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. :	7791231 22-70934
LOCALITY :	EM2218950-010
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	5/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may 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						
Pennales		1	0	49	300	0.01456
Pennales (small <20um)		1	0	49	251	0.01218
CHLOROPHYCEAE						
Chlorococcoids (<10um)		620	0	30088	60	1.80530
Monoraphidium (small)		36	0	1747	16	0.02795
CRYPTOPHYCEAE						
Cryptomonads		2	0	97	320	0.03106
CYANOPHYCEAE						
Planktolyngbya		13	0	631	3.8	0.00240
Synechococcales small (iauv <20)		9680	0	469766	5.25	2.46627
DINOPHYCEAE						
Gymnodiniales (small)		1	0	49	500	0.02426
OTHER PHYTOPLANKTON						
Other small flagellates		29	0	1407	80	0.11259
Raphidophytes		1	0	49	7000	0.33971

TOTAL BGA	**470397**	**2.46867**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**503932**	**4.83628**

+ 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 (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **06/10/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA