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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657120 20-37229
LOCALITY :	EM2013637_002
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Current excessive levels of small BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0268 **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						
Navicula		1	0	49	1400	0.06817
Nitzschia		24	0	1169	400	0.46747
Pennales		2	0	97	300	0.02922
Pennales (small <20um)		7	0	341	251	0.08556
CHLOROPHYCEAE						
Ankistrodesmoideae		295	0	14365	132	1.89618
Chlorococcoids (<10um)		6280	0	305804	60	18.34827
CRYPTOPHYCEAE						
Cryptomonads		12	0	584	320	0.18699
CYANOPHYCEAE						
Planktolyngbya		29	0	1412	3.8	0.00537
Pseudanabaena		0	4	8	12.5	0.00010
Synechococcales small (iauv <20)		11200	0	545384	5.25	2.86326
DINOPHYCEAE						
Gymnodiniales		7	0	341	2000	0.68173
Gymnodiniales (small)		10	0	487	500	0.24347
Peridiniales		2	0	97	5000	0.48695
EUGLENOPHYCEAE						
Euglena		0	1	2	7000	0.01363
OTHER PHYTOPLANKTON						
Other small flagellates		250	0	12174	80	0.97390
Prasinophytes		14	0	682	100	0.06817

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **11/08/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657120 20-37229
LOCALITY :	EM2013637_002
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Current excessive levels of small BGA and greens will impair water quality.

		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0268						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**546804**	**2.86873**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**882996**	**26.41845**

+ 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: **11/08/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV