

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862



DATE: 20/07/2021



ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA			
LABORATORY NO./BATCH NO.:	7086220 21-35420			
LOCALITY:	EM2113768-013			
SITE:	Bonneys			
SAMPLE:	Surface			
DATE SAMPLED :	13/07/2021			
DATE ANALYSED :	19/07/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A moderately diverse algal community was observed with current levels of BGA sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0018 1 : 1	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	BACILLARIOPHYCEAE							
Centrales			0	2	4	200	0.00080	
Chaetoceros			1	0	50	200	0.00998	
Naviculales			1	0	50	1400	0.06987	
Nitzschia			1	0	50	400	0.01996	
Pennales			1	0	50	300	0.01497	
CHLOROPHYCEAE								
Ankistrodesmoideae			25	0	1248	132	0.16470	
Carteria			1	0	50	300	0.01497	
Chlamydomonads			6		299	250	0.07487	
Chlorococcoids (<10um)			130		6488	60	0.38930	
CRYPTOPHYCEAE	CRYPTOPHYCEAE							
Cryptomonads			7	0	349	320	0.11180	
CYANOPHYCEAE								
Synechococcales small (iauv <20)			4200	0	209623	5.25	1.10052	
DINOPHYCEAE								
Dinoflagellates				1	2	20000	0.03993	
Gymnodiniales	-		1	0	50	2000	0.09982	
Gymnodiniales (small)			1	0	50	500	0.02496	
OTHER PHYTOPLANKTON								
Other small flagellates			15	0	749	80	0.05989	
Prasinophytes			2	0	100	100	0.00998	

ANALYST: Kirsten Mudie (signatory) REVIEWE Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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.:	7086220 21-35420			
LOCALITY:	EM2113768-013			
SITE:	Bonneys			
SAMPLE:	Surface			
DATE SAMPLED :	13/07/2021			
DATE ANALYSED :	19/07/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A moderately diverse algal community was observed with current levels of BGA sufficient to impair water quality.

	Sedgewick-Rafter Vol.(ml) Concentration Magnification	1.0018 1 : 1	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
L	Fields			20	500			

TOTAL BGA	209623	1.10052
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	219212	2.20633

⁺ 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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 20/07/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

^{*} 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.