

A scenic photograph of Lake Lawrence with Mount St. Helens in the background. The mountain is covered in snow and partially obscured by a layer of clouds. The foreground shows a calm lake with a small wooden dock and a gazebo on the left, and a small boat with people on the right. The sky is blue with some light clouds.

Lake Lawrence
Lake Management District
In Person Meeting
Annual Meeting
24 September 2026
6:00-8:30 p.m.

AGENDA for 24 September 2026 Annual LMD Meeting

6:00 p.m. Meet & Greet – Deserts, Beverages served all evening

6:30 p.m. Call to Order/Introduction of Steering Committee, Invited Guests, & Volunteers

6:35 p.m. State of Lake Report

7:05 p.m. Guest Speaker - Kevin Hansen, Thurston County Hydrologist

7:50 p.m. General LMD Update

- 2026 Budget to date – Janice
- 2027 Proposed Budget - Janice
- Lake Levels/Temps – Frank
- RCW 36.61 Changes – Barry
- 2027 Outlook - Barry
 - Test Equipment Update
- Grant Funds – Kim Farnes
- Non-Profit 501C3 – Rick Nemes
- 2027 Meeting/Survey/Water Quality Monitoring Schedule

8:30 p.m. Adjourn



STEERING COMMITTEE

9/26/2026

- Lake Lawrence Community Club HOA (307 members = 5 SC members)
 - Barry Halverson
 - Isaac Smith
 - Jim Biehl
 - Janice Leitzke
 - Vacant
- Scenic Shores HOA (210 members = 4 SC members)
 - Steven Slater
 - Stephen Slater
 - Vacant
 - Vacant
- Wildaire HOA (60 members = 2 SC members)
 - Ken Stewart
 - Terry Stewart
- Lisa Lane HOA (6 HOA members = 1 SC member)
 - Kim Nelson
- Private Parcels West Lake Lawrence (79 Parcels = 2 SC members)
 - Vacant
 - Vacant
- Private Parcels East Lake Lawrence (21 Parcels = 1 SC member)
 - John Carpenter
- At Large Members – can be from any HOA or private parcel = 2 SC members)
 - Vacant
 - Vacant

STATE OF LAKE LAWRENCE POOR

- EXCESSIVE NUTRIENT LOADING HAS RESULTED IN EVER INCREASING TOXIC ALGAE BLOOMS AND A DESIGNATION AS A **EUTROPHIC LAKE** (DYING LAKE)
- **IN ACCORDANCE WITH THE CLEAN WATER ACT LAKE LAWRENCE IS CLASSIFIED AS CATEGORY 5 AND ON THE 303(d) LIST OF IMPAIRED WATER BODIES OF THE STATE.**
- IT IS ALSO LISTED AS A CATEGORY 5 (IMPAIRED) WATERBODY FOR TOTAL PHOSPHORUS AND HARMFUL ALGAE BLOOMS BY THE US ENVIRONMENTAL PROTECTION AGENCY (EPA)
- THE THURSTON COUNTY REGIONAL PLANNING COUNCIL REPORTED THAT LAKE LAWRENCE WATER QUALITY HAD DECLINED FROM “FAIR” (PRE-2019) TO “POOR” (SINCE 2020).

**IT IS THE INTENT OF YOUR LMD STEERING COMMITTEE TO
REVERSE THIS OVER THE NEXT 5 YEARS**

+

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Oct 2025 – Sep 2026 LMD HIGHLIGHTS

9/26/2026

- **LMD RENEWED** MAY 2026 FOR 35 YEARS – EXPIRES DEC 2061
- **LAKE LEVELS** – HIGHEST CONSISTENT LEVELS FOR DECADES – 6+ MONTHS OF OUTFLOW
- **FOUR TOXIC ALGAE BLOOMS THIS PERIOD** 21 OCT (2 WKS); 12 MAY (3 WKS); 14 JUN (4 WKS); 21 JUL (4 WKS)
- **CMP COMPLETED 5 JUNE 2026** – TOXIC ALGAE CONTRACTOR HIRED – FIRST TREATMENT MAR/APR 2027 – EXPECT FEWER HARMFUL BLOOMS AFTER APPLICATION, BUT NOT TOTAL ELIMINATION IN FIRST YEAR – WILL TAKE A COUPLE YEARS - **BE PATIENT**
- **PURCHASED TEST EQUIPMENT** WITH DONATED FUNDS (\$14K)
- **STOOD UP WATER QUALITY MONITORING TEAM** (CURT CLEAVELAND) – **NEED VOLUNTEERS**
- **2026 TREATMENTS:**
 - APR/MAY/JUN - CURLY PONDWEED MOSTLY CONTROLLED IN RESIDENTIAL AREAS – NOT IN CONSERVATION AREAS
 - MAY - YFI TREATMENT
 - HOA'S AND RESIDENTS RESPONSIBLE FOR THEIR AREAS
 - FWL NOT TREATED THIS YEAR
- **OTHER ACTIVITIES:**
 - **SENATE BILL S-5638** RCW 36.61 MOVING FORWARD
 - **SHALLOW WATER & LAKE RULE SIGNS** DESIGNED & INSTALLED
 - **ECOLOGY GRANT BEING SOUGHT** FOR 2027 TOXIC ALGAE MITIGATION
 - **NON-PROFIT BOARD STOOD UP** – (Rick Nemes, John Wilson, Gary Hofmann, and YOU) - **NEED VOLUNTEERS**
- **2027 – WILL CONTINUE CONTROL OF CURLY , YFI AND NUISANCE WEEDS**
- **2027 – IF SURVEYS WARRANT WILL SEEK TREATMENT OF FWL**
- **2027 – WILL AGGRESSIVELY PURSUE PHOSPHORUS MANAGEMENT PROGRAM**

VOLUNTEERS ARE THE HEARTBEAT OF OUR LMD

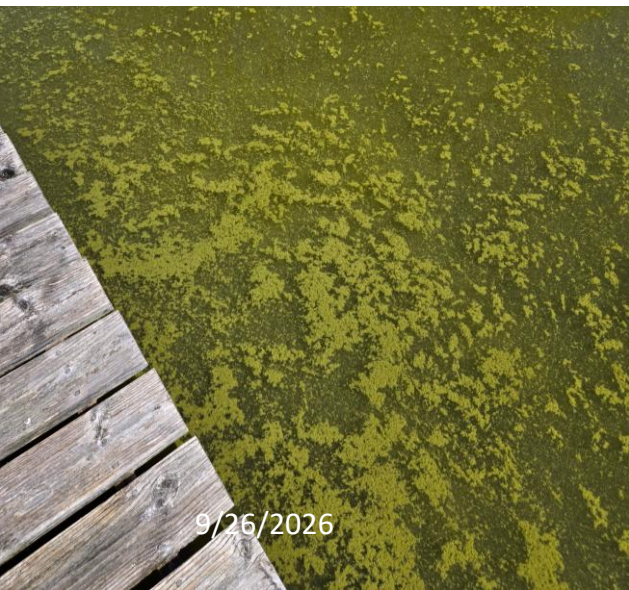
- Together our 37 volunteers have contributed more than 550 hours to making our lake cleaner and healthier
 - 250 HRS CLEANING AND MAINTAINING THE COUNTY PARK AND PUBLIC BOAT LAUNCH
 - 55 HRS ASSISTING COUNTY AGENCIES
 - 25 HRS WITH FLOATING ISLAND AND GOAT ISLAND RESTORATION
 - 220 HRS IN EDUCATION AND OUTREACH (MEETINGS, DIRECT MAIL, YOUTUBE CHANNEL, WEBSITE, WATER LEVEL AND LAKE TEMPERATURE MONITORING)

ACCORDING TO VOLUNTEER CALCULATOR

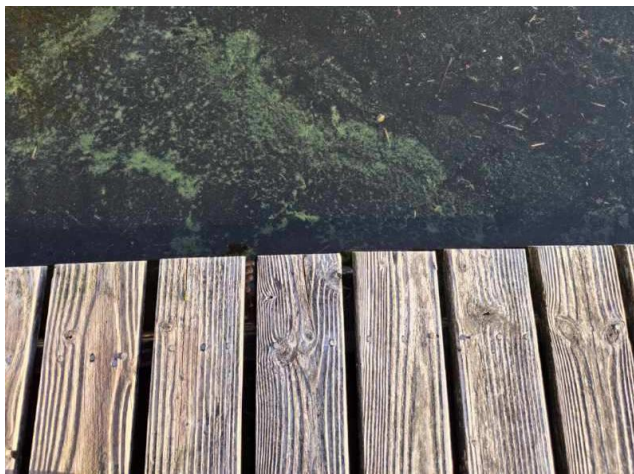
<https://www.serve.love/blog/calculate-volunteer-value-grant-applications/>

THAT EQUATES TO A VALUE OF \$22,900+ TO OUR LAKE AND COMMUNITY





9/26/2026



Oct 2025 – Sep 2026 Toxic Algae Report

- 21 Oct 2025 – Wildaire Community Park – reported to EH 10.9 ug/L

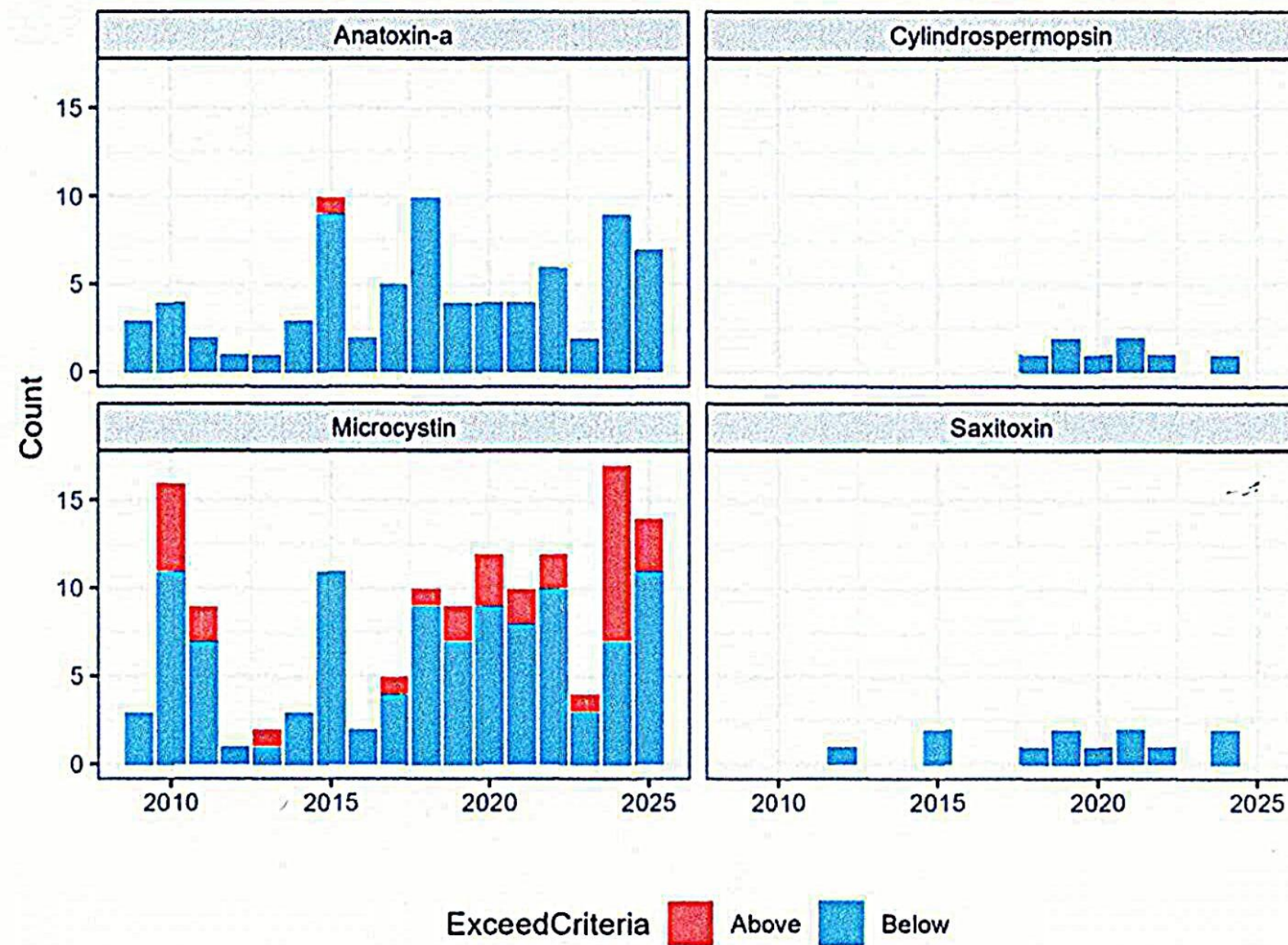
WARNING IMPOSED

- 4 Nov 2026 – WARNING Lifted
- 4 Feb 2026 – Wildaire Community Park – reported to EH
- 2 Mar 2026 – Wildaire Community Park – Reported to EH
- Test Taken at WDFW Boat Launch – Below threshold
- 5 Apr 2026 – Lake Point Dr & Wildaire Community Park – Reported to EH
- Testing showed only 0.8 ug/L well below warning requirement.
- 20 Apr 2026 – Wildaire Community Park – Reported to EH
- 21 Apr 26 - Test Taken at Wildaire Park. Tests showed toxic algae below state guidelines.
- 5 April 2026 – Wildaire Community Park
-



2026 Toxic Algae Report (cont.)

- 28 Apr 2026 – WDFW Boat Launch –Reported to EH
- 5 May 2026 – Samples taken by EH – Results 1.8 ug/L
- 12 May 2026 – **WARNING IMPOSED** - Samples taken by EH from West Lake
- Lawrence near LLCC Little Park – Results 45.9 ug/L
- 29 May 2026 – WARNING lifted
- 14 Jun 2026 – **WARNING IMPOSED** – 16.5 ug/L
- 13 July 2026 – WARNING lifted
- 21 July 2026 – **WARNING IMPOSED** – 9.7 ug/L
- 14 Aug 2026 – WARNING lifted



Year	Days with Warning or Danger
2010	59
2011	35
2012	0
2013	16
2014	0
2015	35
2016	0
2017	13
2018	13
2019	19
2020	35
2021	29
2022	19
2023	13
2024	147 (includes blooms going through Feb 2025)
2025	28

How Are We Going To Fix The Problem?

- COA #4 Selected by SC on 14 May 2026 LMD Mtg with COA #5 to be considered if COA #4 does not work out
 - COA #4 - Use Iron (ZVI) – a natural mineral to mitigate near term Harmful Algae Blooms (HABs) and work to secure funding for OST over next 5 years
 - COA #5 - If COA 4 does not prove successful (either through sequestering blooms using ZVI or securing funding) move to COA 1
 - First application Feb/Mar 2027 (~\$300k)
- Secure OST funding through:
 - Ecology Grants – LMD submits for these
 - State Legislative Appropriation – Will BoCC support LMD initiative to petition State Legislature for \$2.7 M appropriation to fund this option over a three-year period?
 - Year One (\$220k) Study, Design, and Permitting
 - Year Two (\$280k) Construction of infrastructure and Procurement
 - Year Three (\$2.2m) Purchase and installation of equipment
 - Lake Association (501C3) – Donations from large corporate donors – need lead (Three members have stood up and volunteered for this board – need five)

**MOVE FORWARD NOW WITH ZVI TO GET HABs UNDER CONTROL AND
SIMULTANEOUSLY STUDY OST OVER NEXT 5 YEARS TO ENSURE OPERATIONAL
FEASIBILITY, RELIABILITY, AND EFFICACY.**

Long Lake

County

Another Option

TESTING EQUIPMENT/COSTS

If we do our own testing it will save us approximately \$8-10,000 per phosphorus application.

YSI xylem 1700/1725 Brannum Lane, Yellow Springs, OH 45387-1107 Email: ysi.info@xylem.com Phone: 1-877-726-0975			Fondriest Environmental, Inc., Website: www.fondriest.com/ysi-exo1 ; phone: 888-426-2151			Hanna Instruments (https://hannainst.com/) Tech Support: tech@hannaist.com		
Part #	Test Equipment	Cost	Part #	Test Equipment	Cost	Part #	Test Equipment	Cost
626870-2	ProDSS Handheld with GPS	\$2,982	599960	EXO handheld display	\$3,300	HI98494	Portable Multiparameter pH/EC/OPDO Meter with Bluetooth, Hardcase Field Kit and Calibration equipment and 10 Meter Cable	\$3,449.99
626910	ProDSS 4-Port Cable w/ shallow sensor 10 meter length	\$3,700	599501-01	EX01 multi-parameter quality sonde with 4 sensor ports, 10 m depth sensor	\$5,900		GPS	\$500.00
626900	ODO with pre-installed sensor cap	\$1,269	599100-01	EXO optical dissolved oxygen sensor	\$2,300.00		Not recommended	
626902	Conductivity and temperature	\$893.10	599870	EXO conductivity & temperature sensor	\$1,150			
626903	pH with pre-installed sensor module	\$570	577601	EXO guarded pH sensor	\$785			
626946	Large, hard-sided carrying case	\$521	599020-01	Case	\$680			
TOTAL:		\$9,935			\$14,115			
	Calibration Requirements			Calibration Requirements			Calibration Requirements	
060907	Conductivity calibrator , 1000 umhos/cm (8ea, pint)	\$184	060907	Conductivity calibrator , 1000 umhos/cm	\$184	HI7004C	pH 4 Calibration	\$18.99
603824	2 pints each of 4, 7, and 10 pH buffers	\$107	603824	2 pints each of 4, 7, and 10 pH buffers	\$107	HI7007C	pH 7 Calibration	\$18.99
						HI7010C	pH 10 Calibration	\$18.99
						HI9828-25	Quick Calibration Standard 500 mL Bottle	\$57.99
TOTAL:		\$291	TOTAL:		\$291			\$114.96
	Other Testing Equipment			Other Testing Equipment			Other Testing Equipment	
Wildco Instruments Wildlive Supply Company 86475 Gene Lasserne Blvd, Yulee, FL 32097 Website: www.wildco.com Phone: 800-799-8301			Wildco Instruments Wildlive Supply Company 86475 Gene Lasserne Blvd, Yulee, FL 32097 Website: www.wildco.com Phone: 800-799-8301			Wildco Instruments Wildlive Supply Company 86475 Gene Lasserne Blvd, Yulee, FL 32097 Website: www.wildco.com Phone: 800-799-8301		
UX-05486-00	Wildco 1510-C20 Kemmerer Water Sampler, 3 to 600' depth, Acrylic, 1.2L	\$778	UX-05486-00	Wildco 1510-C20 Kemmerer Water Sampler, 3 to 600' depth, Acrylic, 1.2L	\$778	UX-05486-00	Wildco 1510-C20 Kemmerer Water Sampler, 3 to 600' depth, Acrylic, 1.2L	\$778
	AMAZON.COM			AMAZON.COM			AMAZON.COM	
BUWUSMU	7.87 Inch Plastic Secchi Disk Set - With black and white quadrants, steel cone, holding line, and 30 meter tape measure for clarity measurements	\$26.99	BUWUSMU	7.87 Inch Plastic Secchi Disk Set - With black and white quadrants, steel cone, holding line, and 30 meter tape measure for clarity measurements	\$26.99	BUWUSMU	7.87 Inch Plastic Secchi Disk Set - With black and white quadrants, steel cone, holding line, and 30 meter tape measure for clarity measurements	\$26.99
	Honda 9.9hp Portable 4-Stroke Outboard Motor with fuel tank and fuel line	\$3,000		Honda 9.9hp Portable 4-Stroke Outboard Motor with fuel tank and fuel line	\$3,000		Honda 9.9hp Portable 4-Stroke Outboard Motor with fuel tank and fuel line	\$3,000
	Hanna Instruments (https://hannainst.com/) Tech Support: tech@hannaist.com			Hanna Instruments (https://hannainst.com/) Tech Support: tech@hannaist.com			Hanna Instruments (https://hannainst.com/) Tech Support: tech@hannaist.com	
HI97717C	Phosphate Photometer Kit (includes the CAL Check Standards) for the most economical option for testing	\$599.99	HI97717C	Phosphate Photometer Kit (includes the CAL Check Standards) for the most economical option for testing	\$599.99	HI97717C	Phosphate Photometer Kit (includes the CAL Check Standards) for the most economical option for testing	\$599.99
HI93717-01	Phosphate HR Reagents (100 Tests)	\$38.99	HI93717-01	Phosphate HR Reagents (100 Tests)	\$38.99	HI93717-01	Phosphate HR Reagents (100 Tests)	\$38.99
TOTALS (tax not included):		\$14,670.00	OR		\$19,140.97			\$8,623.88
	tax	\$1,394.00		tax	\$1,819.00		Tax	\$810.00
Totals including Tax		\$16,064.00			\$20,959.97			\$9,433.88

Low End = \$9,500 High End = \$21,000



TEST EQUIPMENT UPDATE

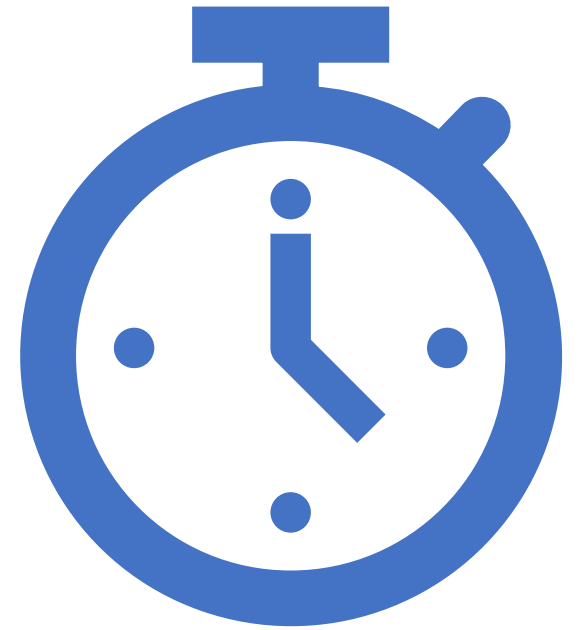


- All test equipment has been purchased and paid for
- Equipment Costs = \$13,589.25
- Money Donations = \$13,589.25
- Equipment Donations
 - 12' Aluminum Lund Boat with all accessories
 - GPS
 - Styrofoam Coolers, Ice Packs, and shipping boxes



QUESTIONS

5 MINUTE BREAK
AND BE BACK IN
YOUR SEATS FOR
OUR QUEST
SPEAKER



WHAT IS ON THE LAKE LAWRENCE WEBSITE?

- YOU CAN ACCESS OUR WEBSITE BY GOING TO THIS URL:

<https://www.lakelawrencelakemanagementdistrict.com>

- Or scanning this QR Code:
- NOW WASN'T THAT EASY?



September 24, 2026, Annual Meeting

Guest Speaker

- Guest Speaker: Kevin Hansen, Thurston County Hydrologist
- Talking Points:
 - Hydrology of Lake Lawrence and surrounding area
 - Aquifers in and around area and how they impact our lake
 - Soil composition around Lake Lawrence and how that impacts septic system flow into the lake
 - Test results from local wells/public wells/water systems, what those tests show (Phosphates, etc.) in the water that may impact water quality at the lake
 - Recycle time for lake water



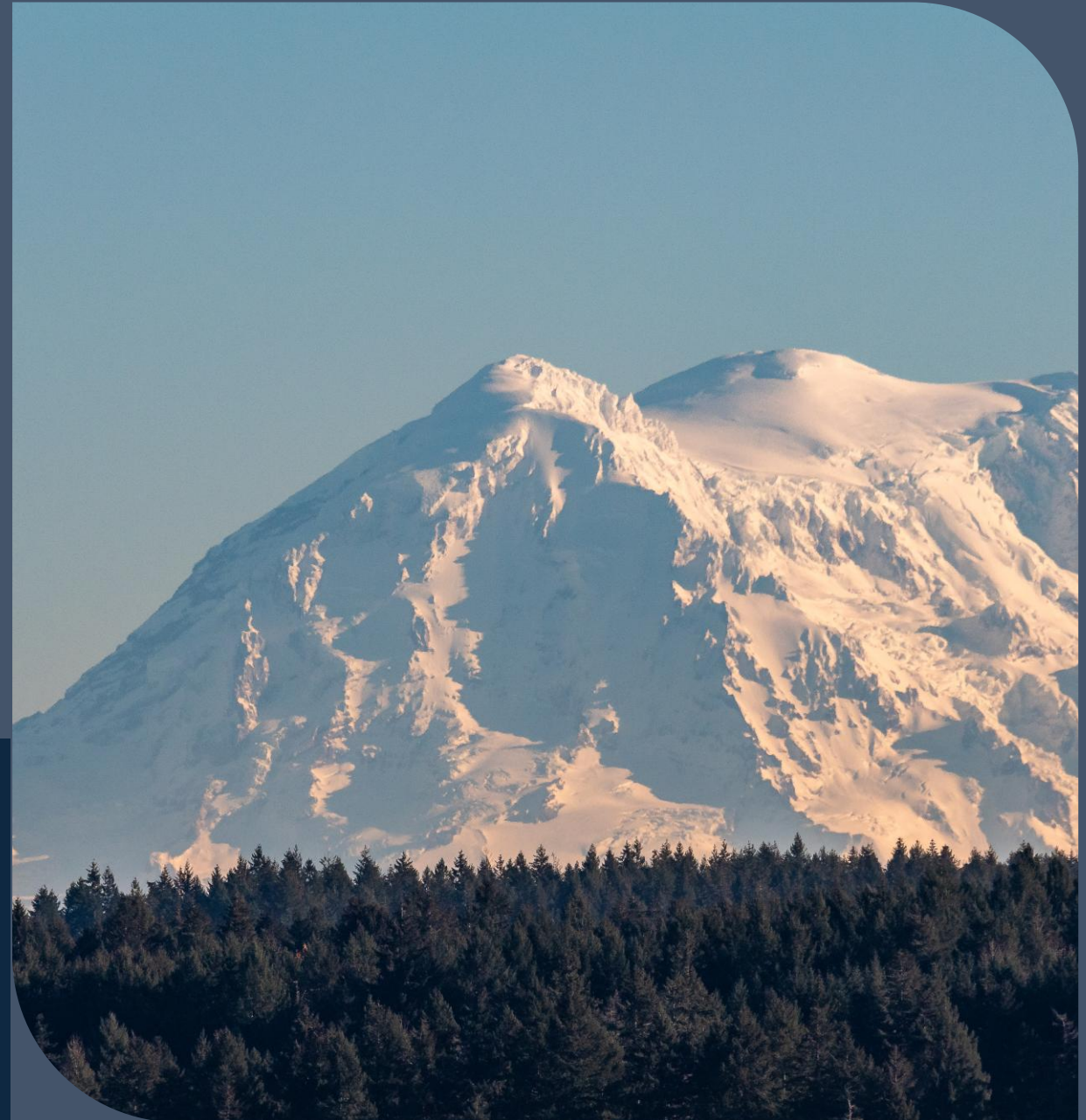
Lake Lawrence Hydrology

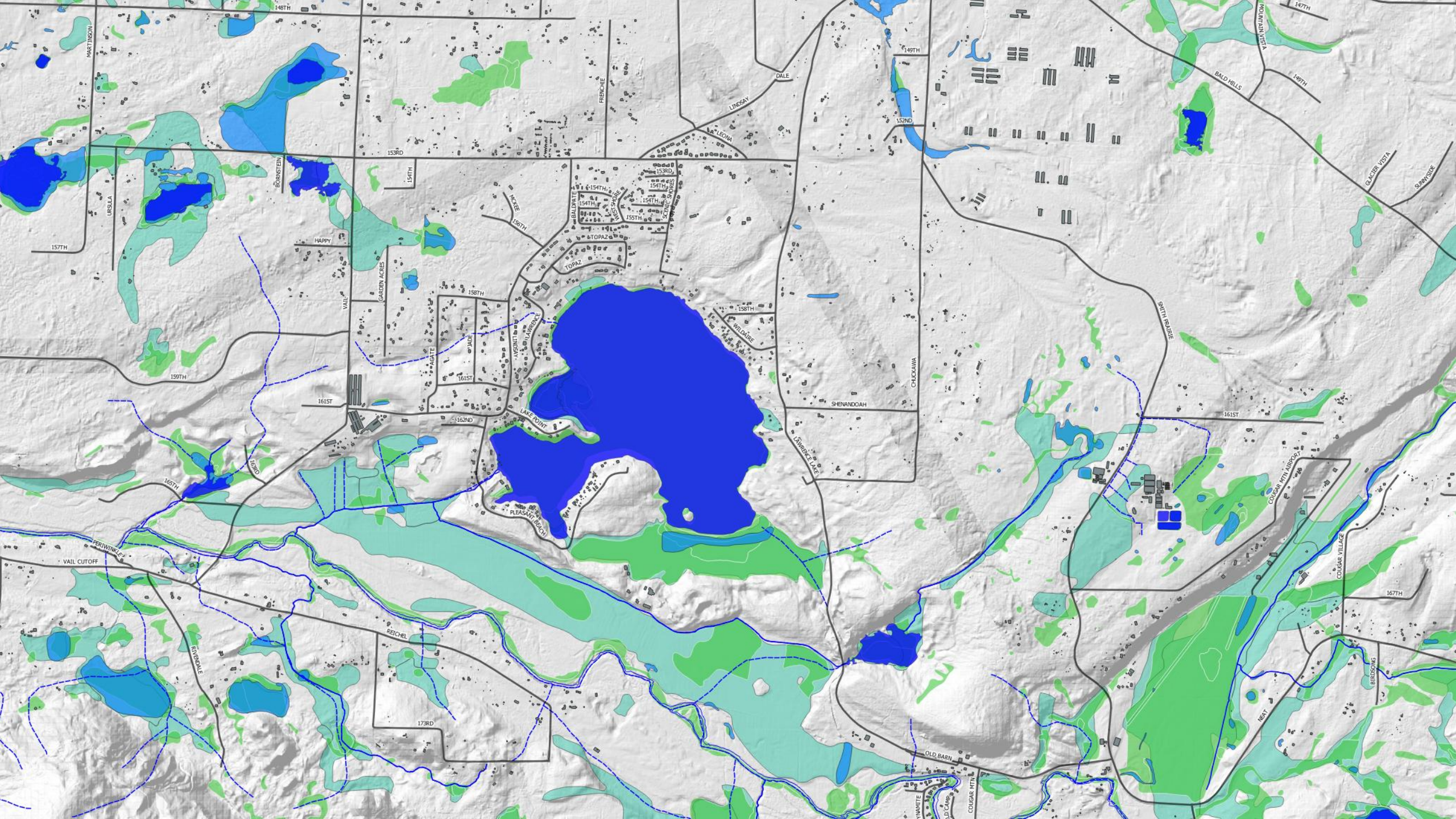
Lake Lawrence LMD

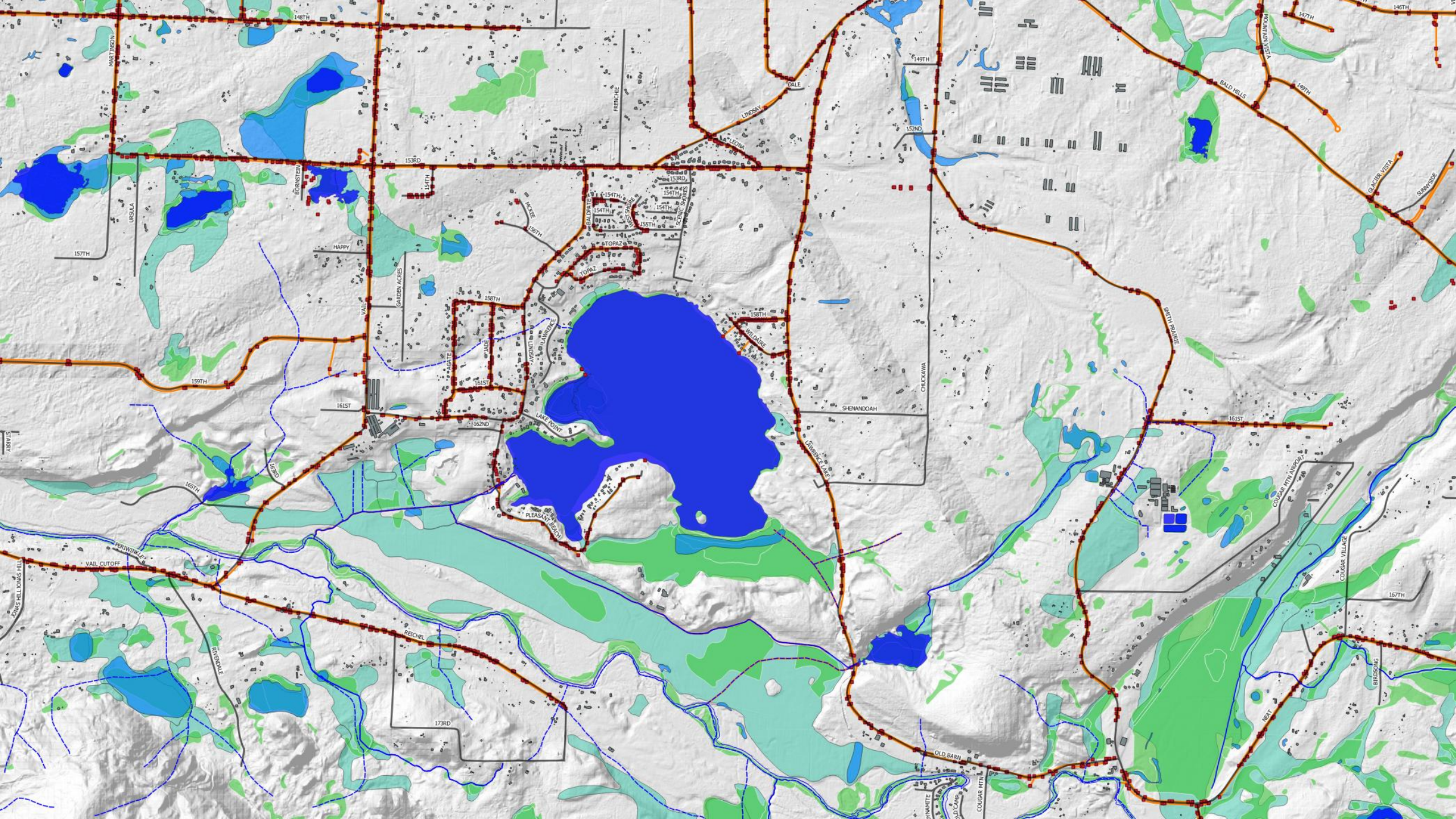
September 24th, 2026

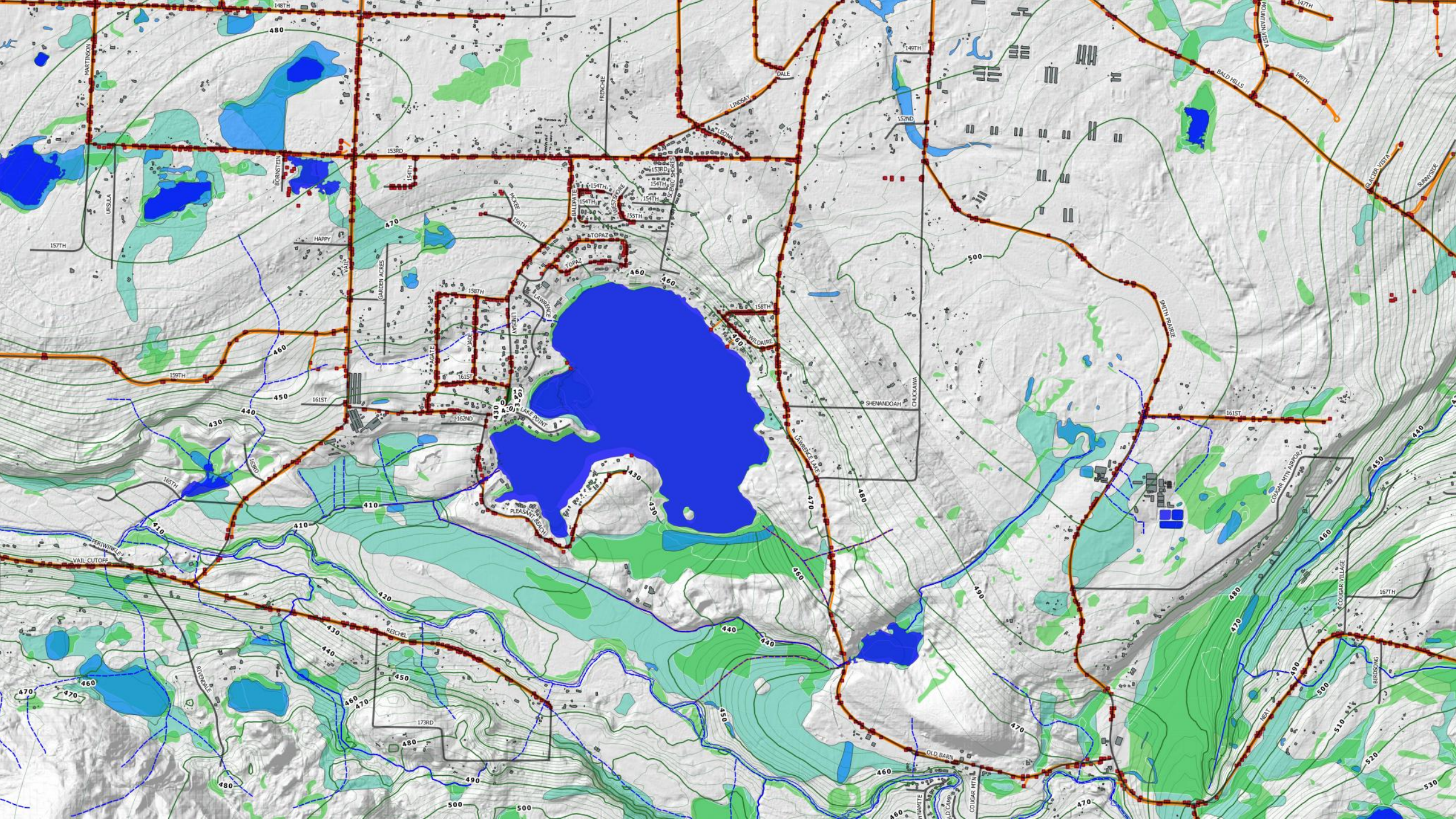
Kevin Hansen, LHg.

