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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681720 20-40763
LOCALITY :	EM2014780-016
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	28/08/2020
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0744 **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		27	0	1257	200	0.25130
Entomoneis		0	3	6	1000	0.00558
Nitzschia		1	0	47	400	0.01862
Pennales		0	2	4	300	0.00112
Pennales (small <20um)		1	0	47	251	0.01168
CHLOROPHYCEAE						
Ankistrodesmoideae		1	0	47	132	0.00614
Chlamydomonads		2	0	93	250	0.02327
Chlorococcoids (<10um)		29	0	1350	60	0.08098
Selenastrum		4	0	186	250	0.04654
CRYPTOPHYCEAE						
Cryptomonads		15	0	698	320	0.22338
CYANOPHYCEAE						
Planktolyngbya		23	0	1070	3.8	0.00407
Synechococcales small (iauv <20)		390	0	18150	5.25	0.09529
DINOPHYCEAE						
Gymnodiniales (small)		1	0	47	500	0.02327
EUGLENOPHYCEAE						
Euglena		0	1	2	7000	0.01303
Eutreptia		2	0	93	1000	0.09308
OTHER PHYTOPLANKTON						
Other small flagellates		27	0	1257	80	0.10052
Prasinophytes		3	0	140	100	0.01396

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **28/08/2020**

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)	1.0744						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**19220**		**0.09935**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**24494**		**1.01182**

+ 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**

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