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. :	7428776 22-19601
LOCALITY :	EM2207234-008
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	20/04/2022
DATE ANALYSED :	26/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of low biovolume BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0199 **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						
Naviculales		1	0	49	1400	0.06863
Nitzschia		2	0	98	400	0.03922
Pennales		24	0	1177	300	0.35298
Pennales (small <20um)		72	0	3530	251	0.88597
Pleurosigma		0	1	2	2000	0.00392
CHLOROPHYCEAE						
Ankistrodesmoideae		80	0	3922	132	0.51770
Chlorococcoids (<10um)		3820	0	187273	60	11.23640
Filamentous Green		0	126	247	386	0.09537
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	98	350	0.03432
CRYPTOPHYCEAE						
Cryptomonads		20	0	980	320	0.31376
CYANOPHYCEAE						
Pseudanabaena		0	14	27	12.5	0.00034
Synechococcales small (iauv <20)		10020	0	491225	5.25	2.57893
DINOPHYCEAE						
Gymnodiniales		8	0	392	2000	0.78439
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00392
Prasinophytes		8	0	392	100	0.03922

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **26/04/2022**
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)	1.0199						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**491252**		**2.57927**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**689461**		**16.95507**

+ 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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **26/04/2022**
Biologist **Biologist**

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