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. :	7086219 21-35420
LOCALITY :	EM2113768-012
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	13/07/2021
DATE ANALYSED :	19/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current low levels of algae are insufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0138 **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						
Licmophora		1	0	49	850	0.04192
Naviculales		1	0	49	1400	0.06905
Nitzschia		1	0	49	400	0.01973
Pennales		4	0	197	300	0.05918
Pennales (small <20um)		3	0	148	251	0.03714
CHLOROPHYCEAE						
Chlorococcoids (<10um)		2	0	99	60	0.00592
Staurastrum		0	1	2	2000	0.00395
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01578
CYANOPHYCEAE						
Planktolyngbya		11	0	543	3.8	0.00206
Pseudanabaena		0	13	26	12.5	0.00032
Synechococcales small (iauv <20)		9	0	444	5.25	0.00233
DINOPHYCEAE						
Gymnodiniales		3	0	148	2000	0.29592
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00395

TOTAL BGA	**1013**	**0.00471**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1852**	**0.55724**

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

METHOD NO.: MB010/MW024VCA

ALS Water
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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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **20/07/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA