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. :	6796581 20-56146
LOCALITY :	EM2021368_006
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	30/11/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA and greens abundant. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) 1.0145 **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	0.02464
Centrales		1	0	49	200	0.00986
Nitzschia		3	0	148	400	0.05914
Pennales		2	0	99	300	0.02957
Pennales (small <20um)		15	0	739	251	0.18556
CHLOROPHYCEAE						
Ankistrodesmoideae		1140	0	56185	132	7.41646
Chlorococcoids (<10um)		6160	0	303598	60	18.21587
Oocystis		1	0	49	300	0.01479
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	99	350	0.03450
CRYPTOPHYCEAE						
Cryptomonads		2	0	99	320	0.03154
CYANOPHYCEAE						
Limnolyngbya (Planktolyngbya circumcreta)		14	0	690	4.9	0.00338
Oscillatoriales (iauv 1-100)	P	0	63	124	60.8	0.00755
Pseudanabaena		7	0	345	12.5	0.00431
Spirulina		0	72	142	5.73	0.00081
Synechococcales small (iauv <20)		39680	0	1955643	5.25	10.26713
DINOPHYCEAE						
Dinoflagellates		6	0	296	20000	5.91424
Gymnodiniales		6	0	296	2000	0.59142
Gymnodiniales (small)		6	0	296	500	0.14786
Peridiniales		2	0	99	5000	0.49285
OTHER PHYTOPLANKTON						

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **04/12/2020**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Other small flagellates		40	0	1971	80	0.15771

TOTAL BGA	**1956944**	**10.28318**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**124**	**0.00755**
TOTAL ALGAE	**2321016**	**43.60921**

+ 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)* **Biologist**
REVIEWED: *Adam Deliyiannis* **Biologist**
DATE: **04/12/2020**

METHOD NO.: MB010/MW024VCA