

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	239358 22-48116
LOCALITY :	EM2210355-007
SITE :	South Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	2/06/2022
DATE ANALYSED :	12/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0327	Toxicogenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

### BACILLARIOPHYCEAE

Centrales		1	0	48	200	0.00968
Nitzschia		112	0	5423	400	2.16907
Pennales		3	0	145	300	0.04358

### CHLOROPHYCEAE

Ankistrodesmoideae		29	0	1404	132	0.18534
Chlorococcoids (<10um)		1240	0	60037	60	3.60221
Monoraphidium (small)		5	0	242	16	0.00387

### CRYPTOPHYCEAE

Cryptomonads		2	0	97	320	0.03099
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### CYANOPHYCEAE

Planktolyngbya		5	0	242	3.8	0.00092
Synechococcales small (iauv <20)		8880	0	429941	5.25	2.25719

### DINOPHYCEAE

Gymnodiniales		4	0	194	2000	0.38733
Gymnodiniales (small)		3	0	145	500	0.07263
Peridinales		1	0	48	5000	0.24208

### OTHER PHYTOPLANKTON

Other small flagellates		2	0	97	80	0.00775
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TOTAL BGA	430183	2.25811
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	498063	9.01264

ANALYST: Adam Deliyannis (signatory) REVIEWED: Louise Ungemach (signatory)  
Biologist Biologist

DATE: 15/06/2022

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+ 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  $\beta$ -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: **Louise Ungemach (signatory)**  
Biologist Biologist

DATE: **15/06/2022**