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. :	7116663 21-39298
LOCALITY :	EM2115770-019
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	9/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. High levels of the BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0407 **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		1	0	48	500	0.02402
Naviculales		1	0	48	1400	0.06726
Nitzschia		2	0	96	400	0.03844
Pennales		4	0	192	300	0.05765
CHLOROPHYCEAE						
Ankistrodesmoideae		19	0	913	132	0.12050
Chlorococcoids (<10um)		17	0	817	60	0.04901
CHRYSOPHYCEAE						
Other Chrysophyceae		4	0	192	350	0.06726
CYANOPHYCEAE						
Synechococcales small (iauv <20)		19840	0	953205	5.25	5.00432
DINOPHYCEAE						
Gymnodiniales		5	0	240	2000	0.48045
Gymnodiniales (small)		8	0	384	500	0.19218
Peridiniales		1	0	48	5000	0.24022
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	240	80	0.01922
Prasinophytes		2	0	96	100	0.00961
Raphidophytes		7	0	336	7000	2.35418

TOTAL BGA	**953205**	**5.00432**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**956855**	**8.72432**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Karen Simonsen (signatory)* **Biologist**

DATE: **13/08/2021**

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: *Adam Deliyiannis* **Biologist**

REVIEWED: *Karen Simonsen (signatory)* **Biologist**

DATE: **13/08/2021**

METHOD NO.: MB010/MW024VCA