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. :	7791206 22-70933
LOCALITY :	EM2218952_005
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	10/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of small BGA and greens are likely to have an impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0195 **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		2	0	98	200	0.01962
Chaetoceros		1	0	49	200	0.00981
Naviculales		2	0	98	1400	0.13732
Pennales		6	0	294	300	0.08828
Pennales (small <20um)		1	0	49	251	0.01231
CHLOROPHYCEAE						
Ankistrodesmoideae		320	0	15694	132	2.07160
Chlamydomonads		3	0	147	250	0.03678
Chlorococcoids (<10um)		1100	0	53948	60	3.23688
CRYPTOPHYCEAE						
Cryptomonads		5	0	245	320	0.07847
CYANOPHYCEAE						
Pseudanabaena		0	12	24	12.5	0.00029
Synechococcales small (iauv <20)		8600	0	421775	5.25	2.21432
DINOPHYCEAE						
Gymnodiniales		10	0	490	2000	0.98087
Gymnodiniales (small)		2	0	98	500	0.04904
OTHER PHYTOPLANKTON						
Other small flagellates		100	0	4904	80	0.39235

TOTAL BGA	**421799**	**2.21462**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**497913**	**9.32795**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **10/10/2022**
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: **10/10/2022**

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