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. :	187805 22-45580
LOCALITY :	EM2209350-001
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are likely to influence water qualiity.

Sedgewick-Rafter Vol.(ml) 1.0744 **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		70	0	3258	400	1.30305
Pennales		5	0	233	300	0.06981
CHLOROPHYCEAE						
Ankistrodesmoideae		28	0	1303	132	0.17200
Chlorococcoids (<10um)		670	0	31180	60	1.87081
CRYPTOPHYCEAE						
Cryptomonads		24	0	1117	320	0.35741
CYANOPHYCEAE						
Synechococcales small (iauv <20)		8240	0	383470	5.25	2.01322
DINOPHYCEAE						
Gymnodiniales		9	0	419	2000	0.83768
Gymnodiniales (small)		1	0	47	500	0.02327
Peridiniales		4	0	186	5000	0.93075
OTHER PHYTOPLANKTON						
Other small flagellates		9	0	419	80	0.03351
Prasinophytes		1	0	47	100	0.00465

TOTAL BGA	**383470**	**2.01322**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**421679**	**7.61616**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **25/05/2022**
Biologist **Biologist**

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 (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **25/05/2022**

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