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. :	187815 22-45580
LOCALITY :	EM2209350-011
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	18/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0327 **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		1	0	48	500	0.02421
Centrales - (5-10um)		1	0	48	80	0.00387
Naviculales		1	0	48	1400	0.06778
Pennales		4	0	194	300	0.05810
CHLOROPHYCEAE						
Chlorococcoids (<10um)		5	0	242	60	0.01453
Monoraphidium (small)		19	0	920	16	0.01472
Oocystis		2	0	97	300	0.02905
Planctonema		10	0	484	800	0.38733
CRYPTOPHYCEAE						
Cryptomonads		20	0	968	320	0.30987
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	15	29	60.8	0.00177
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	48	80	0.00387

TOTAL BGA	**29**	**0.00177**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**29**	**0.00177**
TOTAL ALGAE	**3126**	**0.91510**

+ 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: **24/05/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA