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. :	7366804 22-11365
LOCALITY :	EM2203091-010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	23/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive algal levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **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	0.01940
Entomoneis		0	1	2	1000	0.00194
Nitzschia		100	0	4849	400	1.93968
Pennales		3	0	145	300	0.04364
Pennales (small <20um)		190	0	9213	251	2.31258
CHLOROPHYCEAE						
Ankistrodesmoideae		770	0	37339	132	4.92872
Chlamydomonads		1	0	48	250	0.01212
Chlorococcoids (<10um)		3780	0	183299	60	10.99796
Oocystis		4	0	194	300	0.05819
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01552
CYANOPHYCEAE						
Synechococcales small (iauv <20)		17780	0	862186	5.25	4.52648
DINOPHYCEAE						
Gymnodiniales		4	0	194	2000	0.38794
Gymnodiniales (small)		1	0	48	500	0.02425
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	194	80	0.01552

TOTAL BGA	**862186**	**4.52648**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1097856**	**25.28392**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **28/02/2022**
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: **28/02/2022**
Biologist **Biologist**

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