22 Dalmore Drive Scoresby 3179
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ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	7125210 21-40387
LOCALITY :	EM2116293-001
SITE :	S1
SAMPLE :	Surface
DATE SAMPLED :	17/08/2021
DATE ANALYSED :	20/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A limited algal community was recorded, with current combined levels insufficient to influence water quality. A large amount of fine sediment was also observed.

Sedgewick-Rafter Vol.(ml) 1.0145 **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						
Aulacoseira		0	2	4	2860	0.01128
Centrales		2	0	99	200	0.01971
CHLOROPHYCEAE						
Ankyra		1	0	49	40	0.00197
Botryococcus		50	0	2464	98	0.24150
Chlorococcoids		6	0	296	500	0.14786
Monoraphidium		5	0	246	900	0.22178
Oocystis		22	0	1084	300	0.32528
Pediastrum		0	16	32	60	0.00189
Scenedesmus		10	0	493	250	0.12321
CYANOPHYCEAE						
Planktolyngbya		7	0	345	3.8	0.00131

TOTAL BGA	**345**	**0.00131**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**5112**	**1.09580**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **20/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA