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. :	7609393 22-60564
LOCALITY :	EM22151-003
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	8/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed, but current combined levels are insufficient to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0195 **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						
Aulacoseira		1	0	49	2860	0.14026
Centrales - (5-10um)		4	0	196	80	0.01569
Chaetoceros		0	5	10	200	0.00196
Cocconeis		0	1	2	450	0.00088
Naviculales		1	0	49	1400	0.06866
Pennales (small <20um)		7	0	343	251	0.08617
CHLOROPHYCEAE						
Chlamydomonads		2	0	98	250	0.02452
Chlorococcoids (<10um)		17	0	834	60	0.05002
Crucigenia		20	0	981	30	0.02943
Monoraphidium (small)		7	0	343	16	0.00549
Oocystis (small)		4	0	196	100	0.01962
Planctonema		0	89	175	800	0.13968
Tetrastrum		4	0	196	40	0.00785
CRYPTOPHYCEAE						
Cryptomonads		11	0	539	320	0.17263
Cryptomonas		2	0	98	320	0.03139
CYANOPHYCEAE						
Leptolyngbya		0	8	16	2.36	0.00004
Planktolyngbya		56	0	2746	3.8	0.01044
Synechococcales small (iauv <20)		34	0	1667	5.25	0.00875
DINOPHYCEAE						
Gymnodiniales (small)		1	0	49	500	0.02452
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	147	80	0.01177

ANALYST: *Karen Simonsen (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **12/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0195						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**4429**	**0.01923**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**8734**	**0.84978**

+ 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.***

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