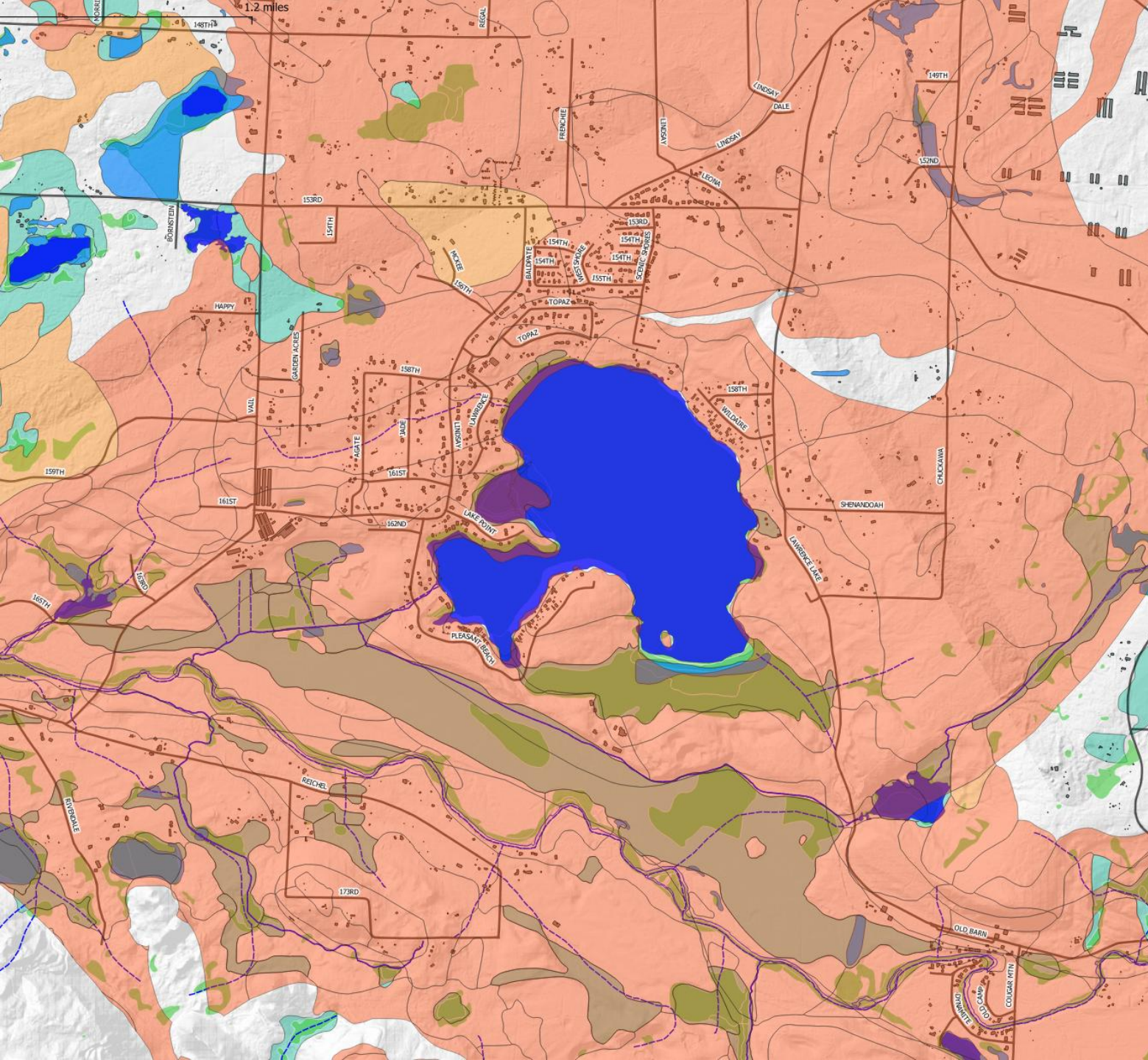
Thurston County Hydrogeologist





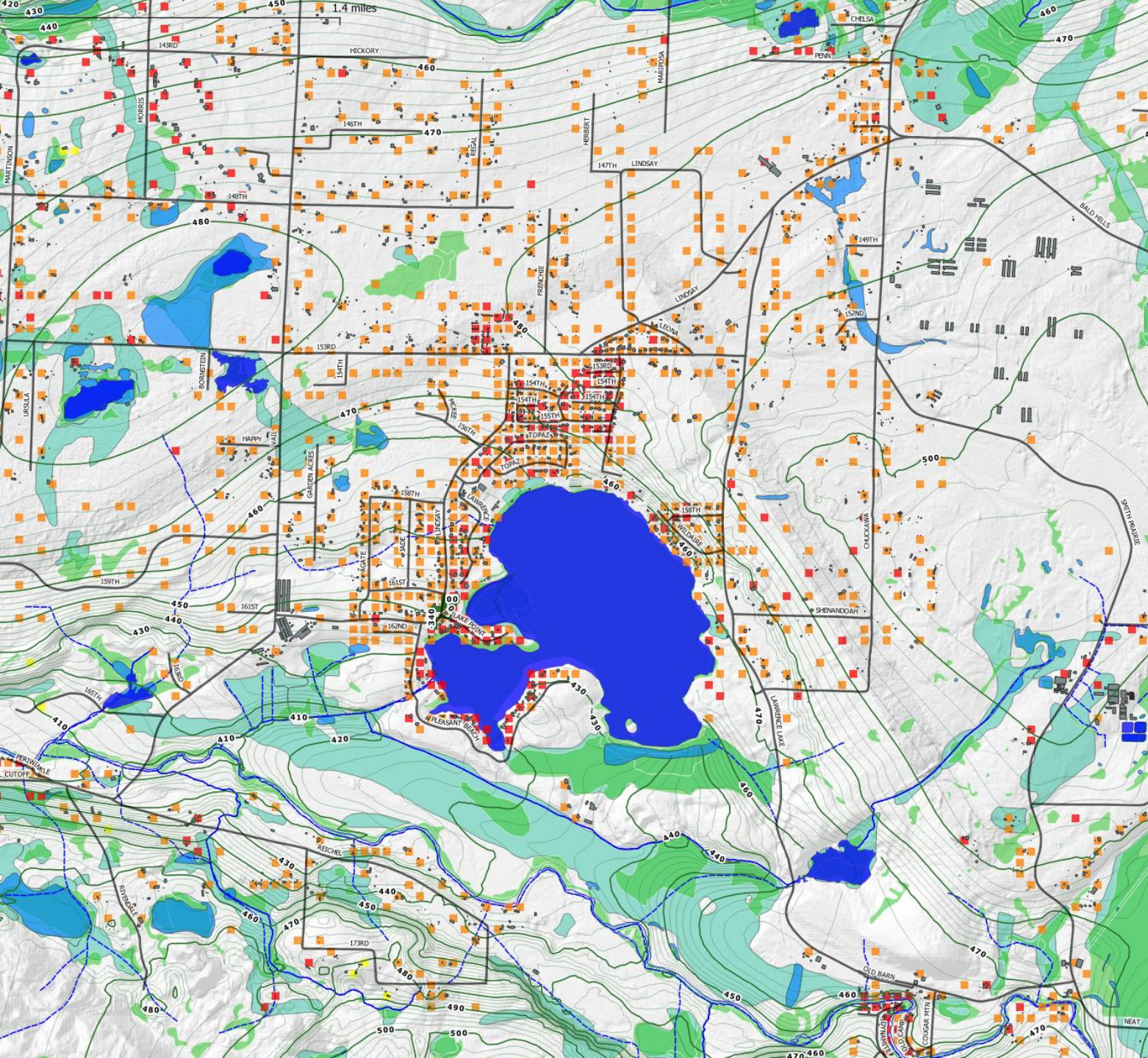






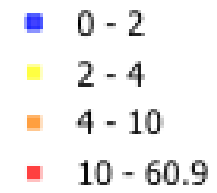
CARA soils

- Critical Aquifer Recharge Area (CARA)
- “my soil is gravel...so why won't it perk?
- An expensive wastewater question

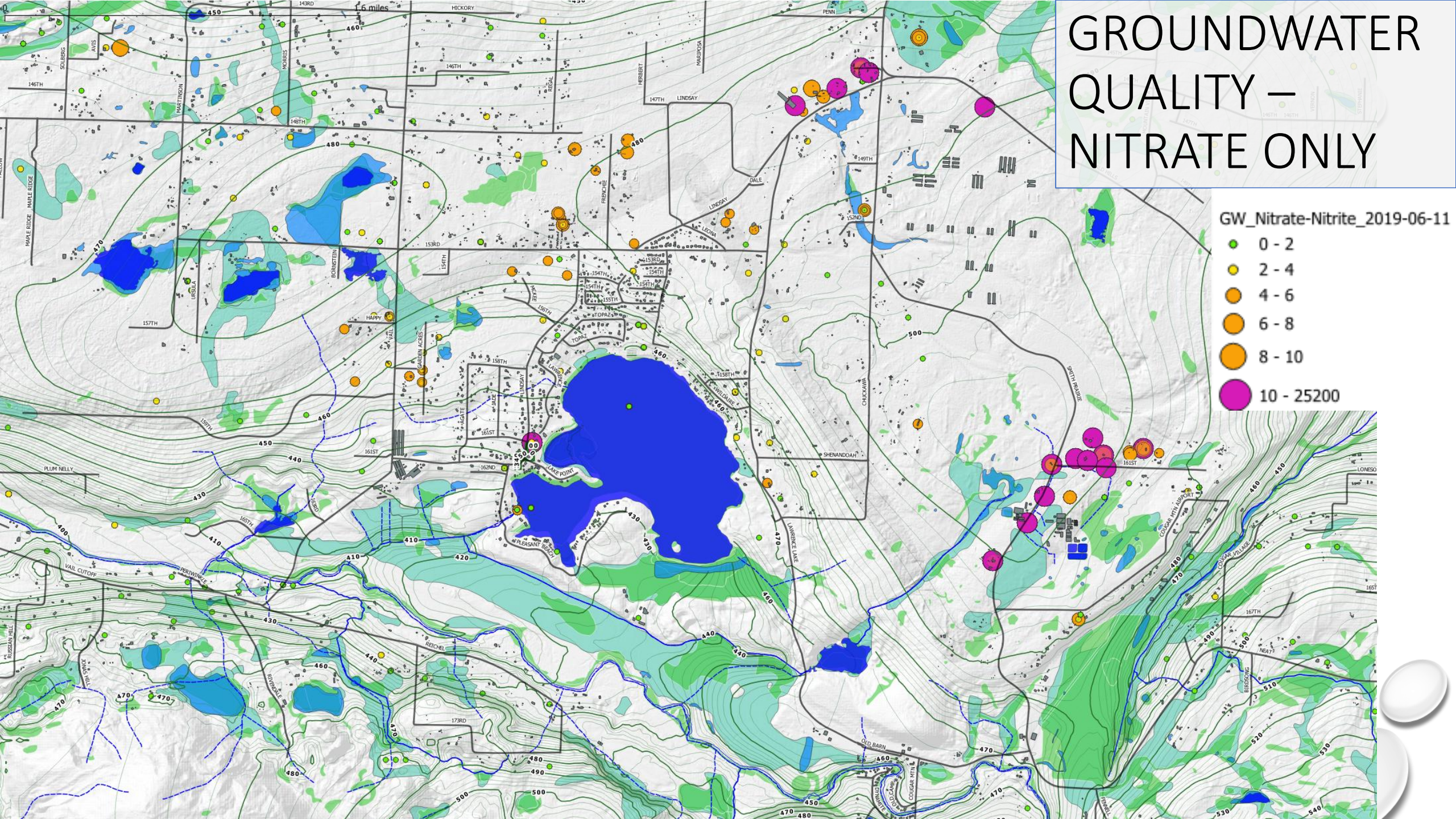


SEPTIC WASTEWATER LOADING

Nitrate_Loading_from_septics_only_2022-03-28_v5

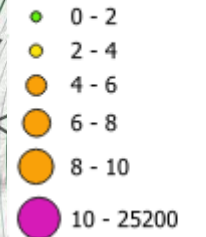


GROUNDWATER QUALITY – NITRATE ONLY

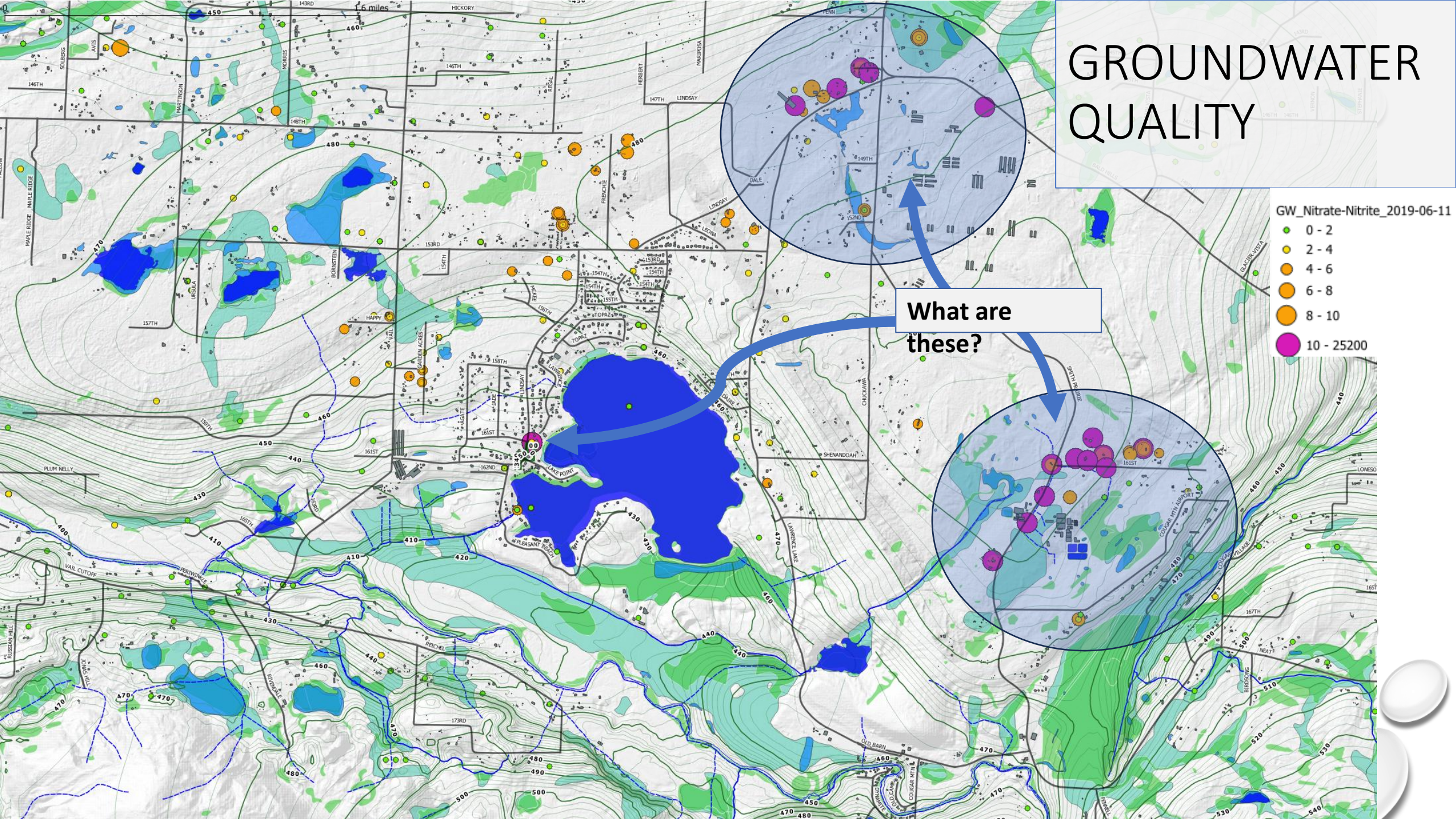


GROUNDWATER QUALITY

GW_Nitrate-Nitrite_2019-06-11



What are
these?



