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. :	6933867 21-15798
LOCALITY :	EM2104707_004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	22/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of low biovolume BGA, greens and diatoms were present. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) 1.0291 **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						
Centrales		2	0	97	200	0.01943
Nitzschia		170	0	8260	400	3.30386
Pennales		1	0	49	300	0.01458
Pennales (small <20um)		1	0	49	251	0.01220
CHLOROPHYCEAE						
Ankistrodesmoideae		575	0	27937	132	3.68769
Chlamydomonads		1	0	49	250	0.01215
Chlorococcoids (<10um)		310	0	15062	60	0.90370
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01555
CYANOPHYCEAE						
Synechococcales small (iauv <20)		3380	0	164221	5.25	0.86216
DINOPHYCEAE						
Dinoflagellates		12	0	583	20000	11.66067
Gymnodiniales (small)		6	0	292	500	0.14576
OTHER PHYTOPLANKTON						
Other small flagellates		60	0	2915	80	0.23321
Prasinophytes		4	0	194	100	0.01943

TOTAL BGA	**164221**	**0.86216**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**219757**	**20.89039**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **23/03/2021**
Biologist **Biologist**

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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **23/03/2021**
Biologist **Biologist**

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