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. :	7007887 21-25384
LOCALITY :	EM2108900_018
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	20/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with small greens and BGA numerous. Water quality may be mildly impaired.

Sedgewick-Rafter Vol.(ml) 1.0046 **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						
Centrales		6	0	299	200	0.05973
Cocconeis		0	1	2	450	0.00090
Naviculales		2	0	100	1400	0.13936
Nitzschia		45	0	2240	400	0.89588
Pennales		6	0	299	300	0.08959
Pennales (small <20um)		2	0	100	251	0.02499
Pleurosigma		1	0	50	2000	0.09954
CHLOROPHYCEAE						
Chlorococcoids (<10um)		570	0	28370	60	1.70217
Selenastrum		1	0	50	250	0.01244
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	80	159	17.5	0.00279
Pseudanabaena		6	0	299	12.5	0.00373
Synechococcales small (iauv <20)		1790	0	89090	5.25	0.46772
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	50	80	0.00398

TOTAL BGA	**89548**	**0.47424**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**159**	**0.00279**
TOTAL ALGAE	**121108**	**3.50281**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **20/05/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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)* REVIEWED: *Adam Deliyiannis* DATE: **20/05/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA