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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657122 20-37229
LOCALITY :	EM2013637_004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0208 **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		2	0	98	500	0.04898
Navicula		1	0	49	1400	0.06857
Nitzschia		88	0	4310	400	1.72414
Pennales		0	1	2	300	0.00059
Pennales (small <20um)		7	0	343	251	0.08606
CHLOROPHYCEAE						
Ankistrodesmoideae		360	0	17633	132	2.32759
Chlorococcoids (<10um)		4600	0	225313	60	13.51881
CRYPTOPHYCEAE						
Cryptomonads		13	0	637	320	0.20376
CYANOPHYCEAE						
Planktolyngbya		54	0	2645	3.8	0.01005
Synechococcales small (iauv <20)		11400	0	558386	5.25	2.93152
DINOPHYCEAE						
Gymnodiniales		18	0	882	2000	1.76332
Gymnodiniales (small)		11	0	539	500	0.26940
Peridiniales		5	0	245	5000	1.22453
OTHER PHYTOPLANKTON						
Other small flagellates		92	0	4506	80	0.36050
Prasinophytes		24	0	1176	100	0.11755

TOTAL BGA	**561031**	**2.94158**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**816764**	**24.65538**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **11/08/2020**
Biologist **Biologist**

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: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **11/08/2020**

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