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. :	7136737 21-41798
LOCALITY :	EM2116912-015
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Combined levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0744 **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						
Amphora		1	0	47	500	0.02327
Centrales - (5-10um)		3	0	140	80	0.01117
Cocconeis		2	0	93	450	0.04188
Entomoneis		0	7	13	1000	0.01303
Naviculales		3	0	140	1400	0.19546
Pennales		0	8	15	300	0.00447
Pennales (small <20um)		6	0	279	251	0.07009
CHLOROPHYCEAE						
Ankistrodesmoideae		45	0	2094	132	0.27643
Chlamydomonads		54	0	2513	250	0.62826
Filamentous Green		0	5	9	386	0.00359
Oocystis		3	0	140	300	0.04188
Scenedesmus		0	4	7	250	0.00186
CRYPTOPHYCEAE						
Cryptomonads		7	0	326	320	0.10424
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	0	11	20	67	0.00137
Planktolyngbya		160	0	7446	3.8	0.02829
Synechococcales small (iauv <20)		41	0	1908	5.25	0.01002
DINOPHYCEAE						
Gymnodiniales (small)		3	0	140	500	0.06981
Peridiniales		8	0	372	5000	1.86150
OTHER PHYTOPLANKTON						
Other small flagellates		15	0	698	80	0.05585
Prasinophytes		3	0	140	100	0.01396

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **30/08/2021**

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)	1.0744						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**9374**	**0.03968**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**20**	**0.00137**
TOTAL ALGAE	**16540**	**3.45644**

+ 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: ***Adam Deliyiannis*** DATE: **30/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA