ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7116649 21-39298
LOCALITY :	EM2115770-005
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	10/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

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

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						
Chaetoceros		0	18	35	200	0.00706
Naviculales		1	0	49	1400	0.06863
Pennales		1	0	49	300	0.01471
Pennales (small <20um)		1	0	49	251	0.01231
CHLOROPHYCEAE						
Chlorococcoids (<10um)		7	0	343	60	0.02059
CRYPTOPHYCEAE						
Cryptomonads		7	0	343	320	0.10981
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	28	55	60.8	0.00334
Pseudanabaena		0	14	27	12.5	0.00034
Synechococcales small (iauv <20)		6	0	294	5.25	0.00154
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	294	80	0.02353

TOTAL BGA	**376**	**0.00523**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**55**	**0.00334**
TOTAL ALGAE	**1538**	**0.26187**

+ 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: *Louise Ungemach (signatory)* **Biologist**

DATE: **13/08/2021**

METHOD NO.: MB010/MW024VCA