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. :	7548890 22-57206
LOCALITY :	EM2213882-007
SITE :	Sth Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	26/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with high levels of algae sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0099 **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						
Entomoneis		0	1	2	1000	0.00198
Nitzschia		6	0	297	400	0.11882
Pennales		2	0	99	300	0.02971
Pennales (small <20um)		4	0	198	251	0.04971
CHLOROPHYCEAE						
Ankistrodesmoideae		1400	0	69314	132	9.14942
Chlamydomonads		1	0	50	250	0.01238
Chlorococcoids (<10um)		7000	0	346569	60	20.79414
CRYPTOPHYCEAE						
Cryptomonads		2	0	99	320	0.03169
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	14	28	17.5	0.00049
Pseudanabaena		0	6	12	12.5	0.00015
Synechococcales small (iauv <20)		30660	0	1517972	5.25	7.96935
DINOPHYCEAE						
Dinoflagellates		1	0	50	20000	0.99020
Gymnodiniales		19	0	941	2000	1.88137
Gymnodiniales (small)		16	0	792	500	0.39608
OTHER PHYTOPLANKTON						
Other small flagellates		540	0	26735	80	2.13883

TOTAL BGA	**1518012**	**7.96999**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**28**	**0.00049**
TOTAL ALGAE	**1963158**	**43.56430**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **26/07/2022**
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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **26/07/2022**
Biologist **Biologist**

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