



Log Details - #6

Aurora Lake

1206 Surfside Cir, Aurora, OH 44202,
USA

General Info

General Info

Weather Data				General Information	
Temperature	89°F			Start Date/Time	07/14/2026 09:30 AM
Conditions	Clear	Wind	2.49 mph East	Lead Staff	Ed Kwietniewski
Humidity	43%	Pressure	1020 hPa	Additional Staff	Ed Kwietniewski
Sunrise/Sunset	6:08 AM / 8:54 PM				

Map



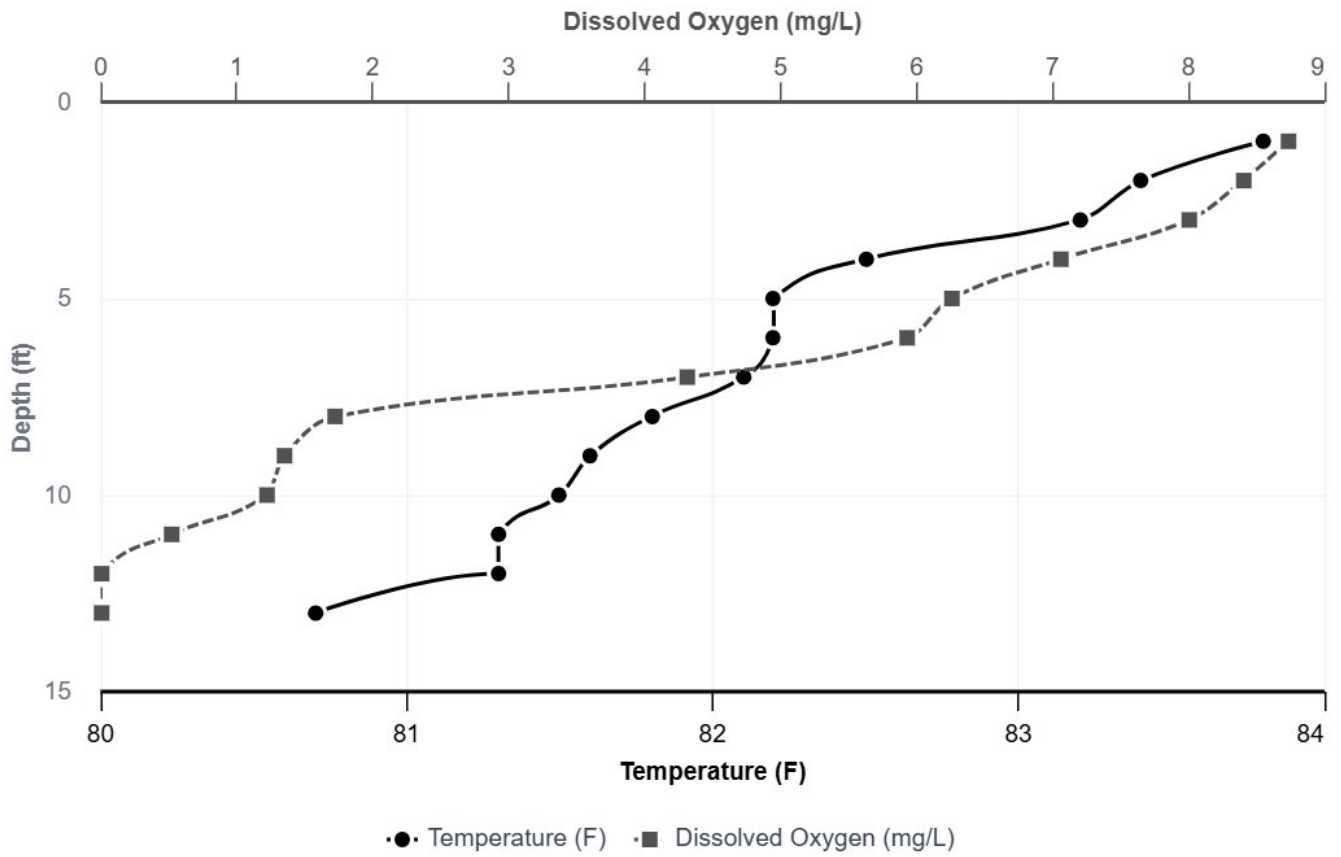
Map Graphics

Type	Coordinates	Label	Area	Perimeter
marker	41.334934, -81.389631	AL 4	N/A	--
marker	41.337174, -81.383108	AL 2	N/A	--
marker	41.330809, -81.386605	AL 6	N/A	--
marker	41.332775, -81.380597	AL 5	N/A	--
marker	41.327281, -81.388429	AL 7	N/A	--
marker	41.329118, -81.381691	AL 8	N/A	--
marker	41.335611, -81.386155	AL 3	N/A	--
marker	41.326555, -81.381048	AL 9	N/A	--
marker	41.339767, -81.388743	AL 1	N/A	--
marker	41.323558, -81.385232	AL 10	N/A	--

Depth Profile

Aurora Lake 1

Depth Profile 7-14-2026



Profile Data 13 data points

Depth	Temperature (F)	Dissolved Oxygen (mg/L)
1.00	83.80	8.73
2.00	83.40	8.40
3.00	83.20	8.00
4.00	82.50	7.06
5.00	82.20	6.26
6.00	82.20	5.93
7.00	82.10	4.32
8.00	81.80	1.73
9.00	81.60	1.35
10.00	81.50	1.22
11.00	81.30	0.52
12.00	81.30	0.00
13.00	80.70	0.00

Observation

Species	Type	Severity	Location	Treated
Cyanobacteria	Other	Low		No

Photos



General color of water 7-14-2026



Mid-lake 7-14-2026



Mid lake 7-14-2026



Cove with spatterdock 7-14-2026



South cove around island 7-14-2026



Exposed shoreline 7-14-2026



Exposed shoreline 7-14-2026



South cove around Island 7-14-2026



Identified lilies 7-14-2026



Soth cove around island 7-14-2026



Buoy maint. 7-14-2026

Notes

AQUA DOC: Lake and Pond Management - 7/14/2026

AQUA DOC conducted our 6th, regularly scheduled visit to Aurora Lake on 7/14/2026. The lake is maintaining a good overall condition for recreational use with algal density remaining lower than what we have experienced around this time in previous years. No chemical applications were necessary, and none have been conducted since our treatment of the south end of the lake on 5/28/2026. During our visit today, we collected our usual spatial chlorophyll a data, a depth profile at location AL 6, wet chemistry samples that included total phosphorus, E. coli (at the beaches), and Microcystin, and maintenance of the in-situ buoy. All wet chemistry samples were delivered to their respective labs on the same day.

