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. :	7684096 22-64966
LOCALITY :	EM2216763-004
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	31/08/2022
DATE ANALYSED :	6/09/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algae was observed. Levels may impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0257 **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		1	0	49	200	0.00975
Chaetoceros		0	2	4	200	0.00078
Pennales		2	0	97	300	0.02925
Pennales (small <20um)		2	0	97	251	0.02447
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01219
Chlorococcoids (<10um)		980	0	47772	60	2.86634
Didymocystis		4	0	195	41	0.00799
Filamentous Green		0	2	4	386	0.00151
Monoraphidium (small)		38	0	1852	16	0.02964
CRYPTOPHYCEAE						
Chroomonas		38	0	1852	60	0.11114
CYANOPHYCEAE						
Synechococcales small (iauv <20)		1560	0	76046	5.25	0.39924
DINOPHYCEAE						
Gymnodiniales		0	3	6	2000	0.01170

TOTAL BGA	**76046**	**0.39924**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**128023**	**3.50399**

ANALYST: *Lauren Minett (signatory)* **Biologist** REVIEWED: *Louise Ungemach (signatory)* **Biologist** DATE: **06/09/2022**

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: *Lauren Minett (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **06/09/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA