

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. :	7056264 21-31436
LOCALITY:	EM2111820-002
SITE:	North Jacks Point
SAMPLE:	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse algal community was observed, with the Synechococcales and chlorococcoid greens being most numerous. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0291 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							
Amphora			1	0	49	500	0.02429
Cocconeis			2	0	97	450	0.04373
Naviculales			0	2	4	1400	0.00544
Nitzschia			67	0	3255	400	1.30211
Pennales			2	0	97	300	0.02915
Pennales (small <20um)			10	0	486	251	0.12195
CHLOROPHYCEAE		<u> </u>					
Ankistrodesmoideae			184	0	8940	132	1.18006
Chlamydomonads			10	0	486	250	0.12147
Chlorococcoids (<10um)			140	0	6802	60	0.40812
CRYPTOPHYCEAE							
Cryptomonads			1	0	49	320	0.01555
CYANOPHYCEAE							
Planktolyngbya			45	0	2186	3.8	0.00831
Synechococcales small (iauv <20)			46080	0	2238849	5.25	11.75396
DINOPHYCEAE							
Dinoflagellates			1	0	49	20000	0.97172
Gymnodiniales (small)			10	0	486	500	0.24293
EUGLENOPHYCEAE				•	•		
Euglena			3	0	146	7000	1.02031
OTHER PHYTOPLANKTON		- 1					
Other small flagellates			9	0	437	80	0.03498
Raphidophytes			2	0	97	7000	0.68021

ANALYST: Karen Simonsen (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 25/06/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(CCIIS/IIIL)	(um3)	(IIIII3/L)

5 11.76227	2241035	TOTAL BGA
0.00000	0	TOTAL TOXIGENIC BGA
0.00000	0	TOTAL POTENTIALLY TOXIC BGA
5 17.96429	2262515	TOTAL ALGAE

<sup>+</sup> 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: Karen Simonsen (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 25/06/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

<sup>\*</sup> 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.