Division of Environmental Health
Office of Drinking Water

Note this is Lake
Lawrence water, but not
Scenic Shores water

Help

Individual System View - LAKE LAWRENCE - Water System Id - 22572

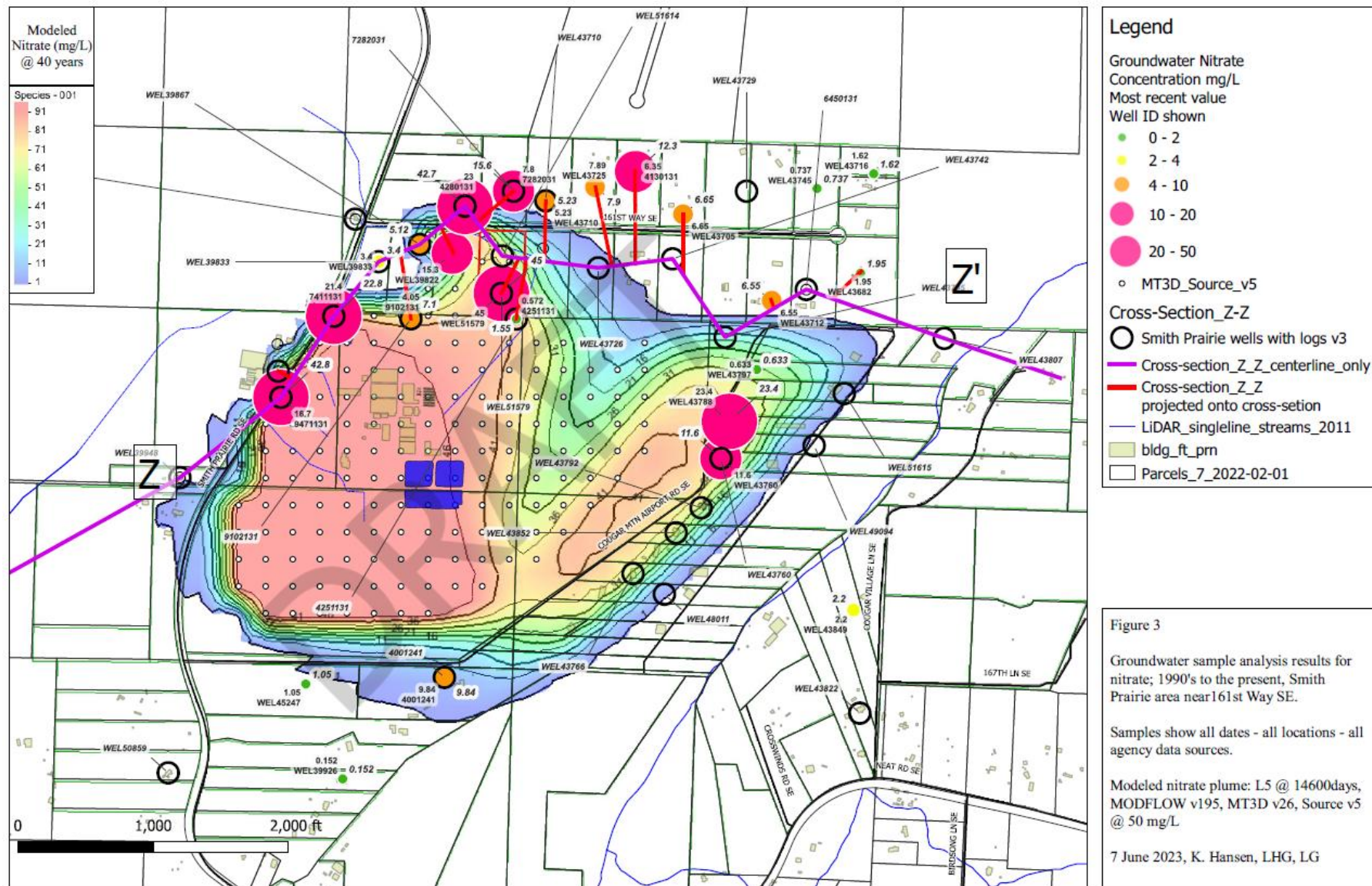
		Compliance Actions		Operating Permits		Operators		Reports		Water Use Efficiency	
General Information			Source Information		Samples			Exceedances		Water Quality Monitoring Schedule	
Type	Source▲	DOE Source	Collect Date	Analyte	Result	Quantity	Units	Test Panel	Analyte Group	Sample Number	Lab Number
P	Distribution		8/6/2026	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	13909	144
P	Distribution		8/6/2026	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	13910	144
P	Distribution		8/6/2026	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	13906	144
P	Distribution		8/4/2026	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	07807	144
P	Distribution		8/6/2024	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	77611	010
P	Distribution		9/21/2023	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	28405	010
P	Distribution		9/21/2023	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	28401	010
P	Distribution		9/21/2023	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	28404	010
P	Distribution		9/19/2023	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	19209	010
P	Distribution		8/5/2013	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	55556	089
P	Distribution		6/4/2013	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	49337	089
P	Distribution		10/15/2012	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	26908	089
P	Distribution		10/15/2012	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	26905	089
P	Distribution		10/15/2012	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	26907	089
P	Distribution		10/15/2012	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	26906	089
P	Distribution		10/9/2012	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	26365	089
P	Distribution		4/12/2011	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	71836	089
P	Distribution		4/12/2011	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	71837	089
P	Distribution		4/7/2011	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	71290	089
P	Distribution		11/9/2010	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	57363	089
P	Distribution		11/9/2010	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	57364	089
P	Distribution		11/4/2010	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	56845	089
P	Distribution		7/10/2006	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	02777	089
P	Distribution		7/10/2006	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	02775	089
P	Distribution		7/10/2006	TOTAL COLIFORM	Present		/100ml	COLI_AP	MICRO	02778	089

Records 1 - 25 of 30

Export CSV

DOH Response to coliform bacterial detections

1. Lake Lawrence had several total coliform samples in August 2026
2. the 'routine' monthly sample and each 'repeat' sample in distribution were total coliform positive.
3. The well samples were absent coliform.
4. This event required that the system provide a Level 1 assessment, which Washington Water Service sent to DOH on September 4th, 2026.
5. The assessment was thorough and complete
6. The facilities, operations and maintenance were found to be in great condition.
7. Jimmie Jensen at WA Water is listed as the contact person



Lake Lawrence and other Lakes Across the County are often affected by Hazardous Algae Blooms (HAB_s)

Lake Lawrence – Microcystin 45.9 ug/L, May 14th 2026

**Thurston County Public Health and Social Services
Environmental Health Division**

Lake Lawrence- ALGAE ADVISORY ISSUED

5/14/2026

Staff have received lab results for the algae bloom sample taken at **Lake Lawrence on 5/12/2026.**

Microcystin: **45.9 µg/L which is above the state recreational guideline of 8.0 µg/L.**

Staff will collect one sample per week until toxin levels are below regulatory guidelines for two consecutive weeks. Notifications will be sent when samples are collected and when results are available.

When there is an algae bloom present or you suspect that an algae bloom is occurring, we recommend extra precautions be taken to avoid the health risks posed by potential toxins.

- Do not drink the lake water.

QUICK LINKS

- [Swimming in Thurston County Water](#)
- [Washing State Department Green](#)
- [Find Your Data](#)
- [Toxic Green Blooms](#)

Clear Lake – Microcystin 77.0 ug/L, Sept. 21st 2026

**Thurston County Public Health and Social Services
Environmental Health Division**

Clear Lake - ALGAE ADVISORY ISSUED

9/21/2026

Staff have received lab results for the algae bloom sample taken at **Clear Lake.**

Microcystin: **77.0 µg/L which is above the state recreational guideline of 8.0 µg/L.**

Staff will collect one sample per week until toxin levels are below regulatory guidelines for two consecutive weeks. Notifications will be sent when samples are collected and when results are available.

When there is an algae bloom present or you suspect that an algae bloom is occurring, we recommend extra precautions be taken to avoid the health risks posed by potential toxins.

- Do not drink the lake water.
- Avoid contact with water containing algae. Do not swim or water ski.

QUICK LINKS

- [Swimming in Thurston County Water](#)
- [Washing State Department Green](#)
- [Find Your Data](#)
- [Toxic Green Blooms](#)

Offutt Lake – Microcystin 10.5 ug/L, Sept. 21st 2026

**Thurston County Public Health and Social Services
Environmental Health Division**

Offutt Lake - ALGAE ADVISORY ISSUED

9/21/2026

Staff have received lab results for the algae bloom sample taken at **Offutt Lake.**

Microcystin: **10.5 µg/L which is above the state recreational guideline of 8.0 µg/L.**

Staff will collect one sample per week until toxin levels are below regulatory guidelines for two consecutive weeks. Notifications will be sent when samples are collected and when results are available.

When there is an algae bloom present or you suspect that an algae bloom is occurring, we recommend extra precautions be taken to avoid the health risks posed by potential toxins.

- Do not drink the lake water.
- Avoid contact with water containing algae. Do not swim or water ski.

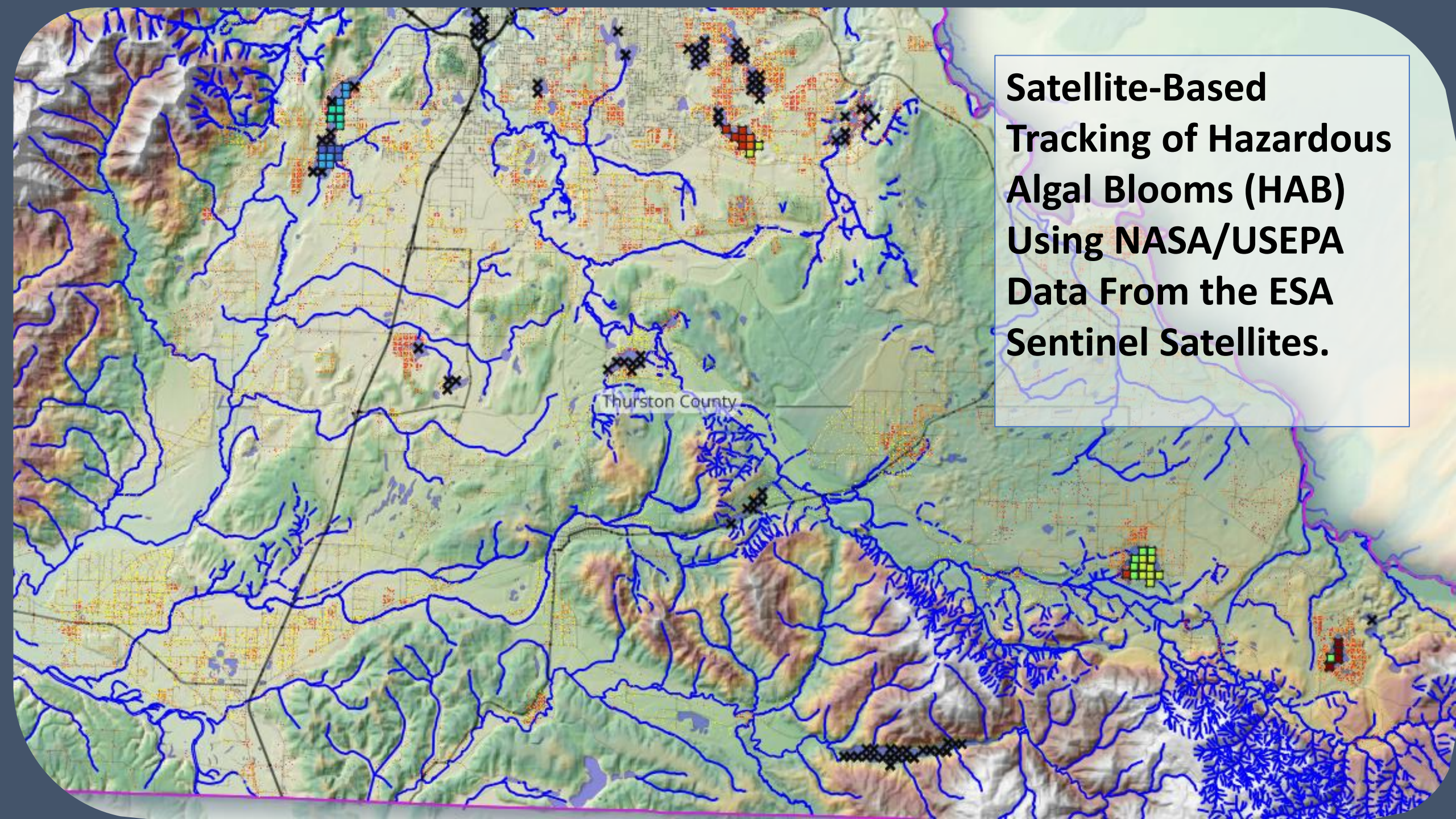
QUICK LINKS

- [Swimming in Thurston County Water](#)
- [Washing State Department Green](#)
- [Find Your Data](#)
- [Toxic Green Blooms](#)

Wikipedia: “Microcystins—or cyanoginosins—are a class of [cyanotoxins](#), which are [toxins](#) produced by [cyanobacteria](#), sometimes known as blue-green algae...Cyanobacteria can produce microcystins in large quantities during [algal blooms](#) which then pose a major threat to drinking and irrigation water supplies, and the environment at large.”

