

Hurricane Aquatics, LLC

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I5746 E-1

Lake Maintenance Service Report

ACCOUNT: Viewpoint Lake, Sun City Recreation
10626 West Thunderbird Blvd, Sun City, AZ 85351

TO: Brian Duthu

FROM: Janet Scheffman / 950158

DATE: Week of 03 June 2024

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The water levels remain at normal full levels after the lake was refilled in November (2023) and an increase in water levels from last week.

All four of the fountains are operational as of April; 103rd Av, Bayside, Cameo Bridge and the Rec Center. Cameo Bridge fountain is running but the nozzle is getting clogged.

Average surface temp: 82.5 F
Average bottom temp: 82.2 F
Salinity: 0.2 ppt
Dissolved oxygen: 5.98 mg/L (surface) / 5.60 (bottom)
Secchi: 5 feet 08 inches
pH: 8.2
Current water levels: +3.0

With the extreme summer heat here now the water temperatures will stay more stable over the next few months. It is very hot but the weather is consistent, so water temperatures are as well.

The average lake clarity remains high, especially for the warmer months. There is some planktonic algae in the water column which give the lake a green tint but the planktonic growth remains uniform and there are no surface algae blooms.

The planktonic growth in the water column has reduced the clarity slightly since last month but is better than the majority of other lakes in the valley.

The lake remains clear and with the water temperatures in the 80s and 14 hours of daylight the bottom algae growth appreciated appreciably in mid to late May. The past couple weeks there was slightly less bottom algae growth but there was still some floating mats. Most of the bottom algae had accumulated along the north side of the lake in the cameo cove and the Bayside cove.

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The mats of filamentous algae that were treated earlier last month has died back. Algaecide treatments are effective with filamentous algae but much less effective on bottom algae. Filamentous algae is the green horse hair algae; bottom algae is the thick, brown algae that floats up from the lake bottom.

The more effective treatment for bottom algae is to add lake colorant to the lake; it will reduce the amount of light that reaches the bottom, and it will reduce the planktonic algae in the water column. It also turned the lake a more blueish color instead of the green from the algae.

The lake has been treated with lake dye in the past and the results were very good. A dye application is 40 gallons and a cost of around \$2500.00 for chemicals; no additional labor fees are added on.

Treated around and on the boat ramp with liquid captain algaecide last week because the ramp was getting slick. Periodic treatments with algaecide in the warmer months on the ramp are done as a safety precaution.

No waterfowl losses seen; one dead fish (very decomposed trout).

The majority of the seasonal waterfowl have taken off with the recent increase in temperatures and longer days. The lake has some permanent water birds but much fewer than most lakes of a similar size.

There were some midge flies seen around the lagoon area in the spring, but none seen after the recent more summer like temperatures.

Warning: None

Pesticides can be hazardous. Please keep children and pets away until applications are dry, dissipated, or aerated. For additional information contact Hurricane Aquatics (license # 5746) at (602) 619-8492.