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. :	6750293 20-50047
LOCALITY :	EM2018692_002
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA and greens dominated the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) 1.0018 **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		1	0	50	500	0.02496
Centrales		2	0	100	200	0.01996
Naviculales		1	0	50	1400	0.06987
Nitzschia		10	0	499	400	0.19964
Pennales (small <20um)		1	0	50	251	0.01253
Pleurosigma		0	1	2	2000	0.00399
CHLOROPHYCEAE						
Ankistrodesmoideae		720	0	35935	132	4.74346
Chlamydomonads		4	0	200	250	0.04991
Chlorococcoids (<10um)		6840	0	341386	60	20.48313
CRYPTOPHYCEAE						
Cryptomonads		5	0	250	320	0.07986
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	48	96	17.5	0.00168
Planktolyngbya		20	0	998	3.8	0.00379
Pseudanabaena		0	33	66	12.5	0.00082
Spirulina		0	163	325	5.73	0.00186
Synechococcales small (iauv <20)		30720	0	1533240	5.25	8.04951
DINOPHYCEAE						
Dinoflagellates		1	0	50	20000	0.99820
Gymnodiniales		3	0	150	2000	0.29946
Gymnodiniales (small)		27	0	1348	500	0.67379
Peridiniales		1	0	50	5000	0.24955
OTHER PHYTOPLANKTON						
Other small flagellates		1860	0	92833	80	7.42663

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **27/10/2020**

Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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. :	6750293 20-50047
LOCALITY :	EM2018692_002
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA and greens dominated the sample. Water quality will be impaired.

		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0018						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1534725**		**8.05767**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**96**		**0.00168**
TOTAL ALGAE					**2007678**		**43.39262**

+ 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: **27/10/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV