



# Log Details - #9

Aurora Lake

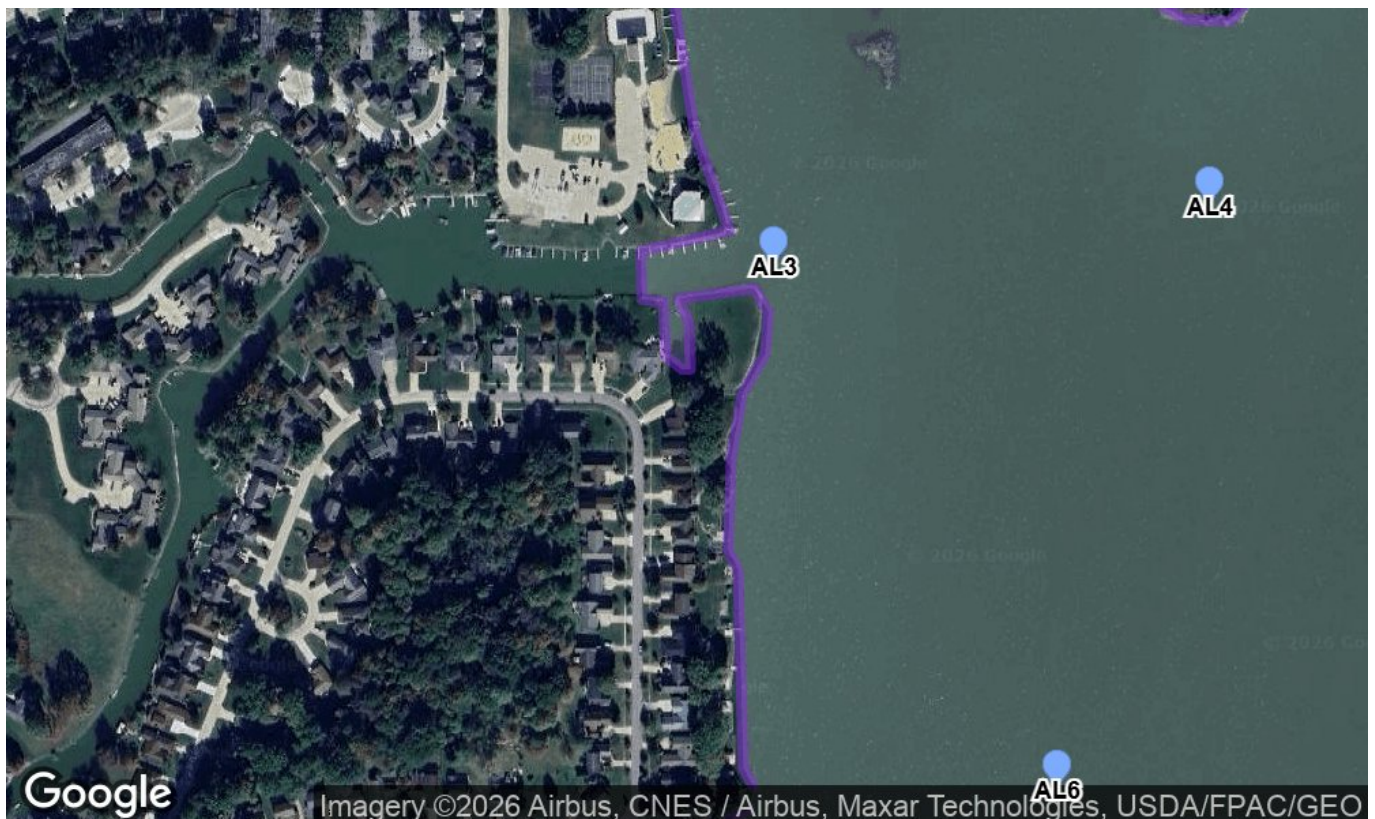
1206 Surfside Cir, Aurora, OH 44202,  
USA

## General Info

### General Info

Weather Data				General Information	
Temperature	60°F			Start Date/Time	10/16/2025 03:43 PM
Conditions	Clear sky	Wind	5.75 mph North	Lead Staff	Ed Kwietniewski
Humidity	43%	Pressure	1021 hPa	Additional Staff	Ed Kwietniewski
Sunrise/Sunset	7:38 AM / 6:43 PM				

### Map



## Map Graphics

Type	Coordinates	Label	Area	Perimeter
marker	41.323134, -81.385156	AL10	N/A	--
marker	41.327485, -81.389105	AL7	N/A	--
marker	41.326518, -81.380865	AL9	N/A	--
marker	41.329290, -81.381981	AL8	N/A	--
marker	41.331803, -81.387259	AL6	N/A	--
marker	41.333028, -81.380521	AL5	N/A	--
marker	41.335251, -81.386058	AL4	N/A	--
marker	41.337217, -81.383483	AL2	N/A	--
marker	41.334897, -81.389491	AL3	N/A	--
marker	41.339795, -81.388804	AL1	N/A	--

---

## Observation

Species	Type	Severity	Location	Treated
Cyanobacteria	Other	Low	Site Wide	No
Eurasian watermilfoil	Submerged plants	Very slight		No
Common waterweed	Submerged plants	None		No

---

## Photos



Boat Launch



General color of the water during today's visitation.



