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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956315 21-18638
LOCALITY :	EM2106129-012
SITE :	North Jacks Pt
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed, with low-biovolume BGA and small chlorococcoids greens being most numerous. Current BGA levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0169 **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		3	0	148	500	0.07375
Naviculales		2	0	98	1400	0.13767
Nitzschia		226	0	11112	400	4.44488
Pennales		3	0	148	300	0.04425
Pleurosigma		0	2	4	2000	0.00787
CHLOROPHYCEAE						
Ankistrodesmoideae		268	0	13177	132	1.73940
Chlorococcoids		15920	0	782771	500	391.38558
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01573
CYANOPHYCEAE						
Synechococcales small (iauv <20)		54400	0	2674796	5.25	14.04268
DINOPHYCEAE						
Dinoflagellates		8	0	393	20000	7.86705
Gymnodiniales		2	0	98	2000	0.19668

TOTAL BGA	**2674796**	**14.04268**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3482794**	**419.95555**

+ 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: ***Kirsten Mudie (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **15/04/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA