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. :	7086210 21-35420
LOCALITY :	EM2113768-003
SITE :	South Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	13/07/2021
DATE ANALYSED :	19/07/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0327 **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		0	1	2	500	0.00097
Nitzschia		4	0	194	400	0.07747
Pennales		3	0	145	300	0.04358
Pennales (small <20um)		2	0	97	251	0.02431
CHLOROPHYCEAE						
Ankistrodesmoideae		97	0	4696	132	0.61993
Chlorococcoids (<10um)		47	0	2276	60	0.13654
CYANOPHYCEAE						
Planktolyngbya		10	0	484	3.8	0.00184
Synechococcales small (iauv <20)		22880	0	1107776	5.25	5.81582
DINOPHYCEAE						
Dinoflagellates		1	0	48	20000	0.96834
Gymnodiniales (small)		4	0	194	500	0.09683
Peridiniales		1	0	48	5000	0.24208
OTHER PHYTOPLANKTON						
Other small flagellates		25	0	1210	80	0.09683
Prasinophytes		5	0	242	100	0.02421
Raphidophytes		7	0	339	7000	2.37242

TOTAL BGA	**1108260**	**5.81766**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1117751**	**10.52116**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **20/07/2021**

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: *Adam Deliyiannis* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **20/07/2021**

METHOD NO.: MB010/MW024VCA