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. :	7428778 22-19601
LOCALITY :	EM2207234-010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	26/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of low biovolume BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0235 **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						
Nitzschia		10	0	489	400	0.19541
Pennales		4	0	195	300	0.05862
Pennales (small <20um)		24	0	1172	251	0.29428
CHLOROPHYCEAE						
Ankistrodesmoideae		310	0	15144	132	1.99902
Chlorococcoids (<10um)		3340	0	163166	60	9.78994
Oocystis		14	0	684	300	0.20518
CRYPTOPHYCEAE						
Cryptomonads		5	0	244	320	0.07816
CYANOPHYCEAE						
Pseudanabaena		0	15	29	12.5	0.00037
Synechococcales small (iauv <20)		6840	0	334148	5.25	1.75427
DINOPHYCEAE						
Gymnodiniales		2	0	98	2000	0.19541
Gymnodiniales (small)		0	1	2	500	0.00098
OTHER PHYTOPLANKTON						
Other small flagellates		16	0	782	80	0.06253

TOTAL BGA	**334177**	**1.75464**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**516153**	**14.63417**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **26/04/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0235						
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: **26/04/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA