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. :	7171296 21-46438
LOCALITY :	EM2119079-010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0578 **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		0	1	2	500	0.00095
Nitzschia		1	0	47	400	0.01891
Pennales		5	0	236	300	0.07090
Pennales (small <20um)		2	0	95	251	0.02373
CHLOROPHYCEAE						
Ankistrodesmoideae		118	0	5578	132	0.73625
Chlorococcoids (<10um)		57	0	2694	60	0.16166
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	47	350	0.01654
CYANOPHYCEAE						
Synechococcales small (iauv <20)		19600	0	926451	5.25	4.86387
DINOPHYCEAE						
Dinoflagellate cysts		0	1	2	40000	0.07563
Gymnodiniales		0	1	2	2000	0.00378
Gymnodiniales (small)		2	0	95	500	0.04727
OTHER PHYTOPLANKTON						
Other small flagellates		19	0	898	80	0.07185
Prasinophytes		1	0	47	100	0.00473
Raphidophytes		4	0	189	7000	1.32350

TOTAL BGA	**926451**	**4.86387**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**936383**	**7.41955**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **29/09/2021**

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: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **29/09/2021**

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