

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





ALGAL REPORT

CLIENT:	ALS
LABORATORY NO./BATCH NO. :	6681707 20-40763
LOCALITY:	EM2014780-002
SITE:	North Jacks Point
SAMPLE:	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	31/08/2020
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current excessive levels of small BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0168 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			1	0	49	500	0.02459
Nitzschia			6	0	295	400	0.11802
Pennales			1	0	49	300	0.01475
Pennales (small <20um)			1	0	49	251	0.01234
CHLOROPHYCEAE							
Ankistrodesmoideae			148	0	7278	132	0.96066
Chlorococcoids (<10um)			5760	0	283242	60	16.99449
CHRYSOPHYCEAE							
Other Chrysophyceae			1	0	49	350	0.01721
CRYPTOPHYCEAE							
Cryptomonads			20	0	983	320	0.31471
CYANOPHYCEAE							
Planktolyngbya			50	0	2459	3.8	0.00934
Synechococcales small (iauv <20)			13120	0	645161	5.25	3.38710
DINOPHYCEAE							
Dinoflagellates			0	4	8	20000	0.15736
Gymnodiniales			0	2	4	2000	0.00787
Gymnodiniales (small)			14	0	688	500	0.34422
Peridiniales			2	0	98	5000	0.49174
OTHER PHYTOPLANKTON							
Other small flagellates			9	0	443	80	0.03541
Prasinophytes			2	0	98	100	0.00983

ANALYST: Adam Deliyiannis
Biologist

logist

REVIEWED: Kirsten Mudie (signatory) DATE: 31/08/2020
Biologist

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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(Cells/IIIL)	(um3)	(111113/L)

20 3.39644	647620	TOTAL BGA
0.00000	0	TOTAL TOXIGENIC BGA
0.00000	0	TOTAL POTENTIALLY TOXIC BGA
53 22.89964	940953	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: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
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.