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. :	7545135 22-57032
LOCALITY :	EM2213883-008
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	26/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current levels unlikely to influence 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						
Centrales		4	0	195	200	0.03905
Chaetoceros		9	0	439	200	0.08787
Pennales		1	0	49	300	0.01465
CHLOROPHYCEAE						
Chlamydomonads		2	0	98	250	0.02441
Chlorococcoids (<10um)		21	0	1025	60	0.06151
Cosmarium		1	0	49	500	0.02441
Dictyosphaerium		12	0	586	20	0.01172
Lagerheimia		1	0	49	500	0.02441
Monoraphidium (small)		55	0	2685	16	0.04296
Oocystis		2	0	98	300	0.02929
CRYPTOPHYCEAE						
Cryptomonads		2	0	98	320	0.03124
CYANOPHYCEAE						
Komvophoron		0	33	64	33	0.00213
Synechococcales small (iauv <20)		21	0	1025	5.25	0.00538
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97637
Gymnodiniales		8	0	391	2000	0.78110
Gymnodiniales (small)		6	0	293	500	0.14646
Peridiniales		4	0	195	5000	0.97637
EUGLENOPHYCEAE						
Phacus		0	1	2	6000	0.01172
OTHER PHYTOPLANKTON						
Other small flagellates		17	0	830	80	0.06639

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **26/07/2022**
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					**1089**		**0.00751**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**8220**		**3.35744**

+ 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.***

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