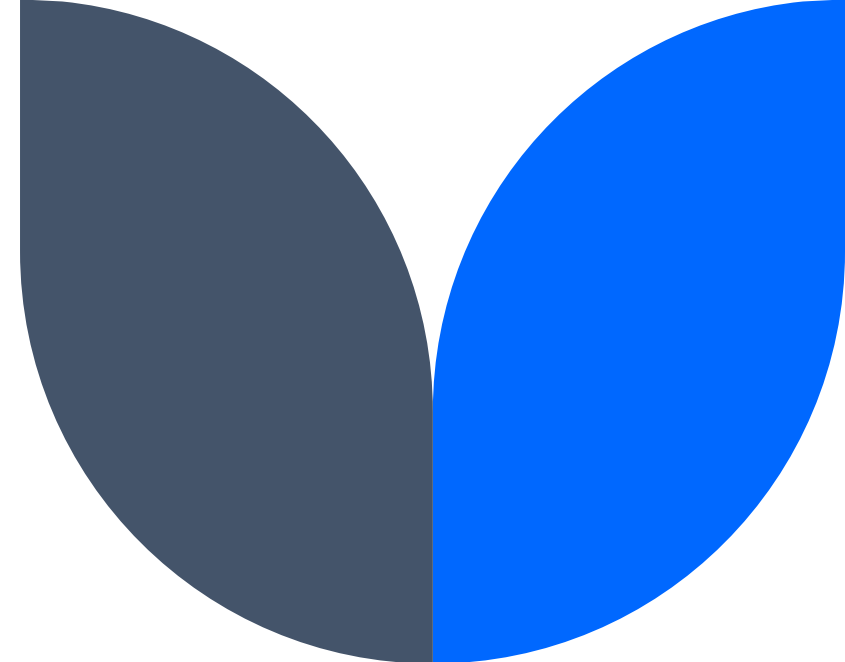
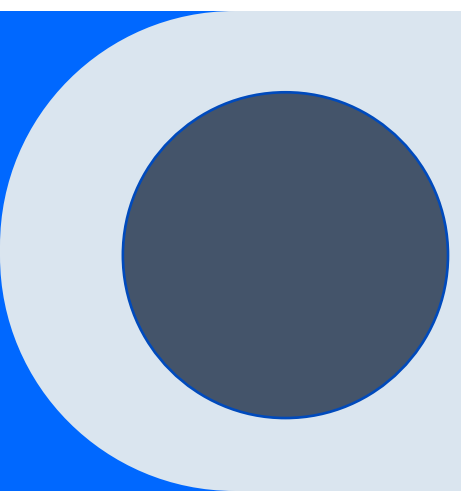




Lawrence Lake & YOU

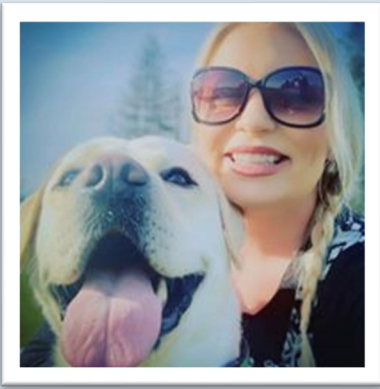
How Everyday Actions Affect Our Lake



We Are Happy to be Here Tonight

- Introductions & Overview
- Quick Giveaway
- The Goal
- Lake Lawrence Drainage
- Stormwater Context
- Healthy Choices
- Septic Care
- Q&A
- Pesticide-Free Pledge

Who We Are



Kelsey Mae Crane

Thurston County,
Stormwater Outreach
Specialist



Jennifer Johnson

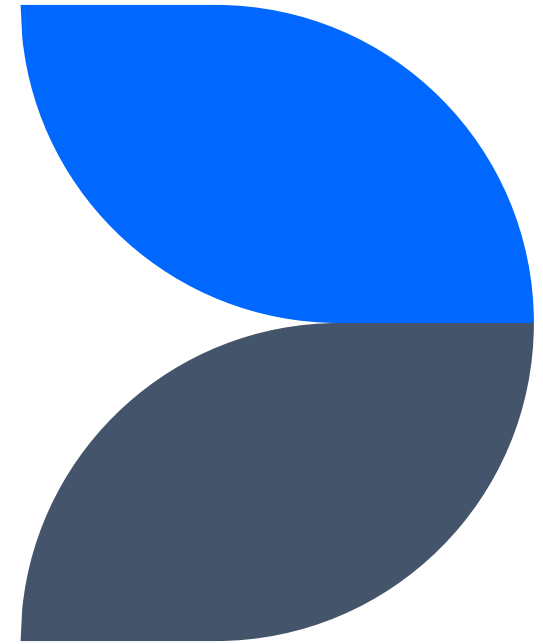
Thurston County,
Environmental Health
Specialist

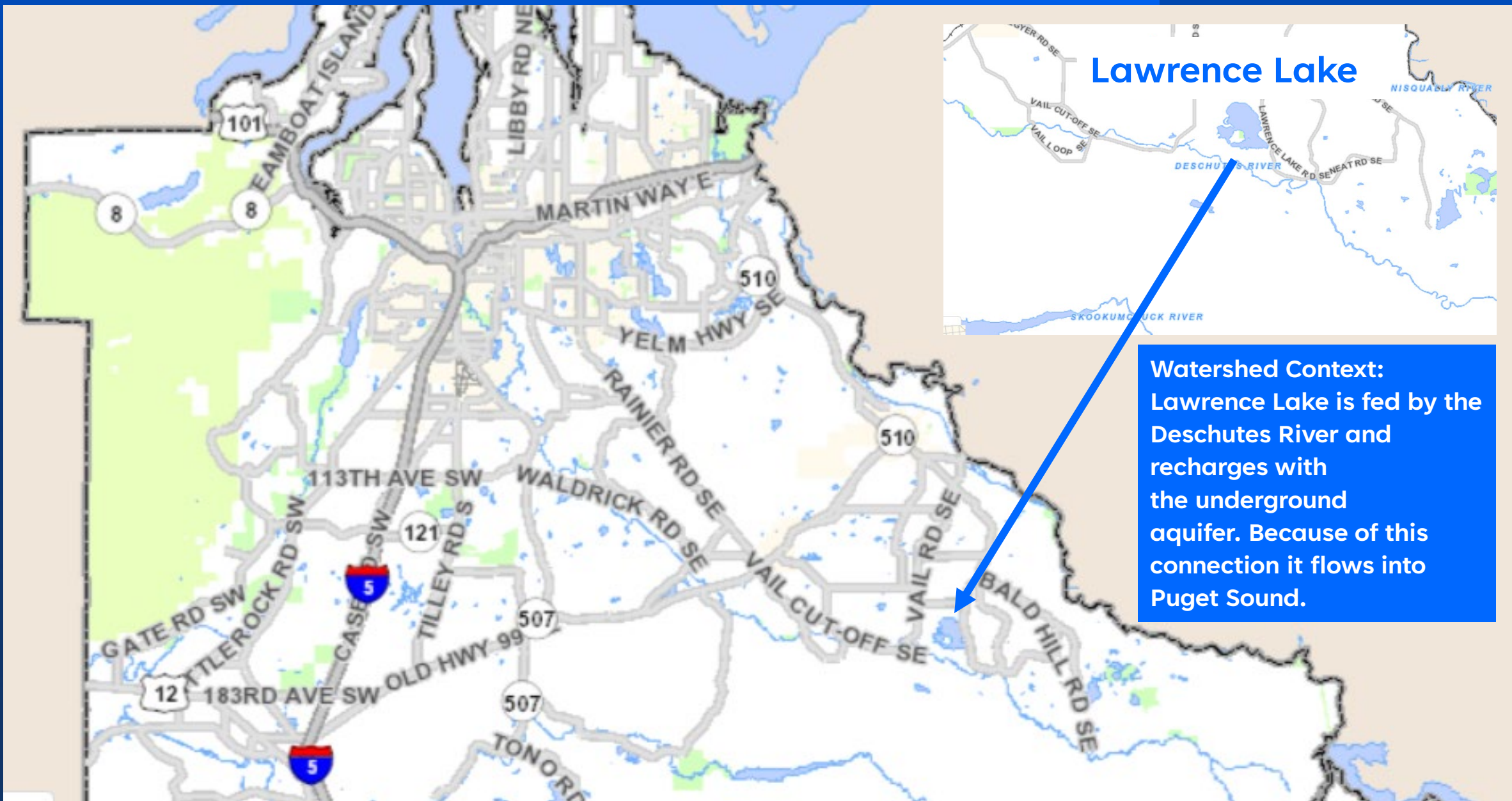
Quick Giveaway



Our Shared Goal

A Healthy Lake For All!





