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. :	7684097 22-64966
LOCALITY :	EM2216763-005
SITE :	Stoney Well
SAMPLE :	Surface
DATE SAMPLED :	31/08/2022
DATE ANALYSED :	6/09/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algae was observed. Levels may impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0247 **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						
Chaetoceros		0	2	4	200	0.00078
Pennales		7	0	342	300	0.10247
Pennales (small <20um)		0	1	2	251	0.00049
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1050	0	51235	60	3.07407
Monoraphidium (small)		89	0	4343	16	0.06948
Oocystis (small)		1	0	49	100	0.00488
CRYPTOPHYCEAE						
Chroomonas		28	0	1366	60	0.08198
CYANOPHYCEAE						
Planktolyngbya		10	0	488	3.8	0.00185
Synechococcales small (iauv <20)		2170	0	105885	5.25	0.55589
DINOPHYCEAE						
Gymnodiniales		0	6	12	2000	0.02342
Gymnodiniales (small)		0	1	2	500	0.00098

TOTAL BGA	**106373**	**0.55775**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**163728**	**3.91629**

+ 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: *Lauren Minett (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **06/09/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA