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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681706 20-40763
LOCALITY :	EM2014780-001
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	31/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current excessive levels of small BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **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		0	6	12	400	0.00466
Pennales (small <20um)		1	0	48	251	0.01217
CHLOROPHYCEAE						
Ankistrodesmoideae		100	0	4849	132	0.64009
Chlorococcoids (<10um)		5120	0	248279	60	14.89671
CRYPTOPHYCEAE						
Cryptomonads		19	0	921	320	0.29483
CYANOPHYCEAE						
Planktolyngbya		68	0	3297	3.8	0.01253
Synechococcales small (iauv <20)		10880	0	527592	5.25	2.76986
DINOPHYCEAE						
Dinoflagellates		0	2	4	20000	0.07759
Gymnodiniales		0	2	4	2000	0.00776
Gymnodiniales (small)		12	0	582	500	0.29095
Peridiniales		2	0	97	5000	0.48492
OTHER PHYTOPLANKTON						
Other small flagellates		8	0	388	80	0.03103
Prasinophytes		1	0	48	100	0.00485

TOTAL BGA	**530889**	**2.78239**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**786123**	**19.52892**

ANALYST: ***Adam Deliyiannis*** **Biologist**

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

DATE: **31/08/2020**

METHOD NO.: MB010/MW024CV

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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**

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