ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722403 20-45935
LOCALITY :	EM2017172-001
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	7/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and low bioviolume BGA most numerous. Current combined levels may impair 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		1	0	49	500	0.02443
Chaetoceros		3	0	147	200	0.02931
Naviculales		0	1	2	1400	0.00274
Nitzschia		3	0	147	400	0.05862
Pennales (small <20um)		1	0	49	251	0.01226
CHLOROPHYCEAE						
Ankistrodesmoideae		128	0	6253	132	0.82540
Chlamydomonads		2	0	98	250	0.02443
Chlorococcoids (<10um)		1480	0	72301	60	4.33806
CHRYSOPHYCEAE						
Other Chrysophyceae		4	0	195	350	0.06839
CRYPTOPHYCEAE						
Cryptomonads		11	0	537	320	0.17196
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	58	113	17.5	0.00198
Oscillatoriales (iauv 1-100)	P	0	39	76	60.8	0.00463
Planktolyngbya		24	0	1172	3.8	0.00446
Pseudanabaena		0	29	57	12.5	0.00071
Synechococcales small (iauv <20)		3240	0	158280	5.25	0.83097
DINOPHYCEAE						
Dinoflagellates		2	0	98	20000	1.95408
Gymnodiniales (small)		17	0	830	500	0.41524
Peridiniales		6	0	293	5000	1.46556
OTHER PHYTOPLANKTON						
Other small flagellates		124	0	6058	80	0.48461

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Karen Simonsen (signatory)* **Biologist**

DATE: **07/10/2020**

METHOD NO.: MB010/MW024CV

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Prasinophytes		9	0	440	100	0.04397

TOTAL BGA	**159698**	**0.84275**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**189**	**0.00662**
TOTAL ALGAE	**247195**	**10.76180**

+ 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**

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