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. :	7171291 21-46438
LOCALITY :	EM2119079-005
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	23/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community 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		3	0	146	200	0.02912
Chaetoceros		1	0	49	200	0.00971
Licmophora		0	1	2	850	0.00165
Pennales		1	0	49	300	0.01456
CHLOROPHYCEAE						
Ankistrodesmoideae		6	0	291	132	0.03844
Chlorococcoids (<10um)		4	0	194	60	0.01165
Crucigenia		10	0	485	30	0.01456
CHRYSOPHYCEAE						
Other Chrysophyceae		3	0	146	350	0.05096
CRYPTOPHYCEAE						
Cryptomonads		4	0	194	320	0.06212
CYANOPHYCEAE						
Synechococcales small (iauv <20)		11	0	534	5.25	0.00280
DINOPHYCEAE						
Dinoflagellate cysts		0	1	2	40000	0.07765
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	291	80	0.02329
Raphidophytes		5	0	243	7000	1.69853

TOTAL BGA	**534**	**0.00280**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2626**	**2.03503**

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **29/09/2021**

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* **Biologist**

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

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