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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657132 20-37229
LOCALITY :	EM2013637-014
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0333 **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		4	0	194	200	0.03871
Nitzschia		0	1	2	400	0.00077
Pennales		0	3	6	300	0.00174
CHLOROPHYCEAE						
Chlamydomonads		9	0	435	250	0.10887
Chlorococcoids (<10um)		51	0	2468	60	0.14807
Filamentous Green		0	27	52	386	0.02017
Tetraedron		1	0	48	150	0.00726
CHRYSOPHYCEAE						
Other Chrysophyceae		6	0	290	350	0.10162
CRYPTOPHYCEAE						
Cryptomonads		40	0	1936	320	0.61937
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	14	27	60.8	0.00165
Planktolyngbya		17	0	823	3.8	0.00313
Synechococcales small (iauv <20)		38	0	1839	5.25	0.00965
DINOPHYCEAE						
Gymnodiniales		0	2	4	2000	0.00774
Gymnodiniales (small)		1	0	48	500	0.02419
Peridiniales		0	1	2	5000	0.00968
EUGLENOPHYCEAE						
Eutreptia		1	0	48	1000	0.04839
OTHER PHYTOPLANKTON						
Other small flagellates		33	0	1597	80	0.12775
Prasinophytes		73	0	3532	100	0.35324

ANALYST: ***Adam Deliyiannis*** REVIEWED: ***Kirsten Mudie (signatory)*** 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. :	6657132 20-37229
LOCALITY :	EM2013637-014
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to impact on 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)	1.0333						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**2689**		**0.01443**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**27**		**0.00165**
TOTAL ALGAE					**13351**		**1.63201**

+ 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: **11/08/2020**

METHOD NO.: MB010/MW024CV