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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695264 20-42534
LOCALITY :	EM2015594_016
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	9/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with high levels of small BGA and greens present. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1.0046 **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	50	500	0.02489
Centrales		4	0	199	200	0.03982
Chaetoceros		2	0	100	200	0.01991
Nitzschia		57	0	2837	400	1.13478
Pennales		1	0	50	300	0.01493
Pennales (small <20um)		4	0	199	251	0.04997
CHLOROPHYCEAE						
Ankistrodesmoideae		290	0	14434	132	1.90524
Chlamydomonads		2	0	100	250	0.02489
Chlorococcoids (<10um)		3300	0	164244	60	9.85467
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	50	350	0.01742
CRYPTOPHYCEAE						
Cryptomonads		11	0	547	320	0.17519
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	120	239	17.5	0.00418
Planktolyngbya		15	0	747	3.8	0.00284
Pseudanabaena		7	0	348	12.5	0.00435
Synechococcales small (iauv <20)		7380	0	367310	5.25	1.92838
DINOPHYCEAE						
Dinoflagellates		0	17	34	20000	0.67689
Gymnodiniales		9	0	448	2000	0.89588
Gymnodiniales (small)		7	0	348	500	0.17420
Peridiniales		0	25	50	5000	0.24886
OTHER PHYTOPLANKTON						

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **14/09/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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Other small flagellates		160	0	7963	80	0.63707
Prasinophytes		1	0	50	100	0.00498

TOTAL BGA	**368644**	**1.93975**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**239**	**0.00418**
TOTAL ALGAE	**560347**	**17.83931**

+ 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: **14/09/2020**

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