

## ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722414 20-45935
LOCALITY :	EM2017172-012
SITE :	DS Tauwiche
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	8/10/2020
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A highly diverse community of algal taxa was observed. High levels of greens and BGA are likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0291	Toxicogenic (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		6	0	292	200	0.05830
Pennales		1	0	49	300	0.01458
Pennales (small <20um)		1	0	49	251	0.01220

### CHLOROPHYCEAE

Ankistrodesmus		7	0	340	132	0.04489
Chlorococcoids (<10um)		14	0	680	60	0.04081
Closterium		0	2	4	4130	0.01605
Crucigenia		368	0	17880	30	0.53639
Dictyosphaerium		8	0	389	20	0.00777
Didymocystis		6	0	292	41	0.01195
Dimorphococcus		32	0	1555	20	0.03110
Eremosphaera		0	12	23	700	0.01632
Lagerheimia		3	0	146	500	0.07288
Oocystis		180	0	8746	300	2.62365
Pediastrum		8	0	389	60	0.02332
Planctonema		413	0	20066	800	16.05286
Scenedesmus		14	0	680	250	0.17005
Selenastrum		1	0	49	250	0.01215
Sphaerocystis		0	200	389	300	0.11661
Staurostrum		0	2	4	2000	0.00777

### CRYPTOPHYCEAE

Cryptomonads		2	0	97	320	0.03110
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### CYANOPHYCEAE

Limnolyngbya (Planktolynbya circumcreta)		444	0	21572	4.9	0.10570
Planktolynbya		835	0	40569	3.8	0.15416

ANALYST: **Adam Deliyiannis**  
Biologist

REVIEWED: **Karen Simonsen (signatory)**  
Biologist

DATE: **08/10/2020**

METHOD NO.: MB010/MW024CV

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<i>Synechococcales small (iauv &lt;20)</i>			16800	0	816247	5.25	4.28530
<i>Synechococcales large (iauv 20-86)</i>			0	216	420	54	0.02267
<b>DINOPHYCEAE</b>							
<i>Dinoflagellates</i>			1	0	49	20000	0.97172
<b>EUGLENOPHYCEAE</b>							
<i>Euglena</i>			1	0	49	7000	0.34010
<b>OTHER PHYTOPLANKTON</b>							
<i>Other small flagellates</i>			11	0	534	80	0.04276
<b>TOTAL BGA</b>			<b>878808</b>			<b>4.56783</b>	
<b>TOTAL TOXIGENIC BGA</b>			<b>0</b>			<b>0.00000</b>	
<b>TOTAL POTENTIALLY TOXIC BGA</b>			<b>0</b>			<b>0.00000</b>	
<b>TOTAL ALGAE</b>			<b>931559</b>			<b>25.82317</b>	

+ 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.