Appearance of open water facing north.



genral appearance of sample site A9



Eurasian watermilfoil



Common waterweed

NOTES  
 Location Name: Aurora Lake  
 Site Name: Deep point  
 Date: 10/2/25

Water Conditions: Light: 2.0000, Secchi: 2.0000, Turbidity: 0.0000  
 Water pH: 7.0000, Surface Salinity: 0.0000, Conductivity: 0.0000, Total Dissolved Solids: 0.0000

Water Temperature: 10.0000, 10.0000, 10.0000, 10.0000, 10.0000, 10.0000, 10.0000, 10.0000, 10.0000, 10.0000

Depth	Temperature	Conductivity	Dissolved Oxygen	pH	Chlorophyll-a	Phycocyanin
0.5	10.0	140.0	8.5	7.0	1.5	0.5
1.0	10.0	140.0	8.5	7.0	1.5	0.5
1.5	10.0	140.0	8.5	7.0	1.5	0.5
2.0	10.0	140.0	8.5	7.0	1.5	0.5
2.5	10.0	140.0	8.5	7.0	1.5	0.5
3.0	10.0	140.0	8.5	7.0	1.5	0.5
3.5	10.0	140.0	8.5	7.0	1.5	0.5
4.0	10.0	140.0	8.5	7.0	1.5	0.5
4.5	10.0	140.0	8.5	7.0	1.5	0.5
5.0	10.0	140.0	8.5	7.0	1.5	0.5
5.5	10.0	140.0	8.5	7.0	1.5	0.5
6.0	10.0	140.0	8.5	7.0	1.5	0.5
6.5	10.0	140.0	8.5	7.0	1.5	0.5
7.0	10.0	140.0	8.5	7.0	1.5	0.5
7.5	10.0	140.0	8.5	7.0	1.5	0.5
8.0	10.0	140.0	8.5	7.0	1.5	0.5
8.5	10.0	140.0	8.5	7.0	1.5	0.5
9.0	10.0	140.0	8.5	7.0	1.5	0.5
9.5	10.0	140.0	8.5	7.0	1.5	0.5
10.0	10.0	140.0	8.5	7.0	1.5	0.5

Spatial Chlorophyll-a

A1	1.82 ug/L
A2	2.02 ug/L
A3	1.62 ug/L
A4	1.72 ug/L
A5	1.32 ug/L
A6	2.02 ug/L
A7	1.62 ug/L
A8	1.72 ug/L
A9	1.62 ug/L
A10	1.42 ug/L
Ave	1.67 ug/L

Data sheet from today's visitation.

## Notes

Today was our 9th visitation to assess Aurora Lake.

Overall appearance of the lake was similar to our last visit on 10/2/2025. Planktonic/Cyanobacterial algal growth was noted throughout the lake but did not appear to be in as great of density as our Aphanizomenon bloom observed mid-summer. Interestingly, a few individuals of submersed plant were observed and identified near sampling location A9. Specifically, three individuals of Eurasian watermilfoil, an invasive submersed plant, and one individual of common waterweed were noted as fragments floating in this location (pictures of plant conditions above). Keeping a log of any observed submersed plants found in Aurora Lake will prove to be useful if the lake does experience a stable state change toward a plant-dominant system. If this does occur, plants that we find now are more likely to be our established population. The currently identified plants likely floated in from the inlet at this location.

Spatial chlorophyll-a concentrations showcased an overall average of 1.67 ug/L amongst all ten sampling locations. This is a significant overall reduction from our previous visitation on 10/2/2025 which averaged over 4 ug/L. It should be noted however, that the ratio of cyanobacterial phycocyanin pigment to general chlorophyll-a was higher suggesting a greater dominance of

cyanobacterial alga types over green algae or other varieties. Site specific data is as follows:

AL1: 1.92 ug/L  
AL2: 2.07  
AL3: 1.63  
AL4: 1.92  
AL5: 1.36  
AL6: 2.01  
AL7: 1.47  
AL8: 1.92  
AL9: 0.95  
AL10: 1.45

Depth profile data echoes what was collected on 10/2/2025 and showcased the lake completely mixed from surface to bottom. All parameters fell within normal thresholds for Ohio lakes.

In addition to our regular data collection, a microcystin and E. coli sample were collected at the deep point. An additional E. coli sample was collected at the northeastern inlet. Wet chemistry was delivered directly after sampling.

Once the date for the lake's drawdown is established, please let me know so I can schedule removal of the in-situ buoy accordingly.

Thanks!  
-Ed Kwietniewski