**Satellite-Based
Tracking of Hazardous
Algal Blooms (HAB)
Using NASA/USEPA
Data From the ESA
Sentinel Satellites.**

Thurston County

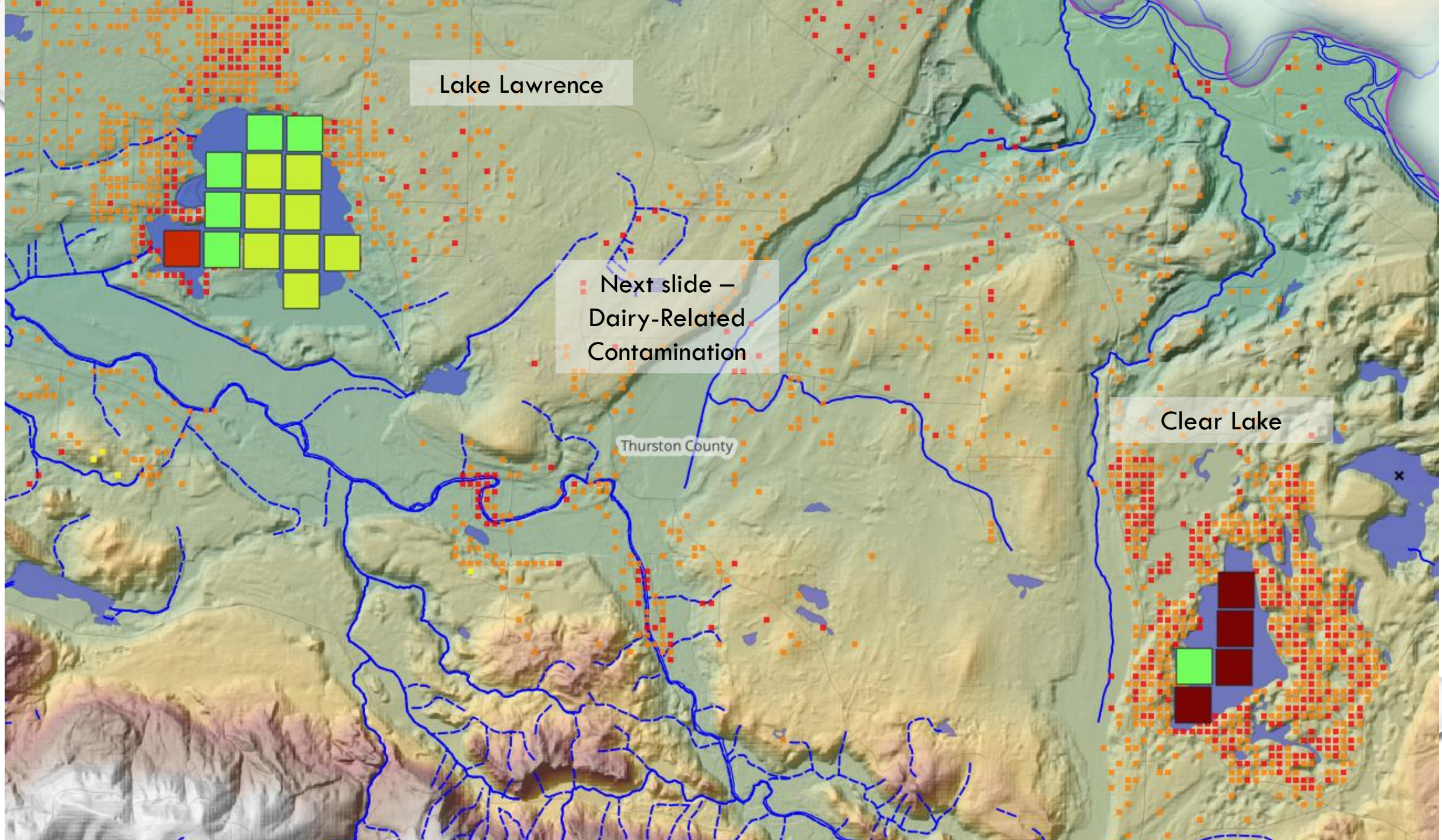


Lake Lawrence

Next slide –
Dairy-Related
Contamination

Thurston County

Clear Lake





New water Dashboards

Google: “Thurston water dashboards”



Welcome to the Water & Climate Planning Dashboard

We study water, track climate trends, and share reliable data to help decision-makers, businesses, and residents make smart choices for the future. As we work to support sustainable growth that protects land, water, and our shared future, we're helping build a healthier environment, a stronger economy, and more vibrant communities for generations to come!



Streams Water Quality Dashboard

The Streams Water Quality Dashboard provides detailed scientific information about ground water in Thurston County

» Community Planning and Economic Development



Lakes Water Quality Dashboard

The Lakes Water Quality Dashboard provides detailed scientific information about surface water in Thurston County

» Community Planning



Rainfall and Lake Levels Dashboard

Thurston County monitors certain water levels around the county and makes the information available in the Water Levels Dashboard - find information about monitored river, lake, stream and Puget



Thurston County Lakes Water Quality Data Dashboard

ap

Summary of Trophic State Index

Summary of Water Quality Trends

Lake Trophic State Index

Data Visualization and Trends

Data Download

Disclaimer

Map of Lake Monitoring Stations

Below are all stations, active and inactive, used to monitor water quality in Thurston County. To learn more about a station, click on the icon and follow the prompts to various data tabs.



Trends

Lake: Lawrence Lake @ Big Basin (▼)

Monthly Lake Water Quality Profiles

[Long-term Trend](#)

Select Year to Highlight

2025

Select Parameter

Total Phosphorus

Select Month(s) for Profile Plots

1

12

1

3

5

7

9

11

12

Select Year Range for Trend

1998

2025

1998

2003

2009

2014

2020

2025

Select Depth Range for Trend

0

9.23

0

0.9

1.8

2.8

3.7

4.6

5.5

6.5

7.4

8.3

9.23

☐ Correct for Autocorrelation?
(requires 10+ years data)?

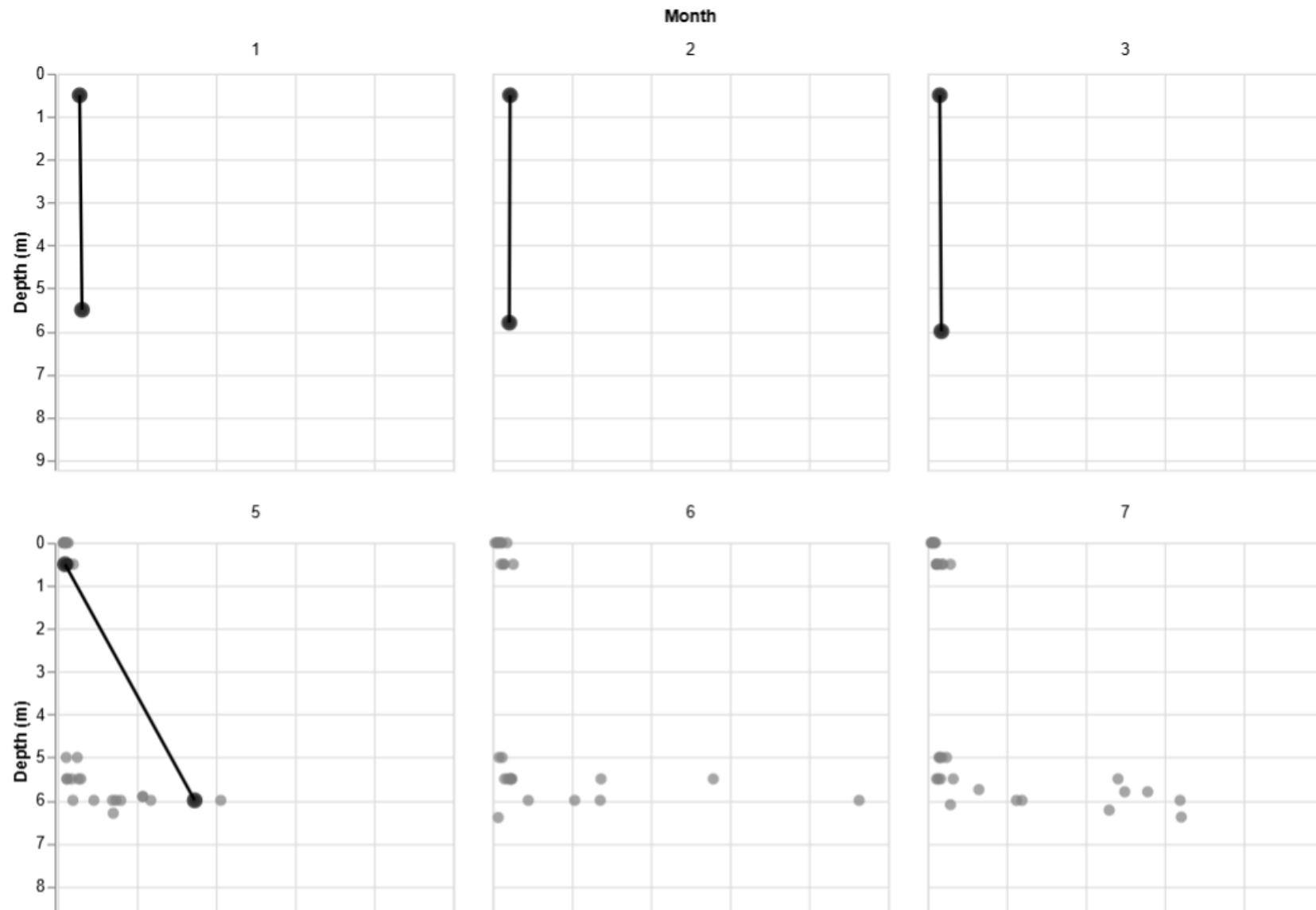
Select Seasons for Mann-Kendall Test

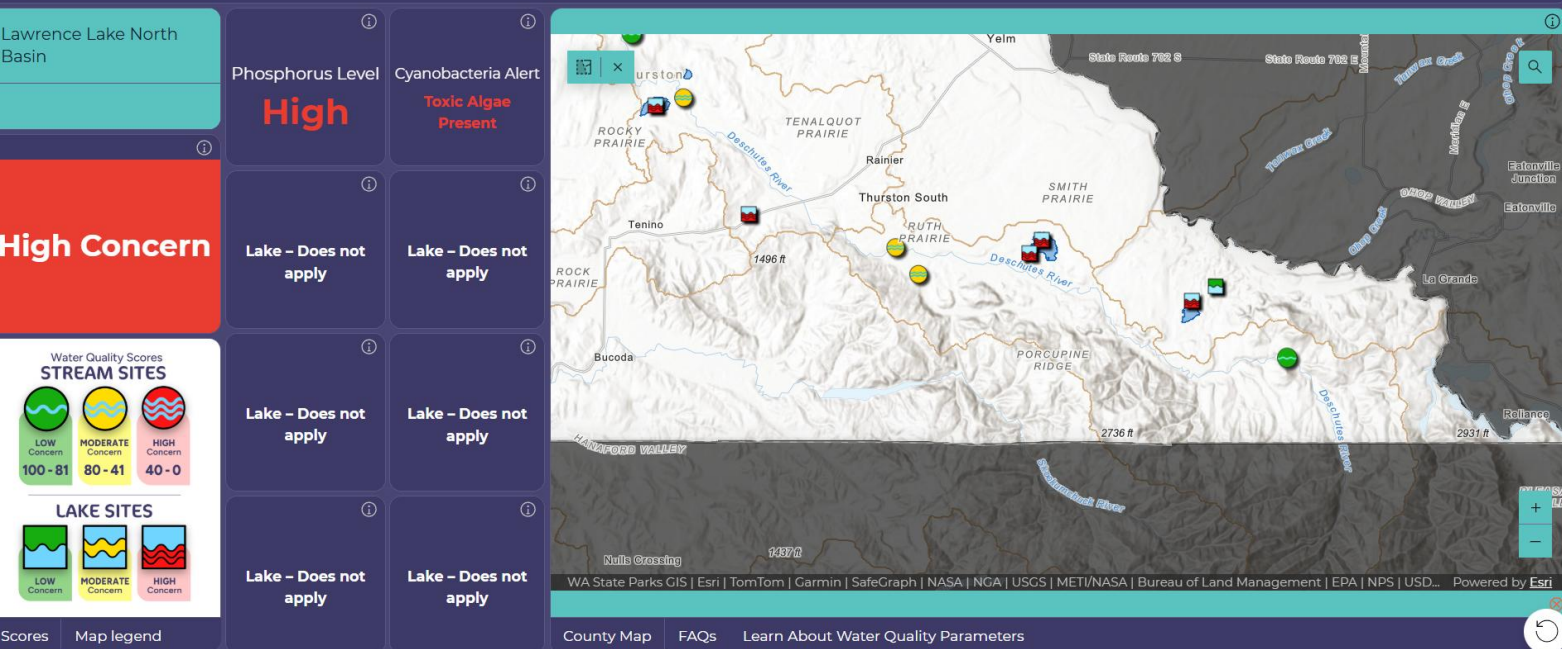
All

Log-scale?



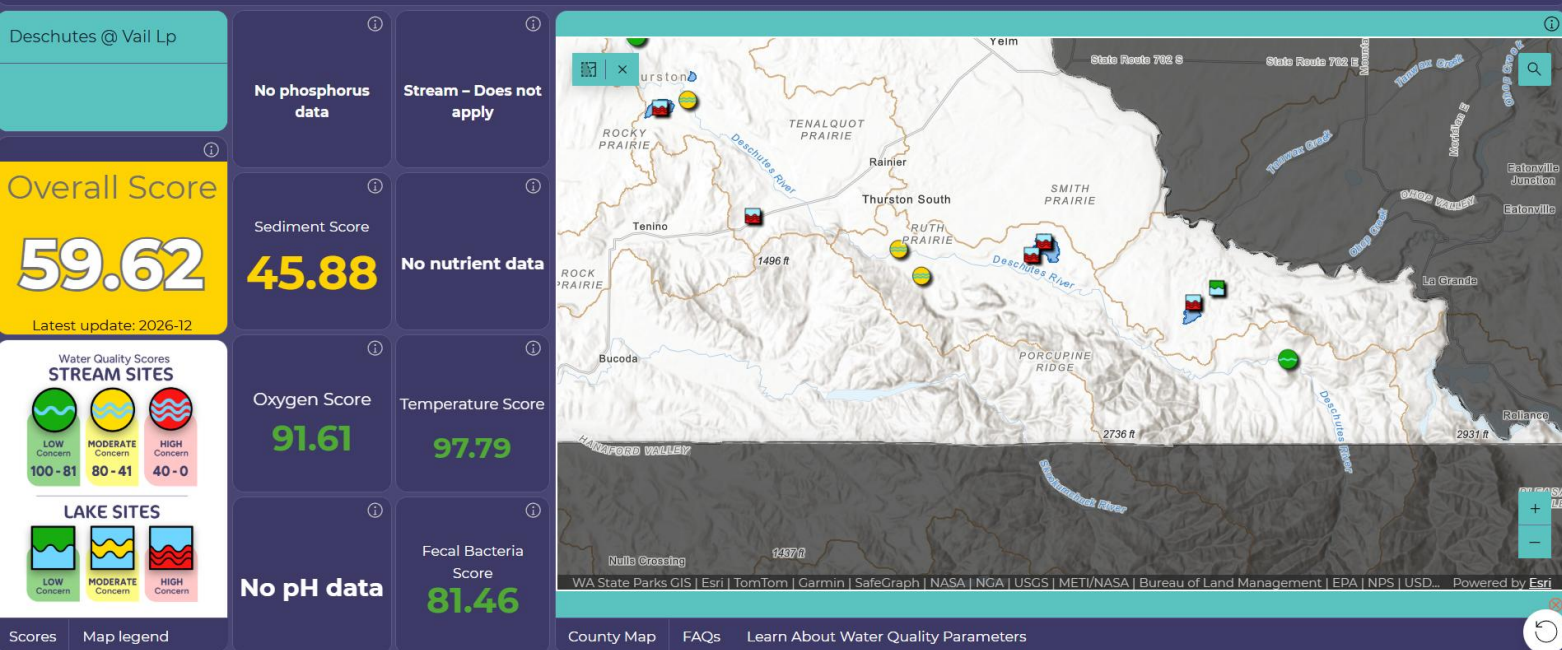
Monthly Lake Water Quality Profiles





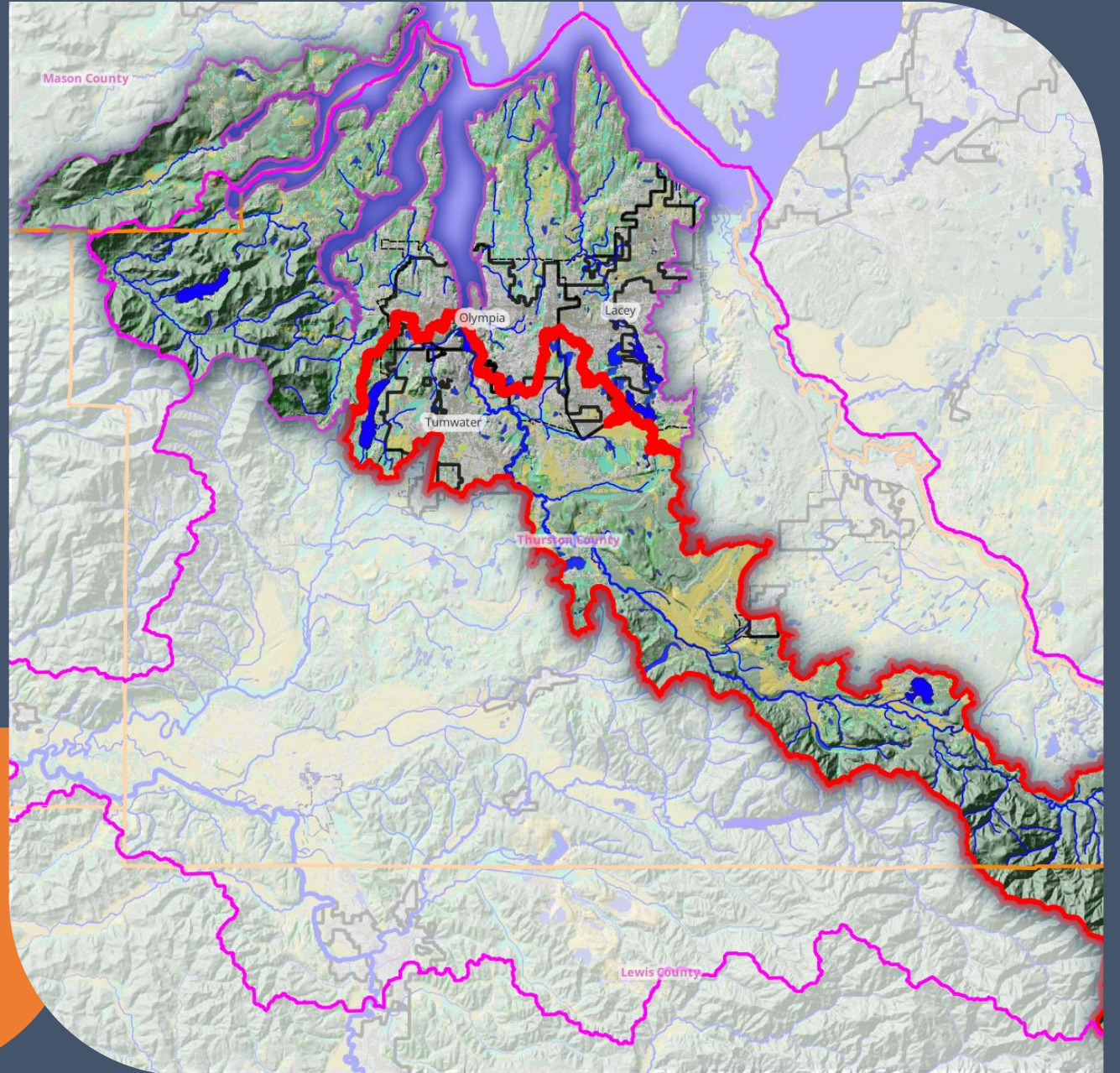
New Public-facing dashboards

- Lakes
- Streams
- Color-coded
- Water-quality index scores
- Health-based Lake concern level



Is There an Opportunity?

- Form a Council?
- Hear Ideas?
- Test/Model Ideas?
- Effective?
- Actionable?



This aerial map displays the Summit Lake area, which is 531 acres in size. The map shows the lake's shoreline and surrounding land parcels, many of which are outlined in yellow. Key features include:

- Water Bodies:** North Kettle Lake and Lake St. Clair are visible in the upper right.
- Roads:** Highway 40, Highway 60, Highway 80, and Highway 100 are shown as dashed lines.
- Property:** Numerous lots are outlined in yellow, with some labeled with numbers like 140.71, 62.81, 22.55, 20.57, 26.31, 25.3, 27.07, 29.39, 30.16, 32.44, 46.89, 39.92, and 78.89.
- Geographic Labels:** "Thurston County" is labeled in the center, and "Capitol Forest" is labeled in the lower right.
- Other Labels:** "Summit Lake 531 acres" is labeled in the center, and "Delica" is labeled in the lower right.
- Markers:** Red and blue symbols are placed on various lots, possibly indicating specific points of interest or survey markers.

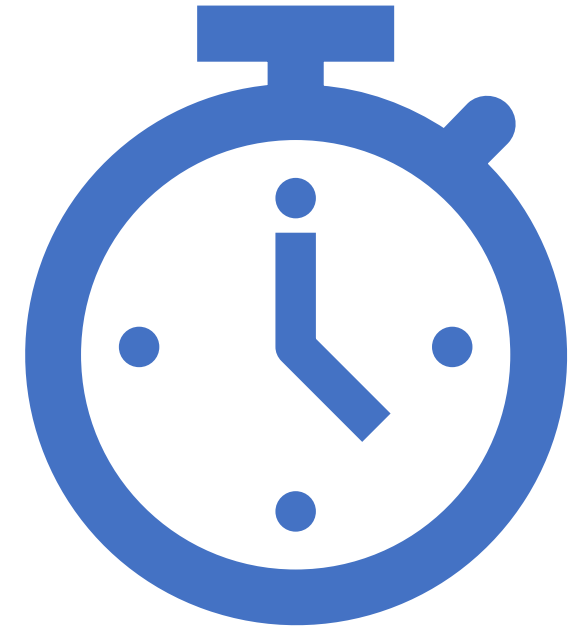
- 420+ lakes in the county
- A few lakes: county-led Basic data collection and research to inform follow-up actions
- No LMds to support the work
- Lake St Clair: 18 dry wells in past 12 months
- Summit lake: ~600 homes drinking lake water with HAB blooms
- Water budgets and chemistry, heat balances and Algae/hab management plan @ Summit lake

Questions?

Kevin Hansen: kevin.Hansen@co.thurston.wa.us

(360) 545-7485

5 MINUTE BREAK
AND BE BACK IN
YOUR SEATS FOR
THE LMD
BUSINESS
MEETING





LMD BUSINESS MEETING

Lake Lawrence Management District
Financial Report

	2026 Budget	YTD 8/31/2026	2026 Variance	2026 Notes
REVENUE				
Operating Assessment Charges	118,000	88,077	(29,923)	Per Thurston County thru 6/30/2026
Algae Grant	25,000	41,017	16,017	\$50,000 Algae Study Grant received in full
TOTAL REVENUE	143,000	129,094	(13,906)	Per Thurston County thru 6/30/2026
EXPENSES				
Administrative Rate at 5%	5,900	2,616	3,284	Per Thurston County thru 6/30/2026
Nuisance Weed Program	85,000	69,988	15,012	34 acres of aquatic weed treatment, & Yellow Flag Iris treatments
Algae Mitigation	210,000	-	210,000	No expenditures expected in 2026
Cyanobacteria Mgmt Plan	60,000	22,102	37,898	Herrera Contract of \$93,287 completed
Nutrient Testing	15,000	-	15,000	No expenditures expected in 2026
Prof Svcs - Advertising	1,100	(93)	1,193	
Total Professional Services	371,100	91,996	279,104	
Other	2,675	1,318	1,357	Shallow water signs \$1,046
Renewal Expenses	5,000	2,812	2,188	Renewal Mailings and ads
Total Supplies & Operating Expenses	7,675	4,130	3,545	
TOTAL EXPENSES	384,675	98,742	285,933	
NET (Revenue-Expenses)	(241,675)	30,352	272,027	
Beginning Fund Balance		431,246		
Ending Fund Balance		461,598		

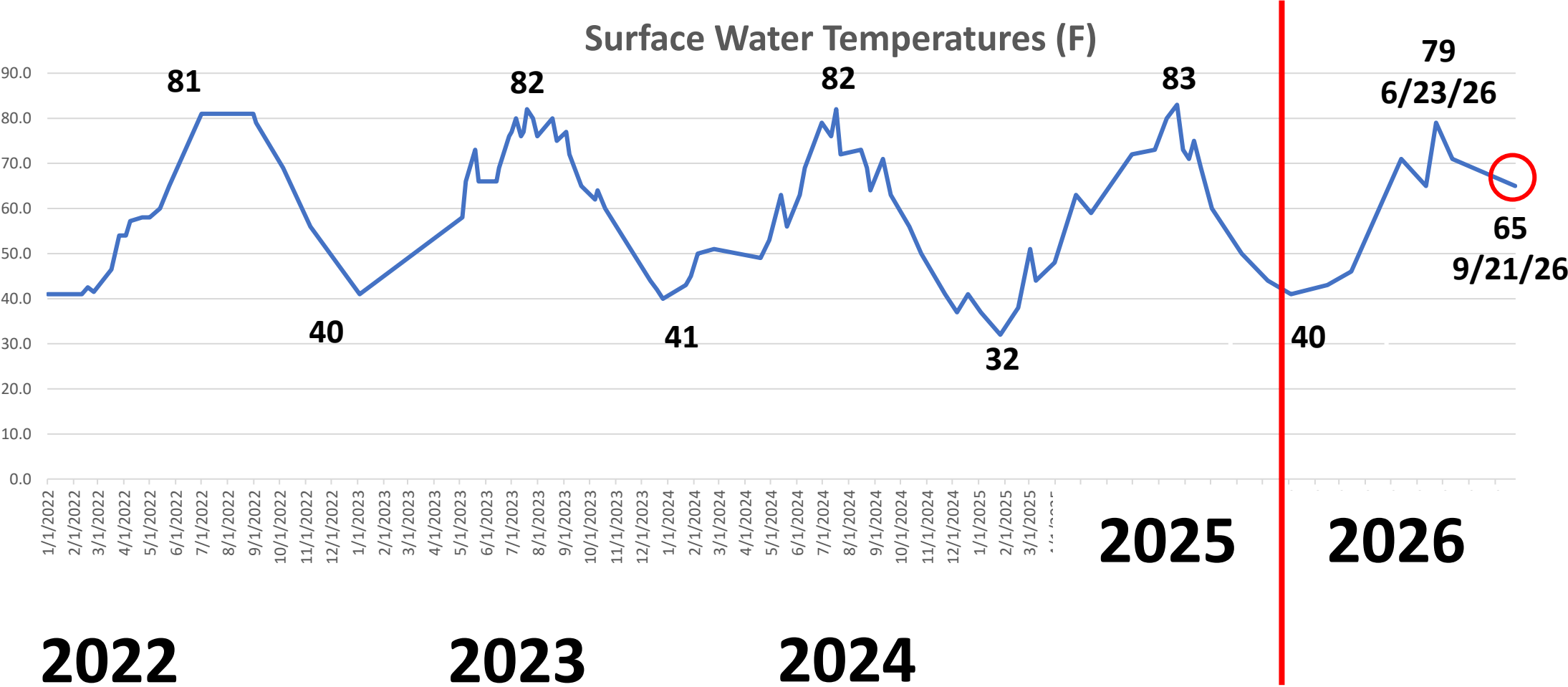
Lake Lawrence Management District

2027 and 2028 Budgets

	2027 Budget	2028 Budget
TOTAL REVENUE	\$ 200,000	\$ 200,000
Professional Services		
Weed Treatment	\$ 76,000	\$ 76,000
Cyanobacteria/Algae Treatment	350,000	120,000
Nutrient Testing	5,000	5,000
Advertising	300	300
Total Professional Services	431,300	201,300
County Administrative Rate at 5%	10,000	10,000
Operating Expenses	\$ 3,175	\$ 3,175
TOTAL EXPENSES	444,475	214,475
NET (Revenue-Expenses)	\$ (244,475)	\$ (14,475)
Estimated Beginning Fund Balance	475,000	230,525
Estimated Ending Fund Balance	\$ 230,525	\$ 216,050

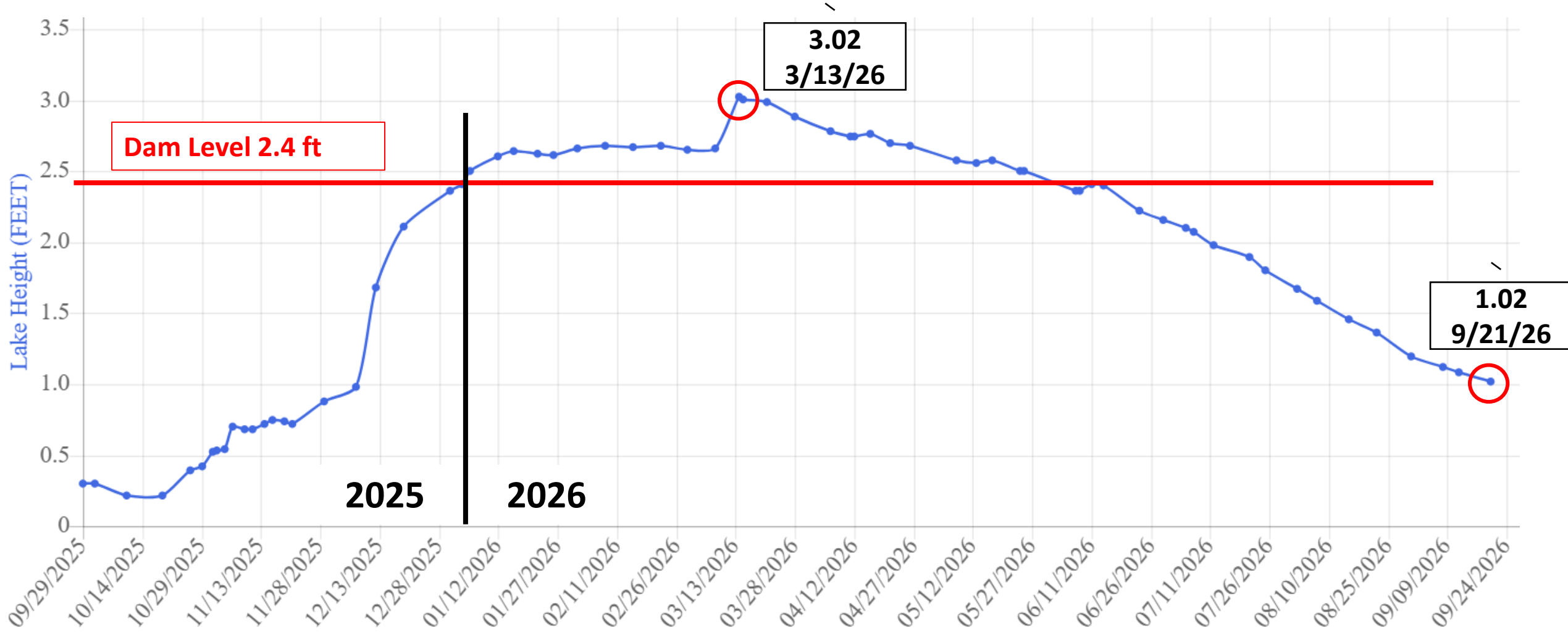
Lawrence Lake Surface Water Temperatures

(LAW 2: West Basin near HOA Park)



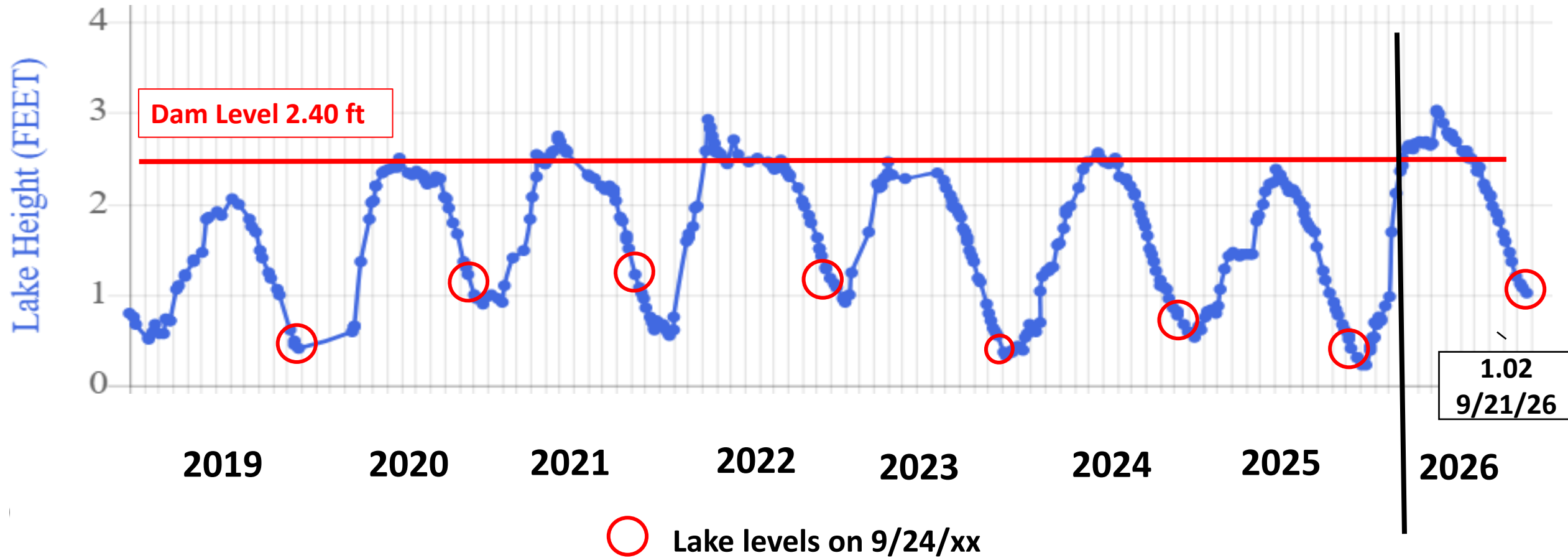
Lawrence Lake Water Surface Level LAW 2

ref: <https://liquidearthlake.website/gauge/scaleddetailsony/47>



Lawrence Lake Water Surface Level

ref: <https://liquidearthlake.website/gauge/scaledetailsall/47>



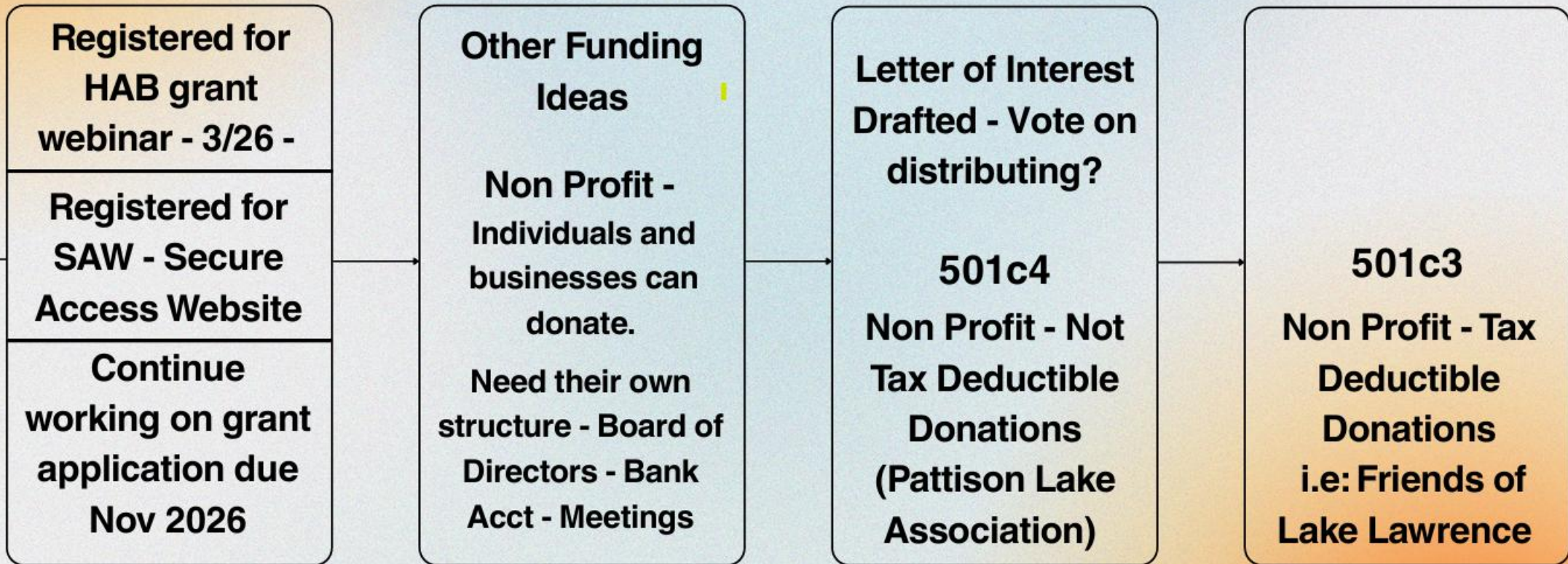
Senate Bill S-5638 Update (Continued)

- 2 Apr 26 – Rec'd email from WALPA - DRAFT Bill perspective paper/review sent to all parties (City/Counties; DFW; LMDs) with 5 May suspense. WALPA to coordinate actions with city/counties and DFW. Barry to coordinate with LMDs.
- 3 Apr 26 – Barry sent email/information to all State LMDs with recommended changes to perspective paper.
- 5 May 26 – Rec'd responses from LMDs and forwarded to WALPA.
- 28 May 26 – Sent follow-up email to all State LMDs requesting any final recommendations & requesting they talk with their county/city LMD leads.
- 16 July 26 – Just finished this JOINT MEETING with all concerned earlier today:
 - WALPA/LMD/LMD County/City Managers/WDFW
- 20 Aug 26 – Met with WALPA Legislative Committee to refine bill wording.

Senate Bill S-5638 Update (Continued)

- 30 Aug 26 – Draft bill submitted to Karen Epps, Senator Lovelett's office
- 26 Aug 26 – Met with Rep Doglio to discuss bill.
- 14 Sep 26 – Rec'd email from Senator Brauns office (Ruth, Sr Leg Aide) that he will meet with us after the 3 Nov election and if he is elected to the U.S. House he will provide a transition to whomever takes his place as GOP Minority Leader.
- 17 Sep 26 – Met with Rep Orcutt to discuss bill.
- 23 Sep 26 – Rec'd DRAFT of Bill – Sent to stakeholders for review/comment
- 20 Oct 26 – Have meeting with Sen Goehner to discuss bill – he is on the Senate Local Government Committee that will hear the bill.
- 23 Oct 26 – Have meeting with Rep Abbarno to discuss bill.
- 26 Oct 26 – Have meeting with Representative Barkis to discuss Bill.
- Working on meetings with Rep Marshall, and Senators Torres, McCune, and Retired Senator Karen Fraser

FUNDING FOR LAKE LAWRENCE



GRANT FUNDING UPDATE

- Kim Farnes
- Objective – to obtain one grant a year beginning in 2027.
- Grant Opportunities:
 - 1 Oct 2026 - \$50,000 Grant for Freshwater Algae Control Grant Program for Fiscal Year 2028.
Fund Manager: Joseph Teresi, Aquatic Invasive & Algae Control Grants Manager, Dept of Ecology, joseph.teresi@ecy.wa.gov
 - Cyanobacteria control and management
 - Storm Water Drainage & Erosion Control (LLCC HOA Park/Wildaire HOA Park & Drainage)
 - Habitat Restoration Goat Island/County Park/HOA Parks
 - Locating and capturing phosphorus output at lake vents (springs) to determine actual amount of “P” coming into lake through these springs.
 - Federal Grants EPA Grants under Clean Water Act – to fund OST Costs

Non-Profit 501C3

- SC members cannot be on this board
- 7 July 2026 – Three members have volunteered to lead this board
- July 2026 - First meeting of board

OVERVIEW OF 2026 SURVEY RESULTS

- Sonar did its job and eliminated the Curly Pondweed, Elodea, and Najas in areas treated.
- With the elimination of the above aquatic plants Tape Grass, that is unaffected by Sonar grew in abundance.
- YFI Treatment was conducted, but less successful than previous years.
- No Fragrant Water Lily Treatment this year – insufficient density to justify expense.

2027

January							February							March							April						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
27	28	29	30	31	1	2	31	1	2	3	4	5	6	28	1	2	3	4	5	6	28	29	30	31	1	2	3
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28	29	30	31	1	2	3	28	29	30	31	1	2	3	25	26	27	28	29	30	1
31	1	2	3	4	5	6																					
May							June							July							August						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
25	26	27	28	29	30	1	30	31	1	2	3	4	5	27	28	29	30	1	2	3	1	2	3	4	5	6	7
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
23	24	25	26	27	28	29	27	28	29	30	1	2	3	25	26	27	28	29	30	31	29	30	31	1	2	3	4
30	31	1	2	3	4	5																					
September							October							November							December						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
29	30	31	1	2	3	4	26	27	28	29	30	1	2	31	1	2	3	4	5	6	28	29	30	1	2	3	4
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
26	27	28	29	30	1	2	24	25	26	27	28	29	30	28	29	30	1	2	3	4	26	27	28	29	30	31	1

- LEGEND**
-  LMD MTGS
 -  Water Quality Testing
 -  SURVEYS
 -  ANNUAL MTG
 - V VIRTUAL

2027

- LMD Meeting
- Water Quality Monitoring
- Survey
- Annual Meeting Schedule

2027 SC Meeting Schedule – Thursdays 6:30-8:30 p.m.:

- 18 February (Virtual)
- 18 Mar (Virtual)
- 13 May (In Person)
- 15 July (Virtual)
- 14 Oct (In Person)

2027 Water Quality Monitoring Schedule – Tuesdays 9-11 a.m.:

- Tuesdays – Additional dates may be added due to timing of Phosphorus Treatments
- Jan 12, Feb 9, Mar 9, Apr 13, May 11, Jun 8, Jul 13, Aug 17, Sep 7, Oct 12, Nov 9, and Dec 7

2027 Survey Schedule – Tuesdays 9-12 a.m. (3-4 hours):

- 13 Apr
- 11 May
- 8 June
- 13 July
- 17 August

Annual Meeting – 6:30-8:30 p.m.

- Thursday 23 September

NOTE: On days when Lake Surveys are scheduled Water Quality Monitoring will be done the same day/same boat

2025-2026 LMD Annual Lake Report

- ★_G • 1 September Draft submitted to SC
- ★_G • 24 September 2026 DRAFT briefed to members at Annual Meeting
 - SC Motion to Approve:
 - Approve: _____
 - Disapprove: _____
 - 15 October 2026 Submit to Environmental Health, Water Resources and other interested agencies



G = Green = Completed On Time



Y = Yellow = Late – Program
Jeopardized



R = Red = Mission Fail

WHAT IS ON THE LAKE LAWRENCE WEBSITE?

- YOU CAN ACCESS OUR WEBSITE BY GOING TO THIS URL:

<https://www.lakelawrencelakemanagementdistrict.com>

- Or scanning this QR Code:
- NOW WASN'T THAT EASY?





QUESTIONS