



Log Details - #7

Aurora Lake

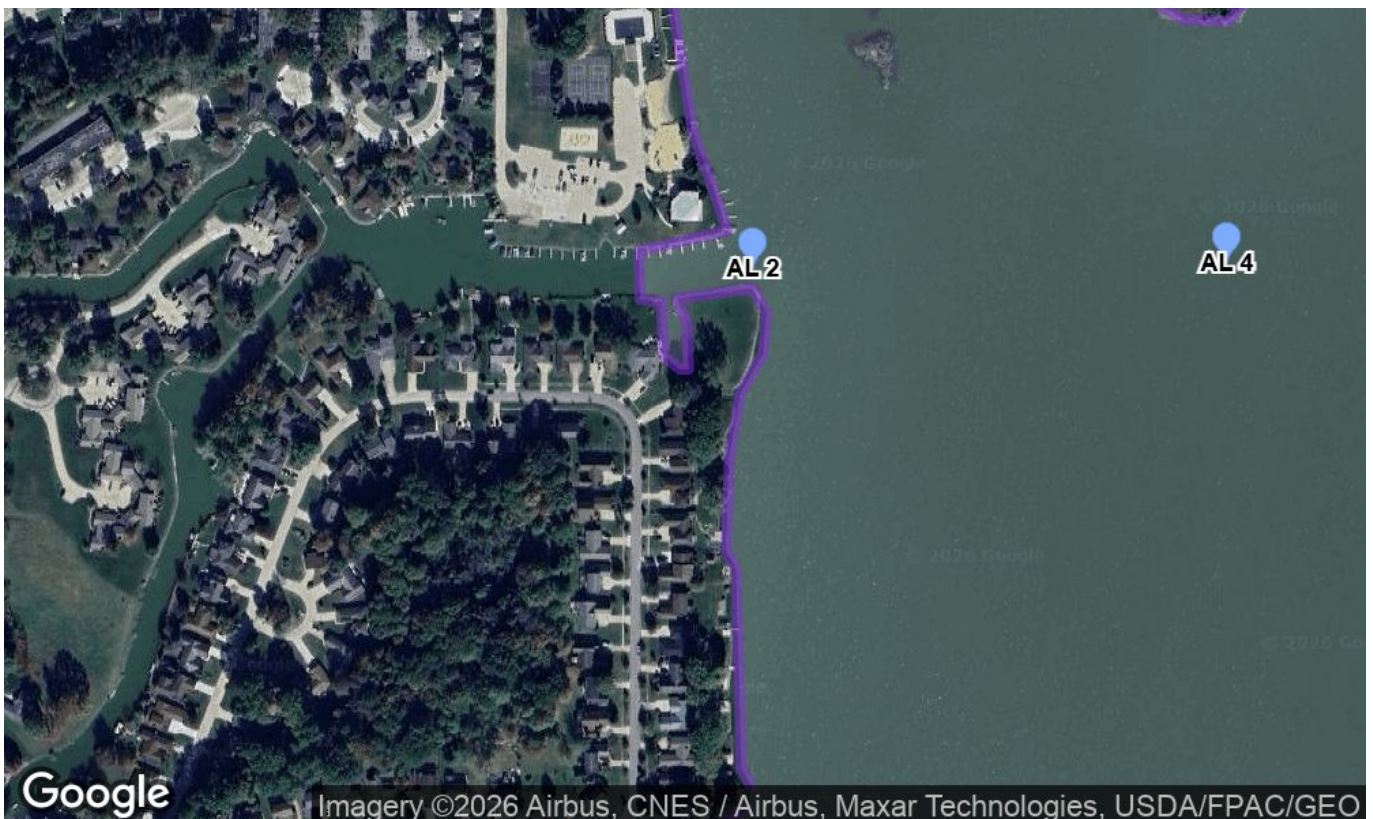
1206 Surfside Cir, Aurora, OH 44202,
USA

General Info

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Weather Data				General Information	
Temperature	86°F			Start Date/Time	09/18/2025 10:00 AM
Conditions	Clear	Wind	1.42 mph North-East	Lead Staff	Ed Kwietniewski
Humidity	29%	Pressure	1018 hPa	Additional Staff	Ed Kwietniewski
Sunrise/Sunset	7:13 AM / 7:23 PM				

Map



Map Graphics

Type	Coordinates	Label	Area	Perimeter
marker	41.323325, -81.385441	AL 10	N/A	--
marker	41.326902, -81.389003	AL 7	N/A	--
marker	41.326419, -81.380849	AL 9	N/A	--
marker	41.328836, -81.382008	AL 8	N/A	--
marker	41.330705, -81.388273	AL 6	N/A	--
marker	41.332896, -81.380892	AL 5	N/A	--
marker	41.337086, -81.383510	AL 3	N/A	--
marker	41.334927, -81.385913	AL 4	N/A	--
marker	41.334894, -81.389647	AL 2	N/A	--
marker	41.339921, -81.388673	AL 1	N/A	--

Observation

Species	Type	Severity	Location	Treated
Planktonic Algae	Other	Low	Site Wide	No

Photos

No photos have been added

Notes

Today we conducted our 7th regularly scheduled visit to Aurora Lake for the 2025 season.

Overall, Aurora Lake continues to look good with regards to nuisance algae growth and was supported by collected spatial chlorophyll-a concentrations that were well below our threshold for concerning algal biomass (7 ug/L). Chlorophyll-a averaged lower overall during today's visit compared to our previous on 9/4/2025 (2.99 ug/L average on 9/4 vs. 2.18 ug/L for today's visitation). We are tracking continual and gradual algal reduction as the season progresses deeper into the Fall and overall temperatures reduce. Keep in mind that variable Fall temperatures can still create optimal bloom conditions and some planktonic algae blooms have been seen occurring as late as November. Specific chlorophyll-a concentrations are as follows:

AL 1: 2.76 ug/L
AL 2: 1.07
AL 3: 1.58
AL 4 1.64
AL 5: 1.23
AL 6: 1.27
AL 7: 4.31
AL 8: 1.72
AL 9: 3.23
AL 10: 3.03

Water profile data collected at the deep point showcased very weak stratification with the final 2 feet of water also being anoxic. This continues to confirm Aurora Lake as a polymictic system whereas the lake mixes multiple times throughout the year due to its scale and shallow nature. Negative ORP values were also confirmed at the last foot of water depth suggesting a heightened likelihood of the iron-sulfur trap occurring due to reduced redox reactions (internal P-release) but, this should subside during the lake's next mixing event. All other parameters appeared to be normal for the lake.

No chemical applications were needed due to the low concentration of algae growth noted in the lake. A phosphorus sample was collected at the deep point sampling location.

I am encouraged by the algal reduction and continual good appearance of the lake. Cooler temperatures, reduced lake use in the Fall, and earlier applications with carp removal seemed to have allowed for the lake to end its season on a high note. For the next year, incorporating the buoy system in the Spring will allow for us to continue to monitor algae conditions and be more selective/prepared with potential applications or other management techniques. Continual removal of carp overtime will also continue to aid in reducing suspended sediment/ internal nutrient loading.

We will be back again in approximately 2 weeks.

Thanks!
-Ed Kwietniewski