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. :	7328740 22-06265
LOCALITY :	EM2201088-011
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	1/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive algal levels may impair 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						
Naviculales		1	0	48	1400	0.06778
Nitzschia		405	0	19609	400	7.84352
Pennales		5	0	242	300	0.07263
Pennales (small <20um)		19	0	920	251	0.23090
CHLOROPHYCEAE						
Ankistrodesmoideae		4560	0	220780	132	29.14302
Chlorococcoids (<10um)		2340	0	113295	60	6.79771
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01549
CYANOPHYCEAE						
Synechococcales small (iauv <20)		15520	0	751428	5.25	3.94500
DINOPHYCEAE						
Dinoflagellates		9	0	436	20000	8.71502
Gymnodiniales		7	0	339	2000	0.67783
Gymnodiniales (small)		19	0	920	500	0.45996
Peridiniales		2	0	97	5000	0.48417
OTHER PHYTOPLANKTON						
Raphidophytes		3	0	145	7000	1.01675

TOTAL BGA	**751428**	**3.94500**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1108307**	**59.46979**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **02/02/2022**
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: *Kirsten Mudie (signatory)* DATE: **02/02/2022**

Biologist **Biologist**

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