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. :	7484478 22-53363
LOCALITY :	EM2212384-003
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	6/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current high levels of algae are sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.024 **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		130	0	6348	200	1.26953
Naviculales		5	0	244	1400	0.34180
Nitzschia		38	0	1855	400	0.74219
Pennales		1	0	49	300	0.01465
Pennales (small <20um)		1	0	49	251	0.01226
CHLOROPHYCEAE						
Ankistrodesmoideae		3920	0	191406	132	25.26563
Chlamydomonads		1	0	49	250	0.01221
Chlorococcoids (<10um)		5320	0	259766	60	15.58594
Monoraphidium (small)		380	0	18555	16	0.29688
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01563
CYANOPHYCEAE						
Synechococcales small (iauv <20)		22400	0	1093750	5.25	5.74219
DINOPHYCEAE						
Dinoflagellates		0	5	10	20000	0.19531
Gymnodiniales		5	0	244	2000	0.48828
Gymnodiniales (small)		18	0	879	500	0.43945
EUGLENOPHYCEAE						
Euglena		1	0	49	7000	0.34180
OTHER PHYTOPLANKTON						
Other small flagellates		120	0	5859	80	0.46875
Prasinophytes		80	0	3906	100	0.39063

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Natalie Alabaster*** DATE: **07/07/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.024						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1093750**		**5.74219**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**1583067**		**51.62310**

+ 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: *Natalie Alabaster* **Biologist**

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA