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. :	7241903 21-55807
LOCALITY :	EM2123012-004
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	17/11/2021
DATE ANALYSED :	23/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 **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	0.00971
Chaetoceros		79	0	3834	200	0.76677
Nitzschia		0	3	6	400	0.00233
CHLOROPHYCEAE						
Ankistrodesmoideae		1	0	49	132	0.00641
Chlorococcoids (<10um)		3	0	146	60	0.00874
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01553
CYANOPHYCEAE						
Synechococcales small (iauv <20)		16	0	776	5.25	0.00408
DINOPHYCEAE						
Gymnodiniales		0	3	6	2000	0.01165
Gymnodiniales (small)		0	1	2	500	0.00097
OTHER PHYTOPLANKTON						
Other small flagellates		9	0	437	80	0.03494
Prasinophytes		3	0	146	100	0.01456

TOTAL BGA	**776**	**0.00408**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**5500**	**0.87567**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **23/11/2021**
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: **23/11/2021**

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