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. :	6781616 20-54272
LOCALITY :	EM2020558_007
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. High levels of small Synechococcales were present. Current levels may 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		32	0	1563	200	0.31250
Naviculales		1	0	49	1400	0.06836
Nitzschia		2	0	98	400	0.03906
Pennales		1	0	49	300	0.01465
Pennales (small <20um)		13	0	635	251	0.15933
CHLOROPHYCEAE						
Ankistrodesmoideae		12	0	586	132	0.07734
Chlamydomonads		1	0	49	250	0.01221
Chlorococcoids (<10um)		77	0	3760	60	0.22559
CHRYSOPHYCEAE						
Other Chrysophyceae		6	0	293	350	0.10254
CYANOPHYCEAE						
Planktolyngbya		31	0	1514	3.8	0.00575
Synechococcales small (iauv <20)		2280	0	111328	5.25	0.58447
DINOPHYCEAE						
Gymnodiniales (small)		3	0	146	500	0.07324
OTHER PHYTOPLANKTON						
Other small flagellates		16	0	781	80	0.06250
Prasinophytes		2	0	98	100	0.00977

TOTAL BGA	**112842**	**0.59022**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**120949**	**1.74730**

ANALYST: *Adam Deliyiannis* **Biologist**
REVIEWED: *Kirsten Mudie (signatory)* **Biologist**
DATE: **24/11/2020**

METHOD NO.: MB010/MW024VCA

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. :	6781616 20-54272
LOCALITY :	EM2020558_007
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. High levels of small Synechococcales were present. Current levels may impair water quality.

Sedgewick-Rafter Vol.(ml)	1.024	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**	**Individual Algal Unit Volume (um3)**	**Total Biovolume (mm3/L)**
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**

DATE: **24/11/2020**

METHOD NO.: MB010/MW024VCA