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. :	6873996 21-07778
LOCALITY :	EM2101680_014
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	9/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with excessive levels of small BGA. Water quality is likely to be impaired. Health concerns may be warranted.

Sedgewick-Rafter Vol.(ml) 1.0333 **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						
Naviculales		1	0	48	1400	0.06774
Nitzschia		295	0	14275	400	5.70986
Pennales		1	0	48	300	0.01452
Pennales (small <20um)		25	0	1210	251	0.30364
Pleurosigma		0	2	4	2000	0.00774
CHLOROPHYCEAE						
Ankistrodesmoideae		2280	0	110326	132	14.56305
Carteria		1	0	48	300	0.01452
Chlorococcoids (<10um)		4760	0	230330	60	13.81980
CHRYSOPHYCEAE						
Other Chrysophyceae		10	0	484	350	0.16936
CRYPTOPHYCEAE						
Cryptomonads		5	0	242	320	0.07742
CYANOPHYCEAE						
Spirulina		0	282	546	5.73	0.00313
Synechococcales small (iauv <20)		34000	0	1645214	5.25	8.63738
DINOPHYCEAE						
Ceratium		0	1	2	44000	0.08516
Dinoflagellates		43	0	2081	20000	41.61425
Gymnodiniales (small)		19	0	919	500	0.45969
OTHER PHYTOPLANKTON						
Other small flagellates		100	0	4839	80	0.38711

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **09/02/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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. :	6873996 21-07778
LOCALITY :	EM2101680_014
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	9/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with excessive levels of small BGA. Water quality is likely to be impaired. Health concerns may be warranted.

		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0333						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1645760**		**8.64050**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**2010616**		**85.93437**

+ 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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **09/02/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA