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. :	7548891 22-57206
LOCALITY :	EM2213882-008
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	26/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with high levels of algae sufficient to impair 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						
Entomoneis		0	2	4	1000	0.00391
Nitzschia		6	0	293	400	0.11716
Pennales		4	0	195	300	0.05858
Pennales (small <20um)		3	0	146	251	0.03676
CHLOROPHYCEAE						
Ankistrodesmoideae		1020	0	49795	132	6.57293
Chlamydomonads		1	0	49	250	0.01220
Chlorococcoids (<10um)		8260	0	403242	60	24.19449
CYANOPHYCEAE						
Synechococcales small (iauv <20)		16100	0	785979	5.25	4.12639
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97637
Gymnodiniales		12	0	586	2000	1.17165
Gymnodiniales (small)		19	0	928	500	0.46378
Peridiniales		0	2	4	5000	0.01953
OTHER PHYTOPLANKTON						
Other small flagellates		420	0	20504	80	1.64030

TOTAL BGA	**785979**	**4.12639**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1261774**	**39.39406**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **26/07/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **26/07/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA