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. :	7136726 21-41798
LOCALITY :	EM2116912-004
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	25/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Currents levels of low biovolume BGA Synechococcales are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0018 **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		35	0	1747	200	0.34937
Naviculales		0	1	2	1400	0.00279
Pennales (small <20um)		1	0	50	251	0.01253
CHLOROPHYCEAE						
Ankistrodesmoideae		0	2	4	132	0.00053
Chlamydomonads		1	0	50	250	0.01248
Chlorococcoids (<10um)		10	0	499	60	0.02995
Crucigenia		60	0	2995	30	0.08984
Lagerheimia		1	0	50	500	0.02496
Monoraphidium		4	0	200	900	0.17968
Oocystis		16	0	799	300	0.23957
Planctonema		91	0	4542	800	3.63346
Scenedesmus		8	0	399	250	0.09982
CRYPTOPHYCEAE						
Cryptomonads		6	0	299	320	0.09583
CYANOPHYCEAE						
Limnolyngbya		408	0	20363	4.9	0.09978
Planktolyngbya		95	0	4741	3.8	0.01802
Synechococcales small (iauv <20)		1064	0	53104	5.25	0.27880
DINOPHYCEAE						
Gymnodiniales		28	0	1397	2000	2.79497
OTHER PHYTOPLANKTON						
Raphidophytes		4	0	200	7000	1.39748

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **27/08/2021**
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)	1.0018						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**78208**	**0.39660**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**91441**	**9.35984**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **27/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA