

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6906816 21-12031
LOCALITY :	M2103113_005
SITE :	Morella Basin @ Outlet
SAMPLE :	Surface
DATE SAMPLED :	24/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current algal levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0274	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

Centrales		2	0	97	200	0.01947
Entomoneis		1	0	49	1000	0.04867
Naviculales		15	0	730	1400	1.02200
Pennales		5	0	243	300	0.07300
Pennales (small <20um)		2	0	97	251	0.02443

CHLOROPHYCEAE

Ankistrodesmus		1	0	49	132	0.00642
Chlamydomonads		1	0	49	250	0.01217
Chlorococcoids (<10um)		70	0	3407	60	0.20440
Crucigenia		12	0	584	30	0.01752
Filamentous Green		0	88	171	386	0.06612
Oocystis		31	0	1509	300	0.45260
Selenastrum		49	0	2385	250	0.59617

CHRYSTOPHYCEAE

Other Chrysophyceae		4	0	195	350	0.06813
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CRYPTOPHYCEAE

Cryptomonads		4	0	195	320	0.06229
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CYANOPHYCEAE

Chroococcus (small cells)		4	0	195	12	0.00234
Limnithrix/Geitlerinema/Anagnostidinema	P	0	55	107	17.5	0.00187
Synechococcales small (iauv <20)		63	0	3066	5.25	0.01610

DINOPHYCEAE

Dinoflagellates		4	0	195	20000	3.89332
Gymnodiniales		1	0	49	2000	0.09733
Gymnodiniales (small)		5	0	243	500	0.12167

ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **02/03/2021**

METHOD NO.: MB010/MW024VCA

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<i>Peridinales</i>			3	0	146	5000	0.73000
OTHER PHYTOPLANKTON							
<i>Other small flagellates</i>			23	0	1119	80	0.08955
TOTAL BGA					3368		0.02031
TOTAL TOXIGENIC BGA					0		0.00000
TOTAL POTENTIALLY TOXIC BGA					107		0.00187
TOTAL ALGAE					14880		7.62556

+ 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.