ALS Water
22 Dalmore Drive Scoresby 3179
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7007885 21-25384
LOCALITY :	EM2108900_016
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	20/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Low levels of algae were observed, insufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0291 **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						
Chaetoceros		0	2	4	200	0.00078
Naviculales		1	0	49	1400	0.06802
Nitzschia		0	2	4	400	0.00155
CHLOROPHYCEAE						
Chlorococcoids (<10um)		138	0	6705	60	0.40229
Staurastrum		0	1	2	2000	0.00389
CYANOPHYCEAE						
Planktolyngbya		0	26	51	3.8	0.00019
Pseudanabaena		6	0	292	12.5	0.00364
Synechococcales small (iauv <20)		22	0	1069	5.25	0.00561
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	146	80	0.01166

TOTAL BGA	**1412**	**0.00945**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**8322**	**0.49764**

+ 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)* **Biologist** REVIEWED: *Adam Deliyiannis* **Biologist** DATE: **20/05/2021**

METHOD NO.: MB010/MW024VCA