22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681721 20-40763
LOCALITY :	EM2014780_017
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	28/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA and greens most numerous. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1.0138 **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	0.00986
Chaetoceros		3	0	148	200	0.02959
Naviculales		3	0	148	1400	0.20714
Nitzschia		1	0	49	400	0.01973
Pennales (small <20um)		2	0	99	251	0.02476
CHLOROPHYCEAE						
Ankistrodesmoideae		40	0	1973	132	0.26041
Chlamydomonads		20	0	986	250	0.24660
Chlorococcoids (<10um)		1840	0	90748	60	5.44486
CHRYSOPHYCEAE						
Other Chrysophyceae		12	0	592	350	0.20714
CRYPTOPHYCEAE						
Cryptomonads		32	0	1578	320	0.50503
CYANOPHYCEAE						
Planktolyngbya		136	0	6707	3.8	0.02549
Pseudanabaena		0	36	71	12.5	0.00089
Synechococcales small (iauv <20)		1380	0	68061	5.25	0.35732
DINOPHYCEAE						
Gymnodiniales		0	6	12	2000	0.02367
Gymnodiniales (small)		20	0	986	500	0.49319
EUGLENOPHYCEAE						
Eutreptia		0	2	4	1000	0.00395
OTHER PHYTOPLANKTON						
Other small flagellates		68	0	3354	80	0.26830
Prasinophytes		88	0	4340	100	0.43401

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **31/08/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0138						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**74839**		**0.38370**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**179905**		**8.56194**

+ 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*** DATE: **31/08/2020**
Biologist **Biologist**

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