

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6933871 21-15798
LOCALITY :	EM2104707_008
SITE :	1.8km West of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	22/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of low biovolume BGA, greens and diatoms were present. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml)	1.0145	Toxicogenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

Centrales		1	0	49	200	0.00986
Naviculales		1	0	49	1400	0.06900
Nitzschia		140	0	6900	400	2.75998
Pennales		1	0	49	300	0.01479

CHLOROPHYCEAE

Ankistrodesmoideae		630	0	31050	132	4.09857
Chlorococcoids (<10um)		590	0	29078	60	1.74470

CYANOPHYCEAE

Limnithrix/Geitlerinema/Anagnostidinema	P	0	160	315	17.5	0.00552
Planktothrix (small cells)		0	230	453	56	0.02539
Synechococcales small (iauv <20)		3320	0	163627	5.25	0.85904

DINOPHYCEAE

Dinoflagellates		35	0	1725	20000	34.49975
Gymnodiniales (small)		14	0	690	500	0.34500

OTHER PHYTOPLANKTON

Other small flagellates		6	0	296	80	0.02366
Prasinophytes		5	0	246	100	0.02464

TOTAL BGA	164395	0.88996
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	315	0.00552
TOTAL ALGAE	234527	44.47990

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6933871 21-15798
LOCALITY :	EM2104707_008
SITE :	1.8km West of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	22/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of low biovolume BGA, greens and diatoms were present. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml)	1.0145	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

+ 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.