Collected depth profile data showcase Aurora Lake as relatively weakly stratified during our visitation with a pattern of decreasing temperature being noted as depth increased (See above). Dissolved oxygen showcased typical reduction beyond 7.0 ft with anoxic ("0") conditions being met at the last two feet of water. Oxidative-reduction potential was negative at the final foot of depth suggesting P-release at the sediment layer during our visitation. This is important to note as anoxic and reduced reaction potential will allow for internal release of phosphorus which, when mixed with upper waters, can trigger an algal bloom during favorable climatic conditions.

Spatial chlorophyll data showcased similar values to previous sampling periods. Average chlorophyll a concentrations collected across all sampling locations was 4.32 ug/L. Specifics are reported below:

AL1: 3.95 ug/L
AL2: 4.96
AL3: 3.28
AL4: 3.36
AL5: 3.63
AL6: 4.12
AL7: 4.45
AL8: 3.78
AL9: 7.7
AL10: 4.38
Cove: 3.87

Total phosphorus and Microcystin wet chemistry samples were collected at the deep point (AL6). E. coli was collected at both recreational beaches. Thus far, values have not exceeded concerning thresholds for recreational use for either E. coli or Microcystin.

We did note some lily growth near the southern island but not a substantial quantity. Examples of exposed shoreline are also present in this report. It is usually suggested to follow construction best management practices when clearing areas near lakes to prevent shoreline erosion from becoming more significant. Waves from boaters or poor weather can cause excessive sediment loss into the lake and add nutrients as well as add to the shallow nature of the system.

Our next visitation will occur on 7/23/2026 and we will be returning to our usual Thursday biweekly visitations.