ALS Water
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. :	7171304 21-46438
LOCALITY :	EM2119079-018
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Excessive levels of low biovolume BGA are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 **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	97	500	0.04853
Centrales		1	0	49	200	0.00971
Naviculales		0	2	4	1400	0.00544
Pennales		2	0	97	300	0.02912
Pennales (small <20um)		1	0	49	251	0.01218
CHLOROPHYCEAE						
Ankistrodesmoideae		31	0	1504	132	0.19858
Chlorococcoids (<10um)		65	0	3154	60	0.18927
CYANOPHYCEAE						
Synechococcales small (iauv <20)		23120	0	1122003	5.25	5.89052
DINOPHYCEAE						
Gymnodiniales		2	0	97	2000	0.19412
Gymnodiniales (small)		1	0	49	500	0.02426
OTHER PHYTOPLANKTON						
Other small flagellates		15	0	728	80	0.05824
Prasinophytes		1	0	49	100	0.00485
Raphidophytes		1	0	49	7000	0.33971

TOTAL BGA	**1122003**	**5.89052**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1127929**	**7.00451**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **28/09/2021**

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: *Louise Ungemach (signatory)* **Biologist**

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