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. :	6933882 21-15798
LOCALITY :	EM2104707-019
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	22/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and BGA most numerous. Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **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	48	200	0.00970
Nitzschia		2	0	97	400	0.03879
Pennales		1	0	48	300	0.01455
CHLOROPHYCEAE						
Ankistrodesmoideae		160	0	7759	132	1.02415
Chlamydomonads		1	0	48	250	0.01212
Chlorococcoids (<10um)		308	0	14936	60	0.89613
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	97	350	0.03394
CYANOPHYCEAE						
Planktolyngbya		75	0	3637	3.8	0.01382
Pseudanabaena		0	30	58	12.5	0.00073
Synechococcales small (iauv <20)		9760	0	473281	5.25	2.48473
DINOPHYCEAE						
Dinoflagellates		1	0	48	20000	0.96984
Gymnodiniales		1	0	48	2000	0.09698
Gymnodiniales (small)		2	0	97	500	0.04849
Peridiniales		0	15	29	5000	0.14548
OTHER PHYTOPLANKTON						
Other small flagellates		15	0	727	80	0.05819

TOTAL BGA	**476976**	**2.49927**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**500958**	**5.84764**

ANALYST: *Adam Deliyiannis* **Biologist**
REVIEWED: *Louise Ungemach (signatory)* **Biologist**
DATE: **23/03/2021**

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: **23/03/2021**

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