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. :	7064959 21-32332
LOCALITY :	EM2112381-004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	1/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Current combined levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0235 **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						
Amphora		4	0	195	500	0.09770
Cocconeis		0	1	2	450	0.00088
Nitzschia		113	0	5520	400	2.20811
Pennales (small <20um)		4	0	195	251	0.04905
CHLOROPHYCEAE						
Ankistrodesmoideae		372	0	18173	132	2.39883
Chlamydomonads		1	0	49	250	0.01221
Chlorococcoids (<10um)		272	0	13288	60	0.79726
CRYPTOPHYCEAE						
Cryptomonads		0	1	2	320	0.00063
CYANOPHYCEAE						
Planktolyngbya		50	0	2443	3.8	0.00928
Synechococcales small (iauv <20)		32320	0	1578896	5.25	8.28920
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97704
Gymnodiniales (small)		81	0	3957	500	1.97851
OTHER PHYTOPLANKTON						
Other small flagellates		13	0	635	80	0.05081
Raphidophytes		11	0	537	7000	3.76160

TOTAL BGA	**1581339**	**8.29849**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1623941**	**20.63111**

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **05/07/2021**
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)	1.0235						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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: ***Louise Ungemach (signatory)*** DATE: **05/07/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA