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. :	7171299 21-46438
LOCALITY :	EM2119079-013
SITE :	Seagull Island
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to influence 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		3	0	146	500	0.07279
Naviculales		2	0	97	1400	0.13588
Nitzschia		1	0	49	400	0.01941
Pennales		1	0	49	300	0.01456
Pennales (small <20um)		1	0	49	251	0.01218
CHLOROPHYCEAE						
Ankistrodesmoideae		46	0	2232	132	0.29467
Chlorococcoids (<10um)		22	0	1068	60	0.06406
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01553
CYANOPHYCEAE						
Synechococcales small (iauv <20)		22320	0	1083180	5.25	5.68669
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03882
Gymnodiniales		3	0	146	2000	0.29118
Gymnodiniales (small)		1	0	49	500	0.02426
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	291	80	0.02329
Prasinophytes		1	0	49	100	0.00485
Raphidophytes		4	0	194	7000	1.35883

TOTAL BGA	**1083180**	**5.68669**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1087650**	**8.05702**

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **29/09/2021**

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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