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. :	7064960 21-32332
LOCALITY :	EM2112381-005
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	1/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed, however combined levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0255 **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						
Chaetoceros		9	0	439	200	0.08776
Cocconeis		11	0	536	450	0.24135
Nitzschia		86	0	4193	400	1.67723
Pennales (small <20um)		3	0	146	251	0.03671
CHLOROPHYCEAE						
Chlamydomonads		3	0	146	250	0.03657
Chlorococcoids		17	0	829	500	0.41443
Monoraphidium		4	0	195	900	0.17552
CHRYSOPHYCEAE						
Other Chrysophytes		27	0	1316	200	0.26329
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01560
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	6	0	293	17.5	0.00512
Planktolyngbya		28	0	1365	3.8	0.00519
Synechococcales small (iauv <20)		4	0	195	5.25	0.00102
DINOPHYCEAE						
Dinoflagellates		0	2	4	20000	0.07801
Gymnodiniales		0	6	12	2000	0.02340
Gymnodiniales (small)		9	0	439	500	0.21941
Peridiniales		6	0	293	5000	1.46270
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	146	80	0.01170
Prasinophytes		149	0	7265	100	0.72647
Raphidophytes		12	0	585	7000	4.09556

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **02/07/2021**
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)	1.0255						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1853**		**0.01133**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**293**		**0.00512**
TOTAL ALGAE					**18446**		**9.57706**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **02/07/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA