaetoceros			3	0	148	200	0.02957
Cocconeis			0	1	2	450	0.00089
Naviculales			1	0	49	1400	0.06900
Pennales			1	0	49	300	0.01479
Pennales (small <20um)			1	0	49	251	0.01237
CHLOROPHYCEAE							
Chlorococcoids (<10um)			5	0	246	60	0.01479
Dictyosphaerium			4	0	197	20	0.00394
Monoraphidium			2	0	99	900	0.08871
Oocystis			4	0	197	300	0.05914
CRYPTOPHYCEAE							
Cryptomonads			1	0	49	320	0.01577
CYANOPHYCEAE							
Anabaena			0	14	28	76	0.00210
Pseudanabaena			0	12	24	12.5	0.00030
Synechococcales small (iauv <20)			260	0	12814	5.25	0.06727
DINOPHYCEAE							
Peridiniales			1	0	49	5000	0.24643
EUGLENOPHYCEAE	EUGLENOPHYCEAE						
Trachelomonas			0	1	2	3000	0.00591
OTHER PHYTOPLANKTON							
Other small flagellates			2	0	99	80	0.00789
Prasinophytes			1	0	49	100	0.00493

ANALYST: Kirsten Mudie (signatory) Biologist

 ${\sf REVIEWED:} \textbf{\textit{Adam Deliyiannis}}$

Biologist

DATE: 19/07/2021

METHOD NO.: MB010/MW024VCA



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Fields		**	20	500		,	

TOTAL BGA	12866	0.06967
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	14546	0.72364

⁺ 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: 19/07/2021
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.