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. :	7394982 22-15545
LOCALITY :	EM2204816-010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Current algal levels are sufficient to impair water quality (eg: discolouration).

Sedgewick-Rafter Vol.(ml) 1.027 **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						
Centrales		2	0	97	200	0.01947
Nitzschia		230	0	11198	400	4.47907
Pennales		3	0	146	300	0.04382
Pennales (small <20um)		44	0	2142	251	0.53768
CHLOROPHYCEAE						
Ankistrodesmoideae		1080	0	52580	132	6.94060
Chlorococcoids (<10um)		4620	0	224927	60	13.49562
Oocystis		6	0	292	300	0.08763
CRYPTOPHYCEAE						
Cryptomonads		3	0	146	320	0.04674
CYANOPHYCEAE						
Synechococcales small (iauv <20)		18200	0	886076	5.25	4.65190
DINOPHYCEAE						
Gymnodiniales		9	0	438	2000	0.87634
Gymnodiniales (small)		9	0	438	500	0.21908
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00389

TOTAL BGA	**886076**	**4.65190**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1178529**	**31.40185**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **25/03/2022**
Biologist **Biologist**

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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **25/03/2022**
Biologist **Biologist**

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