

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862





ALGAL REPORT

CLIENT:	ALS
LABORATORY NO./BATCH NO.:	6695259 20-42534
LOCALITY:	EM2015594_011
SITE:	Stony Well
SAMPLE:	Surface
DATE SAMPLED :	9/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse algal community was observed with high levels of small BGA and greens present. Water quality may be impaired.

, ,	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						
Centrales		1	0	48	200	0.00970
Nitzschia		2	0	97	400	0.03879
Pennales		0	2	4	300	0.00116
Pennales (small <20um)		2	0	97	251	0.02434
Pleurosigma		0	1	2	2000	0.00388
CHLOROPHYCEAE	·					
Ankistrodesmoideae		340	0	16487	132	2.17632
Chlamydomonads		1	0	48	250	0.01212
Chlorococcoids (<10um)		4400	0	213364	60	12.80186
CHRYSOPHYCEAE	<u> </u>					
Other Chrysophyceae		30	0	1455	350	0.50916
СКҮРТОРНҮСЕАЕ	<u> </u>					
Cryptomonads		9	0	436	320	0.13966
CYANOPHYCEAE	<u> </u>					
Limnothrix/Geitlerinema/Anagnostidinema	Р	11	0	533	17.5	0.00933
Planktolyngbya		46	0	2231	3.8	0.00848
Synechococcales small (iauv <20)		8400	0	407332	5.25	2.13849
DINOPHYCEAE	<u> </u>			<u> </u>		
Dinoflagellates		1	0	48	20000	0.96984
Gymnodiniales		3	0	145	2000	0.29095
Gymnodiniales (small)		4	0	194	500	0.09698
Peridiniales		1	0	48	5000	0.24246
OTHER PHYTOPLANKTON						
Other small flagellates		180	0	8729	80	0.69828

ANALYST: Kirsten Mudie (signatory) ${\tt REVIEWED:} \textbf{\textit{Adam Deliyiannis}}$ **Biologist**

METHOD NO.: MB010/MW024CV

Biologist

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DATE: **14/09/2020**



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Sedgewick-Rafter Vol.(ml) Concentration	1.0311 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/lile)	(um3)	(11111372)

96 2.15630	410096	TOTAL BGA
0.00000	0	TOTAL TOXIGENIC BGA
3 0.00933	533	TOTAL POTENTIALLY TOXIC BGA
8 20.17182	651298	TOTAL ALGAE

⁺ 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: 14/09/2020
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.