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

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6796577 20-56146
LOCALITY :	EM20123686_002
SITE :	North Jacks
SAMPLE :	Surface
DATE SAMPLED :	30/11/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of small synechococcales dominated the sample. Current levels will impair 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						
Amphora		0	1	2	500	0.00097
Centrales		1	0	48	200	0.00968
Nitzschia		7	0	339	400	0.13549
Pennales		0	2	4	300	0.00116
CHLOROPHYCEAE						
Ankistrodesmoideae		2640	0	127746	132	16.86248
Chlamydomonads		2	0	97	250	0.02419
Chlorococcoids (<10um)		1260	0	60970	60	3.65818
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01548
CYANOPHYCEAE						
Pseudanabaena		0	13	25	12.5	0.00031
Synechococcales small (iauv <20)		25920	0	1254234	5.25	6.58473
DINOPHYCEAE						
Gymnodiniales		5	0	242	2000	0.48389
Gymnodiniales (small)		5	0	242	500	0.12097
Peridiniales		1	0	48	5000	0.24194
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	339	80	0.02710

TOTAL BGA	**1254259**	**6.58504**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1444384**	**28.16658**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **04/12/2020**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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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