

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





ALGAL REPORT

CLIENT:	ALS
LABORATORY NO./BATCH NO. :	6722404 20-45935
LOCALITY:	EM2017172-002
SITE:	North Jacks Point
SAMPLE:	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	7/10/2020
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and low bioviolume BGA most numerous. Current combined levels are likely to impair water quality.

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							
Amphora			1	0	49	500	0.02449
Naviculales			0	1	2	1400	0.00274
Nitzschia			7	0	343	400	0.13715
Pennales			1	0	49	300	0.01469
Pennales (small <20um)			2	0	98	251	0.02459
Pleurosigma			1	0	49	2000	0.09796
CHLOROPHYCEAE							
Ankistrodesmoideae			216	0	10580	132	1.39655
Chlamydomonads			1	0	49	250	0.01225
Chlorococcoids (<10um)			2380	0	116575	60	6.99451
CHRYSOPHYCEAE							
Other Chrysophyceae			6	0	294	350	0.10286
CRYPTOPHYCEAE							
Cryptomonads			4	0	196	320	0.06270
CYANOPHYCEAE							
Oscillatoriales (iauv 1-100)		Р	0	38	74	60.8	0.00453
Planktolyngbya			31	0	1518	3.8	0.00577
Pseudanabaena			10	0	490	12.5	0.00612
Synechococcales small (iauv <20)			17280	0	846395	5.25	4.44357
DINOPHYCEAE		1					
Dinoflagellates			0	1	2	20000	0.03918
Gymnodiniales			15	0	735	2000	1.46944
Peridiniales			4	0	196	5000	0.97962
OTHER PHYTOPLANKTON							
Other small flagellates			132	0	6466	80	0.51724

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Karen Simonsen (signatory)

Biologist

DATE: 07/10/2020

METHOD NO.: MB010/MW024CV



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Prasinophytes			5	0	245	100	0.02449

4.45999	848477	TOTAL BGA
0.00000	0	TOTAL TOXIGENIC BGA
74 0.00453	74	TOTAL POTENTIALLY TOXIC BGA
05 16.36046	984405	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 REVIEWED: Karen Simonsen (signatory) DATE: 07/10/2020
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.