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. :	6750294 20-50047
LOCALITY :	EM201892-003
SITE :	South Policeman Point/Seagull
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels of algae are sufficient to impair 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						
Amphora		0	1	2	500	0.00098
Naviculales		0	2	4	1400	0.00547
Nitzschia		6	0	293	400	0.11719
Pennales (small <20um)		2	0	98	251	0.02451
CHLOROPHYCEAE						
Ankistrodesmoideae		148	0	7227	132	0.95391
Chlorococcoids (<10um)		3040	0	148438	60	8.90625
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01709
CRYPTOPHYCEAE						
Cryptomonads		6	0	293	320	0.09375
CYANOPHYCEAE						
Planktolyngbya		38	0	1855	3.8	0.00705
Pseudanabaena		0	22	43	12.5	0.00054
Synechococcales small (iauv <20)		17600	0	859375	5.25	4.51172
DINOPHYCEAE						
Gymnodiniales		3	0	146	2000	0.29297
Gymnodiniales (small)		19	0	928	500	0.46387
Peridiniales		2	0	98	5000	0.48828
OTHER PHYTOPLANKTON						
Other small flagellates		570	0	27832	80	2.22656
Prasinophytes		3	0	146	100	0.01465

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **27/10/2020**

METHOD NO.: MB010/MW024CV

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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)	1.024						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**861273**		**4.51931**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**1046827**		**18.12478**

+ 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**

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