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. :	6796582 20-56146
LOCALITY :	EM2021368_007
SITE :	1.8km West of Salt Creek
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) 1.0018 **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						
Naviculales		1	0	50	1400	0.06987
Nitzschia		5	0	250	400	0.09982
Pennales		1	0	50	300	0.01497
Pennales (small <20um)		28	0	1397	251	0.35077
Pleurosigma		0	1	2	2000	0.00399
CHLOROPHYCEAE						
Ankistrodesmoideae		1240	0	61889	132	8.16930
Chlorococcoids (<10um)		5200	0	259533	60	15.57197
CRYPTOPHYCEAE						
Cryptomonads		2	0	100	320	0.03194
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	39	78	60.8	0.00473
Pseudanabaena		0	20	40	12.5	0.00050
Spirulina		0	204	407	5.73	0.00233
Synechococcales small (iauv <20)		0	38160	76183	5.25	0.39996
DINOPHYCEAE						
Dinoflagellates		4	0	200	20000	3.99281
Gymnodiniales		3	0	150	2000	0.29946
Gymnodiniales (small)		13	0	649	500	0.32442
Peridiniales		1	0	50	5000	0.24955
OTHER PHYTOPLANKTON						
Other small flagellates		64	0	3194	80	0.25554
Prasinophytes		2	0	100	100	0.00998

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

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0018						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**76708**		**0.40753**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**78**		**0.00473**
TOTAL ALGAE					**404322**		**29.85193**

+ 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: **04/12/2020**
Biologist **Biologist**

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