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. :	7281146 21-59669
LOCALITY :	EM2125413-005
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	13/12/2021
DATE ANALYSED :	21/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Low levels of algae are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0011 **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						
Licmophora		2	0	100	850	0.08491
Naviculales		1	0	50	1400	0.06992
Nitzschia		3	0	150	400	0.05993
Pennales		4	0	200	300	0.05993
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1	0	50	60	0.00300
Crucigenia		12	0	599	30	0.01798
Lagerheimia		2	0	100	500	0.04995
Monoraphidium (small)		2	0	100	16	0.00160
Monoraphidium (large)		1	0	50	400	0.01998
Oocystis		4	0	200	300	0.05993
Planctonema		35	0	1748	800	1.39846
CRYPTOPHYCEAE						
Cryptomonads		1	0	50	320	0.01598
CYANOPHYCEAE						
Planktolyngbya		80	0	3996	3.8	0.01518
Pseudanabaena		6	0	300	12.5	0.00375
Synechococcales small (iauv <20)		42	0	2098	5.25	0.01101
DINOPHYCEAE						
Gymnodiniales (small)		4	0	200	500	0.09989
OTHER PHYTOPLANKTON						
Prasinophytes		27	0	1349	100	0.13485

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **22/12/2021**
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)	1.0011						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**6394**	**0.02994**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**11340**	**2.10626**

+ 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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **22/12/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA