

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.:	7007870 21-25384				
LOCALITY:	EM2108900-001				
SITE:	Stony Well				
SAMPLE:	Surface				
DATE SAMPLED :	12/05/2021				
DATE ANALYSED :	18/05/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse community of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0242 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			2	0	98	500	0.04882
Centrales			2	0	98	200	0.01953
Naviculales			1	0	49	1400	0.06835
Nitzschia			132	0	6444	400	2.57762
Pennales			4	0	195	300	0.05858
Pennales (small <20um)			1	0	49	251	0.01225
Pleurosigma			0	1	2	2000	0.00391
CHLOROPHYCEAE				1			
Ankistrodesmoideae			97	0	4735	132	0.62507
Chlorococcoids (<10um)			970	0	47354	60	2.84124
CYANOPHYCEAE							
Planktolyngbya			8	0	391	3.8	0.00148
Synechococcales small (iauv <20)			13280	0	648311	5.25	3.40363
DINOPHYCEAE							
Dinoflagellates			1	0	49	20000	0.97637
Gymnodiniales (small)			9	0	439	500	0.21968
Peridiniales			1	0	49	5000	0.24409
OTHER PHYTOPLANKTON							
Other small flagellates			13	0	635	80	0.05077
Prasinophytes			2	0	98	100	0.00976
_	то	TAL BGA	648702				3.40512
TC	OTAL TOXIGE	NIC BGA			0		0.00000
TOTAL POTENTIALLY TOXIC BGA				0		0.00000	
TOTAL ALGAE		708996				11.16117	

ANALYST: Adam Deliyiannis **Biologist**

REVIEWED: Louise Ungemach (signatory)

Biologist

DATE: 19/05/2021

METHOD NO.: MB010/MW024VCA



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Concentration	1:1	Potentially			Total Cell	Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(OUIIS/IIIL)	(um3)	()

⁺ 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: Louise Ungemach (signatory)
Biologist

DATE: 19/05/2021

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.