

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





## **ALGAL REPORT**

CLIENT:	ALS			
LABORATORY NO./BATCH NO. :	6722417 20-45935			
LOCALITY:	EM2017172-015			
SITE:	Noonameena			
SAMPLE:	Surface			
DATE SAMPLED :	30/09/2020			
DATE ANALYSED :	8/10/2020			
SAMPLED BY:	Sample analysed as received			

**COMMENTS: +** A diverse algal community was observed, but overall algal levels are unlikely to impact water quality.

, , ,	0208 Toxigenic 1 : 1 Potentially toxic (P)		- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Amphora		1	0	49	500	0.02449
Chaetoceros		3	0	147	200	0.02939
Licmophora		3	0	147	850	0.12490
Naviculales		0	1	2	1400	0.00274
Nitzschia		0	5	10	400	0.00392
Pennales		0	8	16	300	0.00470
Pennales (small <20um)		8	0	392	251	0.09835
CHLOROPHYCEAE						
Chlamydomonads		2	0	98	250	0.02449
Chlorococcoids		92	0	4506	500	2.25313
Filamentous Green		0	12	24	386	0.00908
Oocystis		4	0	196	300	0.05878
Selenastrum		11	0	539	250	0.13470
CRYPTOPHYCEAE						
Cryptomonads		9	0	441	320	0.14107
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	Р	0	50	98	60.8	0.00596
Planktolyngbya		0	7	14	3.8	0.00005
Synechococcales small (iauv <20)		190	0	9306	5.25	0.04886
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97962
Prorocentrum cf lima		0	2	4	3000	0.01176
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00392

ANALYST: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 08/10/2020 Biologist Biologist

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COMMENTS: + A diverse algal community was observed, but overall algal levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification	1.0208 1 : 1	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume	Total Biovolume (mm3/L)
Fields		*	20	500	(Cells/IIIL)	(um3)	(111113/L)

TOTAL BGA	9418	0.05487
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	98	0.00596
TOTAL ALGAE	16087	3.95991

<sup>+</sup> 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: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 08/10/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV Page 2 of 2

<sup>\*</sup> 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.