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. :	7281142 21-59669
LOCALITY :	EM2125413-001
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	21/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml) 1.0105 **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						
Nitzschia		3	0	148	400	0.05938
Pennales		2	0	99	300	0.02969
Pennales (small <20um)		300	0	14844	251	3.72588
CHLOROPHYCEAE						
Ankistrodesmoideae		2940	0	145473	132	19.20238
Chlorococcoids (<10um)		4760	0	235527	60	14.13162
CRYPTOPHYCEAE						
Cryptomonads		9	0	445	320	0.14250
CYANOPHYCEAE						
Synechococcales small (iauv <20)		28280	0	1399307	5.25	7.34636
DINOPHYCEAE						
Gymnodiniales		9	0	445	2000	0.89065
Gymnodiniales (small)		31	0	1534	500	0.76695

TOTAL BGA	**1399307**	**7.34636**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1797822**	**46.29540**

+ 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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **22/12/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA