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. :	7609355 22-60563
LOCALITY :	EM2215130-004
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0266 **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		1	0	49	500	0.02435
Chaetoceros		7	0	341	200	0.06819
Naviculales		2	0	97	1400	0.13637
Nitzschia		2	0	97	400	0.03896
Pennales		1	0	49	300	0.01461
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1140	0	55523	60	3.33139
Monoraphidium (small)		93	0	4530	16	0.07247
CYANOPHYCEAE						
Planktolyngbya		40	0	1948	3.8	0.00740
Synechococcales small (iauv <20)		3500	0	170466	5.25	0.89494
DINOPHYCEAE						
Gymnodiniales		8	0	390	2000	0.77927
Gymnodiniales (small)		6	0	292	500	0.14611
OTHER PHYTOPLANKTON						
Other small flagellates		22	0	1071	80	0.08572

TOTAL BGA	**172414**	**0.90235**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**234853**	**5.59980**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA