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. :	7217251 21-52414
LOCALITY :	EM2121437-017
SITE :	Tauwitchere D/S
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed. Excessive levels of low biovolume BGA will impact 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		3	0	146	200	0.02929
Pennales		1	0	49	300	0.01465
CHLOROPHYCEAE						
Chlorococcoids (<10um)		43	0	2099	60	0.12595
Closterium		1	0	49	4130	0.20162
Crucigenia		64	0	3124	30	0.09373
Didymocystis		2	0	98	41	0.00400
Dimorphococcus		12	0	586	20	0.01172
Eremosphaera		0	2	4	700	0.00273
Filamentous Green		62	0	3027	386	1.16833
Lagerheimia		4	0	195	500	0.09764
Monoraphidium		7	0	342	900	0.30756
Oocystis		47	0	2294	300	0.68834
Pediastrum		13	0	635	60	0.03808
Planctonema		327	0	15964	800	12.77094
Scenedesmus		36	0	1757	250	0.43937
Schroederia		2	0	98	550	0.05370
CYANOPHYCEAE						
Limnolyngbya (Planktolyngbya circumcreta)		5480	0	267526	4.9	1.31088
Planktolyngbya		3800	0	185511	3.8	0.70494
Synechococcales small (iauv <20)		6460	0	315368	5.25	1.65568
EUGLENOPHYCEAE						
Euglena		1	0	49	7000	0.34173
Trachelomonas		1	0	49	3000	0.14646
OTHER PHYTOPLANKTON						

ANALYST: *Adam Deliyiannis* **Biologist** REVIEWED: *Louise Ungemach (signatory)* **Biologist** DATE: **10/11/2021**

METHOD NO.: MB010/MW024VCA

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Other small flagellates		8	0	391	80	0.03124
Raphidophytes		4	0	195	7000	1.36692

TOTAL BGA	**768405**	**3.67150**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**799556**	**21.60550**

+ 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: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **10/11/2021**

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