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. :	7394988 22-15545
LOCALITY :	EM2204816-016
SITE :	Seagull Island
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Current algal levels are sufficient to impair water quality (eg: discolouration).

Sedgewick-Rafter Vol.(ml) 1.042 **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						
Centrales		1	0	48	200	0.00960
Nitzschia		560	0	26871	400	10.74856
Pennales		4	0	192	300	0.05758
Pennales (small <20um)		20	0	960	251	0.24088
CHLOROPHYCEAE						
Ankistrodesmoideae		4340	0	208253	132	27.48944
Carteria		1	0	48	300	0.01440
Chlorococcoids (<10um)		7420	0	356046	60	21.36276
Oocystis		6	0	288	300	0.08637
CRYPTOPHYCEAE						
Cryptomonads		12	0	576	320	0.18426
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	250	480	17.5	0.00840
Synechococcales small (iauv <20)		49140	0	2357965	5.25	12.37932
DINOPHYCEAE						
Gymnodiniales		1	0	48	2000	0.09597
Gymnodiniales (small)		4	0	192	500	0.09597
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	192	80	0.01536

TOTAL BGA	**2358445**	**12.38772**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**480**	**0.00840**
TOTAL ALGAE	**2952159**	**72.78887**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **25/03/2022**
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 (signatory)* DATE: **25/03/2022**
Biologist **Biologist**

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