

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



## **ALGAL REPORT**

CLIENT:	ALS
LABORATORY NO./BATCH NO.:	6622171 20-32670
LOCALITY:	EM2011705-003
SITE:	DS Tauwitchere
SAMPLE:	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	10/07/2020
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse and abundant algal community was observed. Excessive levels of cyanobacteria were present, impairing water quality and posing a health concern. (eg skin/gastric irritations)

Sedgewick-Rafter Vol.(ml) Concentration	1.0105 1 : 1	Toxigenic (T) or Potentially			Total Cell Count
Magnification		toxic (P)	- 200x	- 100x	(cells/mL)
Fields		*	20	500	. ,

BACILLARIOPHYCEAE			
Anaulus	1	0	49
Cymbella	1	0	49
Fragilariaceae	2	0	99
Nitzschia	3	0	148
Pennales (small <20um)	7	0	346
CHLOROPHYCEAE			
Ankistrodesmus	11	0	544
Chlamydomonads	60	0	2969
Chlorococcoids	24	0	1188
Chodatella	4	0	198
Closterium	0	1	2
Crucigenia	107	0	5294
Didymocystis	14	0	693
Elakatothrix	5	0	247
Eremosphaera	4	0	198
Hyaloraphidium	147	0	7274
Monoraphidium	3	0	148
Oocystis	144	0	7125
Pediastrum	15	0	742
Planctonema	177	0	8758
Scenedesmus	50	0	2474
Selenastrum	5	0	247
Staurastrum	1	0	49
Tetraedron	2	0	99

ANALYST: Karen Simonsen (signatory) REVIEWED: Kirsten Mudie (signatory) DATE: 10/07/2020
Biologist Biologist

METHOD NO.: MB010 Page 1 of 2



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SAMPLE:	Surface	Surface			
DATE SAMPLED :	7/07/2020	7/07/2020			
DATE ANALYSED :	10/07/2020	10/07/2020			
SAMPLED BY:	Sample analysed a	Sample analysed as received			

COMMENTS: + A diverse and abundant algal community was of health concern. (eg skin/gastric irritations)	bserved. Excessive	e levels of cyanobact	teria were present, impa	iring water quality and posing a
Sedgewick-Rafter Vol.(ml) 1.0105 Concentration 1:1 Magnification Fields	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)
Tetrastrum		28	0	1385
CRYPTOPHYCEAE				
Cryptomonads		24	0	1188
CYANOPHYCEAE				
Aphanizomenonaceae family - straight	Р	14	0	693
Cuspidothrix issatschenkoi		116	0	5740
Leptolyngbya		132	0	6531
Limnolyngbya (Planktolyngbya circumcreta)		3780	0	187036
Planktolyngbya		5600	0	277091
Pseudanabaena		103	0	5096
Synechococcales small (iauv <20)		49600	0	2454231
DINOPHYCEAE			<u> </u>	
Gymnodiniales (small)		0	1	2
Peridiniales		0	1	2
EUGLENOPHYCEAE			<u> </u>	
Trachelomonas		2	0	99
OTHER PHYTOPLANKTON				
Other small flagellates		1	0	49
7	TOTAL BGA			2936418
TOTAL TOXIGENIC BGA		0		
TOTAL POTENTIALLY TOXIC BGA		693		
тот	AL ALGAE			2978083

<sup>+</sup> The comments are discretionary and are for the purpose of helping to understand WQ implications. The comments are not accredited by NATA.

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.

REVIEWED: Kirsten Mudie (signatory) ANALYST: Karen Simonsen (signatory) DATE: 10/07/2020 **Biologist Biologist** 

METHOD NO.: MB010 Page 2 of 2

<sup>\*</sup> 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.