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. :	6956319 21-18638
LOCALITY :	EM2106129_016
SITE :	Morella Basin @ Gauge
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA most numerous. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0099 **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						
Cocconeis		5	0	248	450	0.11140
Naviculales		6	0	297	1400	0.41588
Nitzschia		0	1	2	400	0.00079
CHLOROPHYCEAE						
Chlamydomonads		1	0	50	250	0.01238
Chlorococcoids (<10um)		194	0	9605	60	0.57629
Oocystis		3	0	149	300	0.04456
Selenastrum		1	0	50	250	0.01238
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	50	350	0.01733
CRYPTOPHYCEAE						
Cryptomonads		1	0	50	320	0.01584
CYANOPHYCEAE						
Synechococcales small (iauv <20)		2700	0	133677	5.25	0.70180
DINOPHYCEAE						
Dinoflagellates		56	0	2773	20000	55.45103
Gymnodiniales		0	4	8	2000	0.01584
Gymnodiniales (small)		2	0	99	500	0.04951
Peridiniales		0	7	14	5000	0.06931
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	149	80	0.01188

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Karen Simonsen (signatory)*** DATE: **15/04/2021**
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)	1.0099						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**133677**		**0.70180**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**147221**		**57.50624**

+ 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: *Karen Simonsen (signatory)* DATE: **15/04/2021**
Biologist **Biologist**

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