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. :	239357 22-48116
LOCALITY :	EM2210355-006
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	2/06/2022
DATE ANALYSED :	14/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are likely to impact 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						
Nitzschia		78	0	3777	400	1.51060
Pennales		3	0	145	300	0.04358
CHLOROPHYCEAE						
Ankistrodesmoideae		216	0	10458	132	1.38046
Chlorococcoids (<10um)		1280	0	61973	60	3.71841
CRYPTOPHYCEAE						
Cryptomonads		3	0	145	320	0.04648
CYANOPHYCEAE						
Synechococcales small (iauv <20)		10960	0	530648	5.25	2.78590
DINOPHYCEAE						
Gymnodiniales		4	0	194	2000	0.38733
Gymnodiniales (small)		2	0	97	500	0.04842
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	97	80	0.00775

TOTAL BGA	**530648**	**2.78590**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**607534**	**9.92892**

+ 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: **14/06/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA