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. :	6873994 21-07778
LOCALITY :	EM2101680-012
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	8/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels may pose a health risk.

Sedgewick-Rafter Vol.(ml) 1.0333 **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						
Amphora		1	0	48	500	0.02419
Nitzschia		188	0	9097	400	3.63883
Pennales		5	0	242	300	0.07258
Pennales (small <20um)		11	0	532	251	0.13360
Pleurosigma		0	1	2	2000	0.00387
CHLOROPHYCEAE						
Ankistrodesmoideae		944	0	45679	132	6.02961
Chlorococcoids (<10um)		1010	0	48873	60	2.93235
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	97	350	0.03387
CRYPTOPHYCEAE						
Cryptomonads		0	1	2	320	0.00062
CYANOPHYCEAE						
Synechococcales small (iauv <20)		19040	0	921320	5.25	4.83693
DINOPHYCEAE						
Dinoflagellates		1	0	48	20000	0.96777
Gymnodiniales		1	0	48	2000	0.09678
Gymnodiniales (small)		2	0	97	500	0.04839
Peridiniales		6	0	290	5000	1.45166
OTHER PHYTOPLANKTON						
Other small flagellates		12	0	581	80	0.04645
Prasinophytes		1	0	48	100	0.00484

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **09/02/2021**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0333						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**921320**		**4.83693**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**1027004**		**20.32236**

+ 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*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

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