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. :	7241902 21-55807
LOCALITY :	EM2123012-003
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	17/11/2021
DATE ANALYSED :	23/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed. High levels of low biovolume BGA Synechococcales will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0272 **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		194	0	9443	200	1.88863
Naviculales		1	0	49	1400	0.06815
Nitzschia		1	0	49	400	0.01947
Pennales		4	0	195	300	0.05841
Pennales (small <20um)		5	0	243	251	0.06109
Pleurosigma		0	4	8	2000	0.01558
CHLOROPHYCEAE						
Chlorococcoids (<10um)		28	0	1363	60	0.08178
CYANOPHYCEAE						
Synechococcales small (iauv <20)		2570	0	125097	5.25	0.65676
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09735
Gymnodiniales (small)		2	0	97	500	0.04868
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	195	80	0.01558
Prasinophytes		1	0	49	100	0.00487

TOTAL BGA	**125097**	**0.65676**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**136837**	**3.01633**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **23/11/2021**
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)	1.0272						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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: **23/11/2021**

Biologist **Biologist**

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