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. :	7394980 22-15545
LOCALITY :	EM2204816-008
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	16/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels 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		1	0	49	200	0.00976
Entomoneis		1	0	49	1000	0.04882
Gyrosigma		0	2	4	1400	0.00547
Naviculales		1	0	49	1400	0.06835
Nitzschia		67	0	3271	400	1.30834
Pennales		6	0	293	300	0.08787
Pennales (small <20um)		7	0	342	251	0.08577
CHLOROPHYCEAE						
Ankistrodesmoideae		55	0	2685	132	0.35442
Carteria		2	0	98	300	0.02929
Chlorococcoids (<10um)		920	0	44913	60	2.69479
Monoraphidium (small)		1	0	49	16	0.00078
CYANOPHYCEAE						
Pseudanabaena		4	0	195	12.5	0.00244
Synechococcales small (iauv <20)		6260	0	305604	5.25	1.60442
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03905
Gymnodiniales		6	0	293	2000	0.58582
Gymnodiniales (small)		7	0	342	500	0.17087
Peridiniales		1	0	49	5000	0.24409
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	244	80	0.01953
Prasinophytes		3	0	146	100	0.01465

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **25/03/2022**
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)	1.0242						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**305799**		**1.60686**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**358677**		**7.37454**

+ 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 (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **25/03/2022**

Biologist **Biologist**

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