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. :	6750306 20-50047
LOCALITY :	EM2018692_015
SITE :	Villa de Yumpa
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) 1.0744 **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						
Amphora		2	0	93	500	0.04654
Centrales		4	0	186	200	0.03723
Cocconeis		1	0	47	450	0.02094
Naviculales		2	0	93	1400	0.13031
Nitzschia		1	0	47	400	0.01862
Pennales		1	0	47	300	0.01396
Pennales (small <20um)		8	0	372	251	0.09345
Pleurosigma		1	0	47	2000	0.09308
Tryblionella		0	1	2	1150	0.00214
CHLOROPHYCEAE						
Ankistrodesmoideae		1140	0	53053	132	7.00298
Chlamydomonads		5	0	233	250	0.05817
Chlorococcoids (<10um)		4920	0	228965	60	13.73790
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	47	350	0.01629
CRYPTOPHYCEAE						
Cryptomonads		13	0	605	320	0.19360
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	45	84	17.5	0.00147
Planktolyngbya		70	0	3258	3.8	0.01238
Pseudanabaena		4	0	186	12.5	0.00233
Synechococcales small (iauv <20)		35820	0	1666977	5.25	8.75163
DINOPHYCEAE						
Dinoflagellates		0	3	6	20000	0.11169
Gymnodiniales		2	0	93	2000	0.18615

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

METHOD NO.: MB010/MW024CV

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Gymnodiniales (small)		17	0	791	500	0.39557
Peridiniales		2	0	93	5000	0.46538
OTHER PHYTOPLANKTON						
Other small flagellates		1100	0	51191	80	4.09531

TOTAL BGA	**1670505**	**8.76780**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**84**	**0.00147**
TOTAL ALGAE	**2006516**	**35.48709**

+ 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**
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