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. :	239356 22-48116
LOCALITY :	EM2210355-005
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	2/06/2022
DATE ANALYSED :	14/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels of are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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	0.02441
Chaetoceros		7	0	342	200	0.06835
Naviculales		1	0	49	1400	0.06835
Nitzschia		44	0	2148	400	0.85921
Pennales		2	0	98	300	0.02929
CHLOROPHYCEAE						
Ankistrodesmoideae		450	0	21968	132	2.89982
Chlamydomonads		1	0	49	250	0.01220
Chlorococcoids (<10um)		1135	0	55409	60	3.32455
Monoraphidium (small)		10	0	488	16	0.00781
CRYPTOPHYCEAE						
Cryptomonads		3	0	146	320	0.04687
CYANOPHYCEAE						
Synechococcales small (iauv <20)		7220	0	352470	5.25	1.85047
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97637
Gymnodiniales		5	0	244	2000	0.48819
Gymnodiniales (small)		5	0	244	500	0.12205
Peridiniales		2	0	98	5000	0.48819
OTHER PHYTOPLANKTON						
Prasinophytes		2	0	98	100	0.00976

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **14/06/2022**
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)	1.0242						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**352470**		**1.85047**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**433949**		**11.27587**

+ 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: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **14/06/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA