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. :	6906827 21-12031
LOCALITY :	EM2103113_016
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	25/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with diatoms most numerous. Current diatom levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0722 **Concentration** 1 : 1 **Magnification** **Fields**	**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	93	500	0.04663
Centrales		1	0	47	200	0.00933
Centrales - (5-10um)		20	0	933	80	0.07461
Chaetoceros		122	0	5689	200	1.13785
Entomoneis		3	0	140	1000	0.13990
Nitzschia		5	0	233	400	0.09327
Pennales		3	0	140	300	0.04197
Pennales (small <20um)		26	0	1212	251	0.30433
Pleurosigma		1	0	47	2000	0.09327
Rhizosolenia		8	0	373	500	0.18653
CHLOROPHYCEAE						
Ankistrodesmus		1	0	47	132	0.00616
Chlorococcoids (<10um)		40	0	1865	60	0.11192
Oocystis		2	0	93	300	0.02798
Selenastrum		1	0	47	250	0.01166
CHRYSOPHYCEAE						
Other Chrysophyceae		4	0	187	350	0.06529
CRYPTOPHYCEAE						
Cryptomonads		3	0	140	320	0.04477
CYANOPHYCEAE						
Chroococcus (large cells)		0	6	11	335	0.00375
Limnothrix/Geitlerinema/Anagnostidinema	P	0	65	121	17.5	0.00212
Microcystis	P	0	2	4	74	0.00028
Planktolyngbya		20	0	933	3.8	0.00354
DINOPHYCEAE						

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **02/03/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

ALS Water
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Gymnodiniales (small)		4	0	187	500	0.09327
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	187	80	0.01492

TOTAL BGA	**1069**	**0.00969**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**125**	**0.00240**
TOTAL ALGAE	**12729**	**2.51333**

+ 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.

**** 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.***

ANALYST: *Kirsten Mudie (signatory)* **Biologist** REVIEWED: *Adam Deliyiannis* **Biologist** DATE: **02/03/2021**

METHOD NO.: MB010/MW024VCA