ALS Water
22 Dalmore Drive Scoresby 3179
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6933878 21-15798
LOCALITY :	EM2104707-015
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	18/03/2021
DATE ANALYSED :	22/03/2021
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) 1.0242 **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	33	64	200	0.01289
Pennales (small <20um)		1	0	49	251	0.01225
CHLOROPHYCEAE						
Ankistrodesmoideae		2	0	98	132	0.01289
Chlorococcoids (<10um)		21	0	1025	60	0.06151
CHRYSOPHYCEAE						
Other Chrysophyceae		3	0	146	350	0.05126
CRYPTOPHYCEAE						
Cryptomonads		5	0	244	320	0.07811
CYANOPHYCEAE						
Synechococcales small (iauv <20)		74	0	3613	5.25	0.01897
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97637
OTHER PHYTOPLANKTON						
Other small flagellates		13	0	635	80	0.05077

TOTAL BGA	**3613**	**0.01897**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**5923**	**1.27502**

+ 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: **23/03/2021**

METHOD NO.: MB010/MW024VCA