ALS Water
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ilac-MRA NATA
Accreditation No. 992
Accredited for compliance with ISO/IEC 17025 - Testing

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7217244 21-52414
LOCALITY :	EM2121437-004
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	8/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current levels unlikely to impair water quality. Amended: Locality code corrected.

Sedgewick-Rafter Vol.(ml) 1.0311 **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						
Licmophora		0	9	17	850	0.01484
Navicula		0	1	2	1400	0.00272
Pennales		0	1	2	300	0.00058
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1	0	48	60	0.00291
CRYPTOPHYCEAE						
Cryptomonads		2	0	97	320	0.03103
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	124	241	60.8	0.01462
Synechococcales small (iauv <20)		18	0	873	5.25	0.00458
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	97	80	0.00776

TOTAL BGA	**1114**	**0.01921**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**241**	**0.01462**
TOTAL ALGAE	**1377**	**0.07905**

+ 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: **12/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA