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. :	6906820 21-12031
LOCALITY :	EM2103113-009
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	24/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and numerous community of algal taxa was observed. Current levels may mildly impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0199 **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	49	500	0.02451
Centrales		2	0	98	200	0.01961
Nitzschia		110	0	5393	400	2.15707
Pennales		1	0	49	300	0.01471
Pennales (small <20um)		2	0	98	251	0.02461
CHLOROPHYCEAE						
Ankistrodesmoideae		550	0	26963	132	3.55917
Chlamydomonads		4	0	196	250	0.04902
Chlorococcoids (<10um)		620	0	30395	60	1.82371
Chlorolobion		1	0	49	70	0.00343
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	98	350	0.03432
CYANOPHYCEAE						
Synechococcales small (iauv <20)		5380	0	263751	5.25	1.38469
DINOPHYCEAE						
Dinoflagellates		6	0	294	20000	5.88293
Gymnodiniales		1	0	49	2000	0.09805
Gymnodiniales (small)		8	0	392	500	0.19610
OTHER PHYTOPLANKTON						
Other small flagellates		16	0	784	80	0.06275

TOTAL BGA	**263751**	**1.38469**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**328658**	**15.33469**

ANALYST: *Adam Deliyiannis* **Biologist**
REVIEWED: *Kirsten Mudie (signatory)* **Biologist**
DATE: **02/03/2021**

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: *Kirsten Mudie (signatory)* **Biologist**

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