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. :	6781621 20-54272
LOCALITY :	EM2020558_012
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA dominating the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) 1.0199 **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						
Centrales		1	0	49	200	0.00980
Nitzschia		4	0	196	400	0.07844
Pennales (small <20um)		160	0	7844	251	1.96882
CHLOROPHYCEAE						
Ankistrodesmoideae		900	0	44122	132	5.82410
Chlorococcoids (<10um)		1660	0	81381	60	4.88283
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01569
CYANOPHYCEAE						
Synechococcales small (iauv <20)		19920	0	976566	5.25	5.12697
DINOPHYCEAE						
Gymnodiniales		2	0	98	2000	0.19610
Gymnodiniales (small)		9	0	441	500	0.22061
Peridiniales		1	0	49	5000	0.24512
OTHER PHYTOPLANKTON						
Prasinophytes		1	0	49	100	0.00490

TOTAL BGA	**976566**	**5.12697**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1110844**	**18.57339**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **23/11/2020**
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* DATE: **23/11/2020**
Biologist **Biologist**

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