

Aquatic Park Lagoon Enterococcus Sampling Results

Sample Collection Date	North	Middle	South	Comments/Observatons
4/9/2024	20	ND	ND	
4/2/2024	ND	ND	ND	
3/26/2024	ND	10	ND	
3/19/2024	100	ND	ND	
3/12/2024	ND	ND	ND	
3/8/2024	ND	ND	ND	Yellow advisory lifted based on 2nd consectutive sample set with no exceedances
2/27/2024	10	ND	ND	Yellow Advisory to remain in effect for 2nd consectutive week following an exceedance in one of the 3 samples the previous week
2/22/2024	ND	ND	510	Yellow Advisory Posted due to exceedance in the South sample; slight precipitation recorded on 2/20/24
2/15/2024	100	31	41	
2/8/2024	74	20	20	
1/30/2024	100	10	20	Yellow advisory to remain in-effect until two (2) consecutive sample sets show no exceedances

1/23/2024	110	170	41	Yellow Advisory to remain in-effect due to Enterococcus exceedance in two (2) of the collected samples. Slight amounts of precipitation was recorded on 1/22/24, which likely accounted for the elevated Enterococcus levels
1/16/2024	10	10	10	Yellow advisory to remain in-effect until two (2) consecutive sample sets show no exceedances
1/9/2024	ND	180	20	Yellow Advisory to remain in-effect due to Enterococcus exceedance in one of the collected samples. Slight amounts of precipitation was recorded on 1/9/24, which likely accounted for the elevated Enterococcus levels in the Middle the sample site
1/4/2024	31	ND	10	Yellow advisory to remain in-effect for at least an additional week due to no samples having been collected the previous week
12/24 - 12/30/23				No samples collected
12/19/23	6100	840	340	Lagoon is under Yellow Advisory due to Enterococcus exceedances in each of the collected samples. Significant amounts of precipitation were recorded on 12/17/23, and samples were collected on 12/19/23, which likely accounted for the elevated Enterococcus levels in each of the samples
12/13/23	10	10	31	
12/6/23	ND	ND	ND	
11/29/23	ND	ND	ND	
11/22/23	ND	10	ND	
11/14/23	41	ND	ND	
11/9/23	ND	ND	10	
10/31/23	ND	ND	ND	

10/24/23	ND	ND	ND	
10/17/23	20	ND	ND	
10/12/23	ND	ND	ND	
10/3/23	ND	ND	ND	
9/26/23	63	ND	ND	
9/21/23	ND	ND	ND	
9/12/23	10	10	ND	
9/5/23	10	ND	ND	
8/29/23	ND	ND	ND	
8/22/23	ND	10	ND	
8/17/23	ND	ND	ND	
8/8/23	ND	ND	ND	
8/1/23	10	ND	ND	

7/27/2023	ND	ND	ND	
7/18/2023	ND	20	ND	
7/11/2023	ND	ND	ND	Yellow advisory lifted
7/6/2023	20	ND	ND	
6/27/2023	ND	100	220	Yellow Advisory Posted due to exceedance in the South sample
6/20/2023	ND	ND	ND	
6/13/2023	ND	52	ND	
6/6/2023	41	10	10	Yellow Advisory has been lifted after 2 consecutive sets of bacteriological samples have no exceedances.
5/30/2023	ND	ND	10	
5/23/2023	20	ND	230	Lagoon is under Yellow Advisory due to Enterococcus exceedances in South sample point; no measurable amounts of precipitation were recorded on 5/23/23; no reported sewage release on/around 5/23/23;
5/16/2023	ND	ND	ND	Advisory lifted as of 5/16/22 based on water sample results received for 2nd consecutive week w/no exceedances
5/9/2023	ND	ND	ND	
5/2/2023	860	30	20	Lagoon is under Yellow Advisory due to Enterococcus exceedances in North sample point; no measurable amounts of precipitation were recorded on 5/2/23; no reported sewage release on/around 5/2/23;

4/25/2023	10/13 g/kg	ND/12 g/kg	ND/12 g/kg	Salinity samples were measured at 10, 12, & 12 g/kg
4/18/2023	ND/10 g/kg	ND/11 g/kg	20/10 g/kg	Salinity samples were measured at 10, 11, & 10 g/kg
4/11/2023	ND/8.9 g/kg	10/9.5 g/kg	20/9.4 g/kg	Advisory lifted as of 4/11/22 based on water sample results received for 2nd consecutive week w/no exceedances Salinity samples were measured at 8.9, 9.5 & 9.4 g/kg
4/4/2023	ND/9 g/kg	20/9.1 g/kg	20/9.1 g/kg	Salinity samples were measured at 9, 9.1 & 9.1 g/kg
3/28/2023	20/10 g/kg	630/8.9 g/kg	96/9 g/kg	Only one exceedance (middle) resulting in a continued Yellow advisory. Measurable amounts of rain were recorded during the early morning hours on 3/28/23, which could account for the spike in the middle sample. Salinity samples were measured at 10, 8.9 & 9 g/kg
3/21/2023	31/12 g/kg	31/12 g/kg	400/11 g/kg	Only one exceedance (south) resulting in a continued Yellow advisory. Measurable amounts of rain were recorded during the early morning hours on 3/21/23 and continued into the week. Salinity samples were measured at 12, 12 & 11 g/kg
3/14/2023	5500/11 g/kg	1300/10 g/kg	1600/10 g/kg	Exceedances in all 3 samples (north, middle and south) resulting in a continued Yellow advisory. Measurable amounts of precipitation were recorded on/around 3/14/23, which is a likely cause for the exceedances. Initiated salinity sampling at each of the sampling sites with results reflected as # grams of salt/kg of bay water (in the lagoon)
3/10/2023	1000	860	800	Exceedances in all 3 samples (north, middle and south) resulting in a Yellow advisory. Measurable amounts of precipitation were recorded on/around 2/28/23, which is a likely cause for the exceedances.
2/21/2023	20	100	30	
2/16/2023	20	ND	ND	
2/7/2023	20	10	10	Rec'd community concerns over the presence/observations of several dead leopard sharks and bat rays; staff conducted cursory assessment, and met with EBMUD staff who were investigating complaints of "rotten egg" odor, but unable to identify source/cause; notified Fish and Wildlife by completing Mortality Report on F/W website;
1/31/2023	100	100	ND	Yellow Advisory lifted as of 2/9/23 based on two consecutive sample sets with no Enterococcus exceedances; reports of 3 dead sting rays observed on 2/7/23, however no other dead fish or other wildlife were observed/reported; State Fish and Wildlife were notified by the reporting party via email on 2/7/23
1/26/2023	20	31	ND	

1/17/2023	200	97	230	Lagoon to remain under yellow advisory; slight, but measurable amounts of rainfall was detected on 1/15/23; 2 of the 3 sample sites exceeded the Enterococcus thresholds;
1/10/2023	4900	4100	1800	Lagoon to remain under yellow advisory; significant amounts of rainfall on 1/10/23 resulting in significant Enterococcus exceedances in each of the 3 sample points;
1/3/2023	670	170	150	Lagoon to remain under yellow advisory; measurable amounts of rainfall on/around 1/2 - 1/3/23 resulting in Enterococcus exceedances in each of the 3 sample points;
12/29/2022	380	2000	1700	Lagoon to remain under yellow advisory; measurable amounts of rainfall on/around 12/29/22 resulting in Enterococcus exceedances in each of the 3 sample points;
12/20/2022	ND	30	1100	Lagoon to remain under yellow advisory; no measureable amounts of rain was detected on/around 12/20/22; unknown cause for Enterococcus spike from the South sample point as there was no 'unusual' activity observed at the lagoon during sampling
12/14/2022	10	ND	100	Lagoon to remain under yellow advisory; no measureable amounts of rain on/around 12/14/22; staff observed "floating slime and foam" in the North and Middle sample points; abundance of ducks and other water fowl were observed in the South sample point at time of collection
12/6/2022	ND	30	ND	
11/29/2022	10	200	ND	Lagoon to remain under Yellow Advisory until 2 successive sample sets are all below the threshold of 110 cfu/100 ml; no detectable rainfall on/around 11/29/22; no observations/notes recorded re: the presence of water fowl and/or other unusual activity observed at the lagoon
11/22/2022	ND	ND	150	Lagoon to remain under Yellow Advisory until 2 successive sample sets are all below the threshold of 110 cfu/100 ml; no detectable rainfall on/around 11/22/22, however staff observed ducks and other water fowl present in moderate numbers between the middle and southern sampling points
11/15/2022	ND	ND	10	
11/8/2022	500	660	590	Lagoon is under Yellow Advisory due to Enterococcus exceedances in each of the collected samples; Measurable amounts of precipitation were recorded on 11/7/22 and 11/8/22, which likely accounts for the elevated Enterococcus levels in each sample;
11/3/2022	ND	31	ND	
10/25/2022	ND	31	ND	

10/18/2022	10	ND	ND	
10/17/2022				No Enterococcus samples collected this day, however, EH staff investigated a report of a what appeared to be a small quantity of paint dumped into the lagoon; City Parks Division dispatched Clean Harbors to boom and vacuum up remaining paint residual that same day, 10/17/22. There were no sightings or reports of other dead fish or other animals as a result.
10/13/2022	ND	ND	ND	
10/4/2022	30	31	ND	
9/27/2022	10	20	ND	
9/22/2022	ND	31	ND	
9/13/2022	ND	ND	10	
9/6/2022	ND	ND	ND	
8/30/2022	10	20	ND	Collected samples appeared brownish in color (likely due to the "red tide" event)
8/23/2022	ND	ND	ND	
8/16/2022	ND	ND	ND	
8/9/2022	ND	ND	ND	
8/4/2022	ND	ND	ND	

7/26/2022	ND	ND	ND	
7/19/2022	20	10	ND	
7/12/2022	ND	10	20	
7/5/2022	20	10	10	
6/28/2022	31	41	10	
6/23/2022	ND	10	ND	
6/14/2022	ND	100	30	
6/6/2022	41	20	10	
5/31/2022	0	10	10	
5/26/2022	10	ND	ND	
5/17/2022	ND	ND	ND	
5/10/2022	ND	ND	ND	
5/3/2022	10	100	ND	Advisory lifted as of 5/16/22 based on water sample results received for 2nd consecutiv week w/no exceedances

4/26/2022	0	10	10	
4/19/2022	200	110	10	Exceedances in 2 of 3 samples (north, middle lagoon sample) resulting in the continuance of a Yellow advisory. Measurable amounts of precipitation were recorded on 4/19/22, which is a likely cause for the exceedance.
4/12/2022	100	200	ND	Exceedances in 1 of 3 samples (middle lagoon sample) resulting in the continuance of a Yellow advisory. Measurable amounts of precipitation were recorded on 4/11/22, which is a likely cause for the exceedance.
4/5/2022	ND	ND	10	
3/29/2022	10	200	100	Exceedance in 1 of 3 samples (middle sample) resulting in a Yellow advisory. Measurable amounts of precipitation were recorded on 3/27 and on 3/28/2022, which is a likely cause for the exceedance.
3/22/2022	10	ND	100	
3/15/2022	10	75	20	
3/8/2022	ND	10	20	
3/1/2022	10	ND	ND	
2/22/2022	ND	10	ND	Advisory lifted as of 2/22/22 based on water sample results received for 2nd consecutive week w/no exceedances
2/15/2022	ND	20	20	
2/8/2022	ND	410	41	Yellow Advisory reinstated due to an exceedance in 1 of the 3 samples collected on 2/8/2022; there was no measurable amount of rainfall, and there were no reports of sewage releases on/or around 2/8/2022
2/3/2022	ND	ND	ND	Advisory lifted as of 2/10/22 based on satisfactory results of each of the 3 sample points testing below the 110 cfu/100ml threshold for 2 consecutive weeks after the exceedance on the 1/13/22 sample

1/25/2022	ND	41	20	
1/18/2022	ND	20	20	
1/13/2022	ND	620	30	Advisory to remain in-effect for 2 additional sampling events due to a spike in the Enterococcus levels collected from the mid-lagoon sampling point. No reports of sewage release, however there was a report of possible illegal dumping which was received on 1/5/22; EH staff investigated but were unable to determine whether illegal dumping occurred.
1/4/2022	180	180	41	Advisory reinstated due to exceedances in 2 of the 3 samples collected on 1/4/2022; minor amounts of rainfall ranging from 0.1 - 0.3" fell from 1/1 - 1/4/2022, which may have contributed to the higher bacterial counts; there were no reports of sewage releases in/around the Aquatic Park Lagoon; there was a report of possible illegal dumping into the lagoon on 1/5/2022, however, EH staff investigated but were unable to determine whether illegal dumping occurred.
12/28/2021	10	100	41	Advisory lifted as of 1/10/22 based on satisfactory results of each of the 3 sample points testing below the 110 cfu/100ml threshold for 2 consecutive weeks after the exceedances on the 12/14/21 samples
12/21/2021	41	10	100	
12/14/2021	1800	3,300	2700	Yellow Advisory to remain in-effect due to exceedances in each of the 3 sample locations; over 3" of rainfall were recorded on 12/13/21, which likely caused the bacteria levels to spike
12/7/2021	360	10	100	Yellow Advisory posted on Friday, 12/17/21 due to elevated Enterococcus level in the North sample point on 12/7/21; no measurable amounts of rain were recorded on 12/6/21, and no reports of surfacing sewage overflows on/around 12/7/21.
11/30/2021	ND	ND	20	
11/23/2021	10	ND	50	Advisory lifted as of 12/7/21 based on satisfactory results of each of the 3 sample points testing below the 110 cfu/100ml threshold for 2 consecutive weeks after the initial exceedance on the 11/9/21 sample
11/16/2021	31	10	100	
11/9/2021	400	1,200	100	Measurable amounts of precipitation were recorded on 11/8/21 and 11/9/21, which is the likely cause for elevated Enterococcus levels; Yellow Advisory to remain in-effect for at least 2 consecutive sampling cycles
11/2/2021	10	100	10	

