ALS Water
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. :	7007872 21-25384
LOCALITY :	EM2108900-003
SITE :	Sth Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	18/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.024 **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						
Naviculales		2	0	98	1400	0.13672
Nitzschia		144	0	7031	400	2.81250
Pennales		2	0	98	300	0.02930
CHLOROPHYCEAE						
Ankistrodesmoideae		72	0	3516	132	0.46406
Chlamydomonads		0	1	2	250	0.00049
Chlorococcoids (<10um)		460	0	22461	60	1.34766
Chlorogonium		0	1	2	50	0.00010
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	98	350	0.03418
CYANOPHYCEAE						
Planktolyngbya		523	0	25537	3.8	0.09704
Synechococcales small (iauv <20)		9920	0	484375	5.25	2.54297
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97656
Gymnodiniales (small)		10	0	488	500	0.24414
Peridiniales		1	0	49	5000	0.24414
OTHER PHYTOPLANKTON						
Other small flagellates		10	0	488	80	0.03906

TOTAL BGA	**509912**	**2.64001**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**544292**	**8.96892**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **19/05/2021**

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: *Louise Ungemach (signatory)* **Biologist**

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