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. :	7791228 22-70934
LOCALITY :	EM2218950-007
SITE :	Tilley D/S Nth O/L
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	4/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse community of algal taxa were observed. Current levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 **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	0.00971
Naviculales		0	12	23	1400	0.03261
Pennales (small <20um)		1	0	49	251	0.01218
CHLOROPHYCEAE						
Chlorococcoids (<10um)		13	0	631	60	0.03785
Monoraphidium (small)		20	0	971	16	0.01553
CYANOPHYCEAE						
Synechococcales small (iauv <20)		11	0	534	5.25	0.00280
DINOPHYCEAE						
Peridiniales		2	0	97	5000	0.48530
EUGLENOPHYCEAE						
Trachelomonas		0	1	2	3000	0.00582
OTHER PHYTOPLANKTON						
Other small flagellates		13	0	631	80	0.05047

TOTAL BGA	**534**	**0.00280**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2987**	**0.65227**

+ 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: *Louise Ungemach (signatory)* DATE: **05/10/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA