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. :	7007878 21-25384
LOCALITY :	EM2108900-009
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	19/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse community of algal taxa was observed, with low biovolume BGA Synechococcales most numerous. Current levels are unlikely to impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0327 **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	145	500	0.07263
Centrales		1	0	48	200	0.00968
Nitzschia		138	0	6682	400	2.67261
Pennales		3	0	145	300	0.04358
Pennales (small <20um)		2	0	97	251	0.02431
CHLOROPHYCEAE						
Ankistrodesmoideae		54	0	2615	132	0.34511
Carteria		1	0	48	300	0.01453
Chlorococcoids (<10um)		510	0	24693	60	1.48155
CRYPTOPHYCEAE						
Cryptomonads		2	0	97	320	0.03099
CYANOPHYCEAE						
Synechococcales small (iauv <20)		4960	0	240147	5.25	1.26077
DINOPHYCEAE						
Dinoflagellates		2	0	97	20000	1.93667
Gymnodiniales		3	0	145	2000	0.29050
Gymnodiniales (small)		19	0	920	500	0.45996
Peridiniales		1	0	48	5000	0.24208
OTHER PHYTOPLANKTON						
Other small flagellates		43	0	2082	80	0.16655
Prasinophytes		2	0	97	100	0.00968

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **19/05/2021**

METHOD NO.: MB010/MW024VCA

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. :	7007878 21-25384
LOCALITY :	EM2108900-009
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	19/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse community of algal taxa was observed, with low biovolume BGA Synechococcales most numerous. Current levels are unlikely to impact on water quality.

		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0327						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**240147**		**1.26077**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**278106**		**9.06120**

+ 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**

DATE: **19/05/2021**

METHOD NO.: MB010/MW024VCA