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. :	7609399 22-60564
LOCALITY :	EM2215131-009
SITE :	Morella Creek @Gauge
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	15/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0266 **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	0.00974
Chaetoceros		5	0	244	200	0.04870
Nitzschia		1	0	49	400	0.01948
Pennales		1	0	49	300	0.01461
CHLOROPHYCEAE						
Chlorococcoids		1	0	49	500	0.02435
Chlorococcoids (<10um)		22	0	1071	60	0.06429
Filamentous Green		0	3	6	386	0.00226
Lagerheimia		1	0	49	500	0.02435
Monoraphidium (small)		10	0	487	16	0.00779
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	97	350	0.03409
CYANOPHYCEAE						
Pseudanabaena		4	0	195	12.5	0.00244
Synechococcales small (iauv <20)		202	0	9838	5.25	0.05165
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09741
Gymnodiniales (small)		3	0	146	500	0.07306
Peridiniales		4	0	195	5000	0.97409
EUGLENOPHYCEAE						
Euglenophytes		0	1	2	4420	0.00861
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	341	80	0.02727
Prasinophytes		4	0	195	100	0.01948

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**
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)	1.0266						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**10033**	**0.05409**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**13111**	**1.50368**

+ 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: *Lauren Minett (signatory)* DATE: **15/08/2022**
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