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. :	7428775 22-19601
LOCALITY :	EM2207234-007
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	20/04/2022
DATE ANALYSED :	26/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **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						
Centrales		16	0	776	200	0.15517
Entomoneis		10	0	485	1000	0.48492
Naviculales		4	0	194	1400	0.27155
Nitzschia		4	0	194	400	0.07759
Pennales		96	0	4655	300	1.39657
Pennales (small <20um)		112	0	5431	251	1.36320
Pleurosigma		1	0	48	2000	0.09698
CHLOROPHYCEAE						
Chlorococcoids (<10um)		276	0	13384	60	0.80303
CRYPTOPHYCEAE						
Cryptomonads		16	0	776	320	0.24828
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	47	91	60.8	0.00554
Pseudanabaena		0	49	95	12.5	0.00119
Synechococcales small (iauv <20)		236	0	11444	5.25	0.06008
DINOPHYCEAE						
Gymnodiniales		0	1	2	2000	0.00388
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	194	80	0.01552
Prasinophytes		48	0	2328	100	0.23276

TOTAL BGA	**11630**	**0.06681**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**91**	**0.00554**
TOTAL ALGAE	**40097**	**5.21626**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **26/04/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **26/04/2022**

Biologist **Biologist**

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