

**Summary table of field observations and cyanobacterial analysis.**

**Sampling Run:** LAKE BURLEY GRIFFIN (BEACH MONITORING)

**Sample Date:** 24/02/2020

**Job Name:**

**Client:** NATIONAL CAPITAL AUTHORITY

Site	Lotus Bay	Ferry Terminal	East Basin	Yarralumla Beach	Black Mountain Beach	Weston Park East	Weston Park West	Captain Cook Memorial	Yarralumla Bay	Acton West
<i>Site Code</i>	<b>LBG510</b>	<b>LBG511</b>	<b>LBG512</b>	<b>LBG514</b>	<b>LBG515</b>	<b>LBG516</b>	<b>LBG517</b>	<b>LBG538</b>	<b>LBG533</b>	<b>LBG539</b>
<i>Sample Date/Time</i>	24/02/2020 11:13	24/02/2020 9:20	24/02/2020 8:50	24/02/2020 11:01	24/02/2020 9:48	24/02/2020 10:33	24/02/2020 10:20	24/02/2020 9:09	24/02/2020 10:50	24/02/2020 9:33
Enterococci – Confirmed (MPN/100mL)	116	4	14	500	10	130	2	36	6	14
Weather conditions	Sunny Hot	Sunny Warm	Sunny Cool	Sunny Hot	Sunny Warm	Sunny Warm	Sunny Warm	Sunny Cool	Sunny Warm	Sunny Warm
Wind conditions	Calm	Calm	Calm	Calm	Calm	Breezy	Calm	Breezy	Calm	Calm
Wind direction	NA	SE	NA	N	NA	NE	N	E	NA	E
Water Surface	Calm	Calm	Calm	Calm	Calm	Calm	Calm	Calm	Calm	Calm
Water Temperature (°C)	25	23	22.5	26.5	24	25	23.54	23	24	23.5
Turbidity (actual - NTU)	6.2	6.2	8.6	5.4	3.4	3.2	1.8	8.4	3.5	5.5
Odour	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Apparent Colour	Green	Green	Brown	Brown	Brown	Brown	Brown	Green	Green	Green
Scums	Absent	Absent	Absent	Absent	Absent	Absent	Green clumps	Green clumps	Absent	Absent
Macrophytes	Absent	Absent	Healthy	Absent	Healthy	Absent	Healthy	Absent	Healthy	Absent
Floating green specks	Dense	Dense	Sparse	Dense	Absent	Dense	Sparse	Dense	Dense	Sparse
Filamentous growth	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Birds on water	0	0	1-10	0	0	10+	1-10	0	1-10	0
Birds around site	0	10+	1-10	0	0	10+	0	0	0	0
Froth at shoreline	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Scant	Nil	Nil
Floating debris	Plant material	Absent	Absent	Absent	Absent	Absent	Absent	Organic	Nil	Absent
Oily film	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Total blue-green algae concentration (cells/mL)	3485	2597	13666	7104	5498	11506	2582	2820	4314	2878
Biovolume mm <sup>3</sup> /L	0.178	0.162	0.823	0.324	0.372	0.65	0.115	0.153	0.35	0.218

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<b>High - risk Cyanophyta (cells/mL)</b>	<b>252</b>	<b>878</b>	<b>310</b>	<b>168</b>	<b>73</b>	<b>599</b>	<b>0</b>	<b>646</b>	<b>1,424</b>	<b>1,088</b>
<i>Microcystis aeruginosa</i>	252	878	310	168	73	146		646	752	650
<i>Dolichospermum circinale</i>						453			672	438
<b>Potential-risk Cyanophyta (cells/mL)</b>	<b>2,297</b>	<b>1,115</b>	<b>12,118</b>	<b>4,884</b>	<b>4,556</b>	<b>7,709</b>	<b>1,791</b>	<b>1,345</b>	<b>1,576</b>	<b>672</b>
<i>Sphaerospermopsis aphanizomenoides</i>	972	626	3456	1898	2862	3504	629	646	737	387
<i>Cuspidothrix issatchenkoi</i>	864	374	6696	913	1314	2190	703	471	635	168
<i>Geitlerinema spp</i>	461	115	749	1358	380	2015	459	228	204	117
<i>Planktothrix agardhii</i>			1217	715						
<b>Low-risk Cyanophyta (cells/mL)</b>	<b>936</b>	<b>604</b>	<b>1,238</b>	<b>2,052</b>	<b>869</b>	<b>3,198</b>	<b>791</b>	<b>829</b>	<b>1,255</b>	<b>1,618</b>
<i>Aphanocapsa spp</i>	634	374	662	745	329	1577	192	494	803	745
<i>Chroococcus spp</i>	86	43	86	891	102	292	89	61	29	117
<i>Cyanogranis spp</i>	216	187	490	416	438	219	118	122	219	756
<i>Planktolyngbya limnetica</i>						1110	392	152	204	