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. :	6750296 20-50047
LOCALITY :	EM2018692_005
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA and greens dominated the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) 1.0274 **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		0	1	2	500	0.00097
Cocconeis		0	1	2	450	0.00088
Naviculales		0	5	10	1400	0.01363
Nitzschia		4	0	195	400	0.07787
Pennales		0	2	4	300	0.00117
CHLOROPHYCEAE						
Ankistrodesmoideae		780	0	37960	132	5.01071
Chlamydomonads		2	0	97	250	0.02433
Chlorococcoids (<10um)		9800	0	476932	60	28.61592
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01703
CRYPTOPHYCEAE						
Cryptomonads		4	0	195	320	0.06229
CYANOPHYCEAE						
Planktolyngbya		32	0	1557	3.8	0.00592
Pseudanabaena		0	5	10	12.5	0.00012
Synechococcales small (iauv <20)		36480	0	1775355	5.25	9.32062
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09733
Gymnodiniales (small)		12	0	584	500	0.29200
Peridiniales		3	0	146	5000	0.73000
OTHER PHYTOPLANKTON						
Other small flagellates		700	0	34067	80	2.72533

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **27/10/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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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)	1.0274						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1776922**		**9.32665**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**2327214**		**46.99611**

+ 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: **27/10/2020**
Biologist **Biologist**

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