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. :	6781625 20-54272
LOCALITY :	EM2020558_016
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA dominating the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) 1.0327 **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	48	500	0.02421
Centrales		1	0	48	200	0.00968
Naviculales		2	0	97	1400	0.13557
Nitzschia		2	0	97	400	0.03873
Pennales (small <20um)		20	0	968	251	0.24305
CHLOROPHYCEAE						
Ankistrodesmoideae		670	0	32439	132	4.28198
Chlorococcoids (<10um)		2160	0	104580	60	6.27481
CRYPTOPHYCEAE						
Cryptomonads		0	4	8	320	0.00248
CYANOPHYCEAE						
Spirulina		0	330	639	5.73	0.00366
Synechococcales small (iauv <20)		11040	0	534521	5.25	2.80624
DINOPHYCEAE						
Dinoflagellates		1	0	48	20000	0.96834
Gymnodiniales		2	0	97	2000	0.19367
Gymnodiniales (small)		10	0	484	500	0.24208
Peridiniales		1	0	48	5000	0.24208
OTHER PHYTOPLANKTON						
Other small flagellates		60	0	2905	80	0.23240

TOTAL BGA	**535160**	**2.80990**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**677027**	**15.69898**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **23/11/2020**
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: **23/11/2020**
Biologist **Biologist**

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