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. :	6796591 20-56146
LOCALITY :	EM2021368_016
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	1/12/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Small synechococcales dominated the sample. Current levels are likely 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						
Centrales		1	0	49	200	0.00977
Chaetoceros		18	0	879	200	0.17578
Gyrosigma		2	0	98	1400	0.13672
Naviculales		16	0	781	1400	1.09375
Nitzschia		9	0	439	400	0.17578
Pennales		8	0	391	300	0.11719
Pennales (small <20um)		104	0	5078	251	1.27461
Pleurosigma		1	0	49	2000	0.09766
CHLOROPHYCEAE						
Chlorococcoids (<10um)		21	0	1025	60	0.06152
CYANOPHYCEAE						
Planktolyngbya		16	0	781	3.8	0.00297
Pseudanabaena		0	12	23	12.5	0.00029
Synechococcales small (iauv <20)		1960	0	95703	5.25	0.50244
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09766
Gymnodiniales (small)		1	0	49	500	0.02441
OTHER PHYTOPLANKTON						
Other small flagellates		16	0	781	80	0.06250

TOTAL BGA	**96507**	**0.50570**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**106175**	**3.83305**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **04/12/2020**

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: *Adam Deliyiannis* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

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