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. :	7684098 22-69466
LOCALITY :	EM2216763-006
SITE :	North Jacks Point
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) 1.0242 **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		3	0	146	200	0.02929
Pennales		6	0	293	300	0.08787
Pennales (small <20um)		2	0	98	251	0.02451
CHLOROPHYCEAE						
Chlorococcoids		830	0	40519	500	20.25971
Monoraphidium (small)		84	0	4101	16	0.06561
Monoraphidium (large)		0	1	2	400	0.00078
CRYPTOPHYCEAE						
Chroomonas		28	0	1367	60	0.08202
CYANOPHYCEAE						
Synechococcales small (iauv <20)		2240	0	109354	5.25	0.57411
DINOPHYCEAE						
Gymnodiniales		0	18	35	2000	0.07030
Gymnodiniales (small)		1	0	49	500	0.02441
EUGLENOPHYCEAE						
Euglena		0	1	2	7000	0.01367
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	98	80	0.00781

TOTAL BGA	**109354**	**0.57411**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**156064**	**21.24009**

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

METHOD NO.: MB010/MW024VCA

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. :	7684098 22-69466
LOCALITY :	EM2216763-006
SITE :	North Jacks Point
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)	1.0242	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**	**Individual Algal Unit Volume (um3)**	**Total Biovolume (mm3/L)**
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