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. :	7609395 22-60564
LOCALITY :	EM2215131-005
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	8/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed, but current combined levels are unlikely to impact water quality.-

Sedgewick-Rafter Vol.(ml) 1.0284 **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		0	4	8	500	0.00389
Centrales		1	0	49	200	0.00972
Centrales - (5-10um)		1	0	49	80	0.00389
Chaetoceros		93	0	4522	200	0.90432
Cocconeis		3	0	146	450	0.06564
Diploneis		0	1	2	500	0.00097
Entomoneis		1	0	49	1000	0.04862
Gyrosigma		0	6	12	1400	0.01634
Naviculales		8	0	389	1400	0.54454
Nitzschia		29	0	1410	400	0.56398
Nitzschia closterium		1	0	49	40	0.00194
Pennales		1	0	49	300	0.01459
Pennales (small <20um)		45	0	2188	251	0.54915
CHLOROPHYCEAE						
Chlamydomonads		15	0	729	250	0.18232
Chlorococcoids (<10um)		21	0	1021	60	0.06126
Monoraphidium		5	0	243	900	0.21879
Oocystis		2	0	97	300	0.02917
CRYPTOPHYCEAE						
Cryptomonads		3	0	146	320	0.04667
CYANOPHYCEAE						
Planktolyngbya		9	0	438	3.8	0.00166
Synechococcales small (iauv <20)		10	0	486	5.25	0.00255
DINOPHYCEAE						
Gymnodiniales		0	2	4	2000	0.00778

ANALYST: *Karen Simonsen (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **12/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Gymnodiniales (small)		1	0	49	500	0.02431
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00389
Raphidophytes		3	0	146	7000	1.02100

TOTAL BGA	**924**	**0.00422**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**12330**	**4.32700**

+ 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.***

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