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. :	7684094 22-64966
LOCALITY :	EM2216763-002
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	30/08/2022
DATE ANALYSED :	6/09/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algae was observed. Water quality is unlikely to be affected.

Sedgewick-Rafter Vol.(ml) 1.02 **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		0	3	6	2860	0.01682
Centrales		1	0	49	200	0.00980
Chaetoceros		4	0	196	200	0.03922
Pennales		0	3	6	300	0.00176
Pennales (small <20um)		6	0	294	251	0.07382
CHLOROPHYCEAE						
Chlorococcoids (<10um)		33	0	1618	60	0.09706
Crucigenia		16	0	784	30	0.02353
Didymocystis		2	0	98	41	0.00402
Filamentous Green		4	0	196	386	0.07569
Monoraphidium (small)		2	0	98	16	0.00157
Monoraphidium (large)		0	1	2	400	0.00078
Oocystis (small)		1	0	49	100	0.00490
Staurastrum		0	2	4	2000	0.00784
CRYPTOPHYCEAE						
Cryptomonads		21	0	1029	320	0.32941
CYANOPHYCEAE						
Planktolyngbya		20	0	980	3.8	0.00373
Synechococcales small (iauv <20)		25	0	1225	5.25	0.00643
DINOPHYCEAE						
Gymnodiniales		0	1	2	2000	0.00392

ANALYST: *Lauren Minett (signatory)* **Biologist** REVIEWED: *Louise Ungemach (signatory)* **Biologist** DATE: **06/09/2022**

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)	1.02						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**2205**		**0.01016**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**6636**		**0.70032**

+ 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: *Lauren Minett (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **06/09/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA