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. :	7366798 22-11365
LOCALITY :	EM2203091-004
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	22/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0407 **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 - (5-10um)		147	0	7063	80	0.56500
Pennales		8	0	384	300	0.11531
Pennales (small <20um)		4	0	192	251	0.04824
CHLOROPHYCEAE						
Ankistrodesmoideae		3	0	144	132	0.01903
Chlorococcoids (<10um)		33	0	1585	60	0.09513
Closterium		0	1	2	4130	0.00794
Crucigenia		8	0	384	30	0.01153
Didymocystis		6	0	288	41	0.01182
Lagerheimia		2	0	96	500	0.04804
Monoraphidium (small)		16	0	769	16	0.01230
Monoraphidium (large)		1	0	48	400	0.01922
Oocystis		4	0	192	300	0.05765
Planctonema		37	0	1778	800	1.42212
Tetrastrum		16	0	769	40	0.03075
CRYPTOPHYCEAE						
Cryptomonads		3	0	144	320	0.04612
CYANOPHYCEAE						
Limnolyngbya (Planktolyngbya circumcreta)		10	0	480	4.9	0.00235
Planktolyngbya		100	0	4804	3.8	0.01826
Pseudanabaena		43	0	2066	12.5	0.02582
Synechococcales small (iauv <20)		108	0	5189	5.25	0.02724
DINOPHYCEAE						
Gymnodiniales (small)		1	0	48	500	0.02402
OTHER PHYTOPLANKTON						

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **01/03/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Other small flagellates		5	0	240	80	0.01922
Raphidophytes		1	0	48	7000	0.33631

TOTAL BGA	**12539**	**0.07368**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**26713**	**2.96342**

+ 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: **01/03/2022**
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