10/26/2021	8200	10,400	6488	Yellow Advisory posted on Friday, 10/29/21 due to preliminary results provided by lab; spike caused by significant rain events during previous several days prior to sample collection
10/19/2021	10	ND	ND	
10/12/2021	10	ND	ND	
10/5/2021	ND	10	ND	
9/30/2021	20	ND	ND	Sample collected on Thursday instead of Tuesday
9/21/2021	20	ND	ND	
9/14/2021	ND	ND	ND	
9/7/2021	ND	10	ND	
8/31/2021	ND	30	ND	
8/24/2021	ND	ND	10	
8/17/2021	ND	10	ND	
8/10/2021	ND	ND	ND	
8/3/2021	ND	ND	ND	

7/27/2021	ND	ND	ND	
7/20/2021	ND	10	ND	Advisory lifted as of 7/28/21 based on satisfactory results of each of the 3 sample points testing below the 110 cfu/100ml threshold for 2 consecutive weeks after the initial exceedance on the 7/6/21 sample
7/13/2021	ND	10	10	
7/6/2021	ND	230	ND	Yellow Advisory to be posted; no reports of sewage release in/around the AP lagoon; no rain recorded since April; according to our staff sampler, there was a large presence of Canadian geese in middle segment of the lagoon at the time of sampling
6/29/2021	ND	41	ND	
6/22/2021	ND	ND	10	
6/15/2021	ND	10	ND	
6/8/2021	ND	10	ND	
6/1/2021	ND	ND	ND	
5/25/2021	ND	31	ND	
5/18/2021	ND	41	ND	
5/11/2021	ND	ND	10	
5/4/2021	ND	20	ND	

4/27/2021	10	100	20	
4/20/2021	10	ND	ND	
4/13/2021	Nd	ND	10	
4/6/2021	20	10	10	
3/30/2021	20	20	ND	
3/23/2021	10	ND	20	
3/16/2021	ND	ND	ND	
3/9/2021	41	31	ND	
3/2/2021	ND	10	ND	
2/23/2021	31	ND	10	
2/16/2021	ND	20	10	Advisory lifted as of 2/25/21 based on water sample results received for 2nd consecutive week w/no exceedances
2/9/2021	ND	ND	41	Advisory posted on 2/11/21 due to notification of Enterococcus exceedances in water samples collected on 2/2/21
2/2/2021	590	360	120	Fairly significant rainfall between 1/31/21 - 2/2/21; no reported sewage releases reported in Berkeley on/around that date range

1/26/2021	ND	10	ND	
1/19/2021	31	100	200	No rain reported, however unusually strong wind gusts recorded earlier that morning and during the day, which could have blown additional debris into the lagoon
1/12/2021	10	ND	100	
1/5/2021	160	63	31	Some rainfall recorded on 1/4 and 1/6/21
12/29/2020	31	10	63	
12/22/2020	10	10	ND	
12/15/2020	1300	20	120	Fairly significant rainfall recorded on 12/13/20; no reported sewage releases reported in Berkeley on/around that date
12/8/2020	100	10	100	
12/1/2020	10	ND	ND	
11/24/2020	10	10	10	
11/17/2020	10	200	200	Minor rain showers
11/10/2020	10	ND	ND	
11/3/2020	ND	10	10	

10/27/2020	ND	ND	10	
10/20/2020	200	ND	10	No reported sewage releases reported in/around Berkeley
10/13/2020	20	ND	* N/A	* Sample not collected due to time constraint with sample 'hold-time' and courier service
10/6/2020	ND	ND	10	
9/29/2020	ND	20	100	
9/22/2020	84	ND	ND	
9/17/2020	10	97	31	
<p>NOTE: The State standard for monitoring water quality and determining posting status for the Aquatic Park lagoon is based on the “Enterococcus” numbers only. Enterococcus figures in RED exceed the State Standard</p>				
<p>http://www.balancehydrologics.com/raingage/index.php</p>				
<p>https://www.waterboards.ca.gov/water_issues/programs/sso/sso_map/sso_pub.shtml</p>				

<https://www.localconditions.com/weather-berkeley-california/94701/>

Indicates Advisory Posted due to Enterococcus exceedance

CALIFORNIA STATE STANDARDS	CURRENT STATE STANDARDS FOR SINGLE SAMPLE (#cfu/100 ml)			
BACTERIAL CONSTITUENT				
Enterococcus:	≤ 110			