Watershed Context:
Lawrence Lake is fed by the Deschutes River and recharges with the underground aquifer. Because of this connection it flows into Puget Sound.

Drainage Context

- 330-acre man-made lake, impounded by dam
- 25+ ft depth
- Logging + Sawmill history on lake
- Drains south



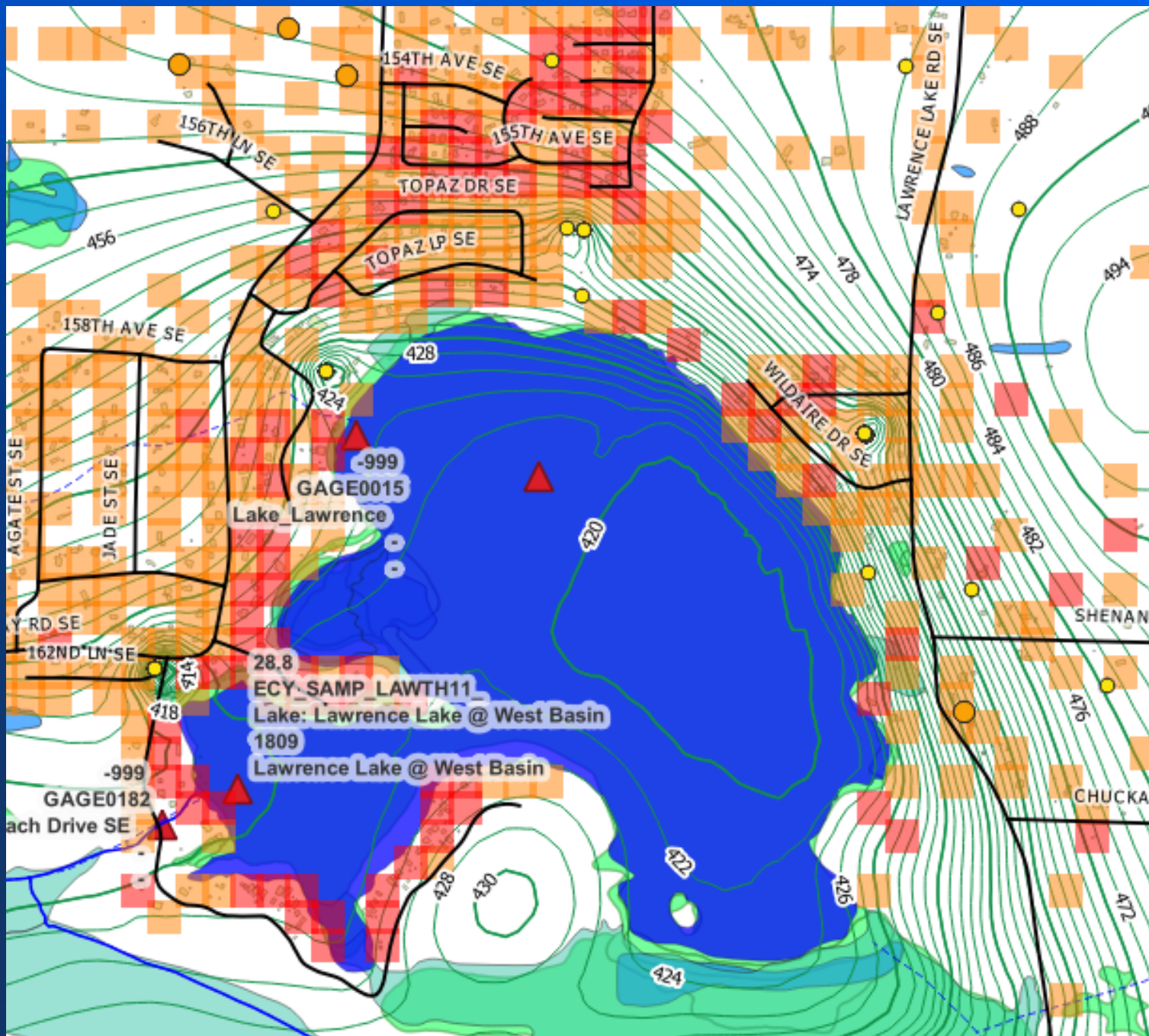


**Lake Management
District #22 Est. 2016**

*Deschutes River runs
low through here...*

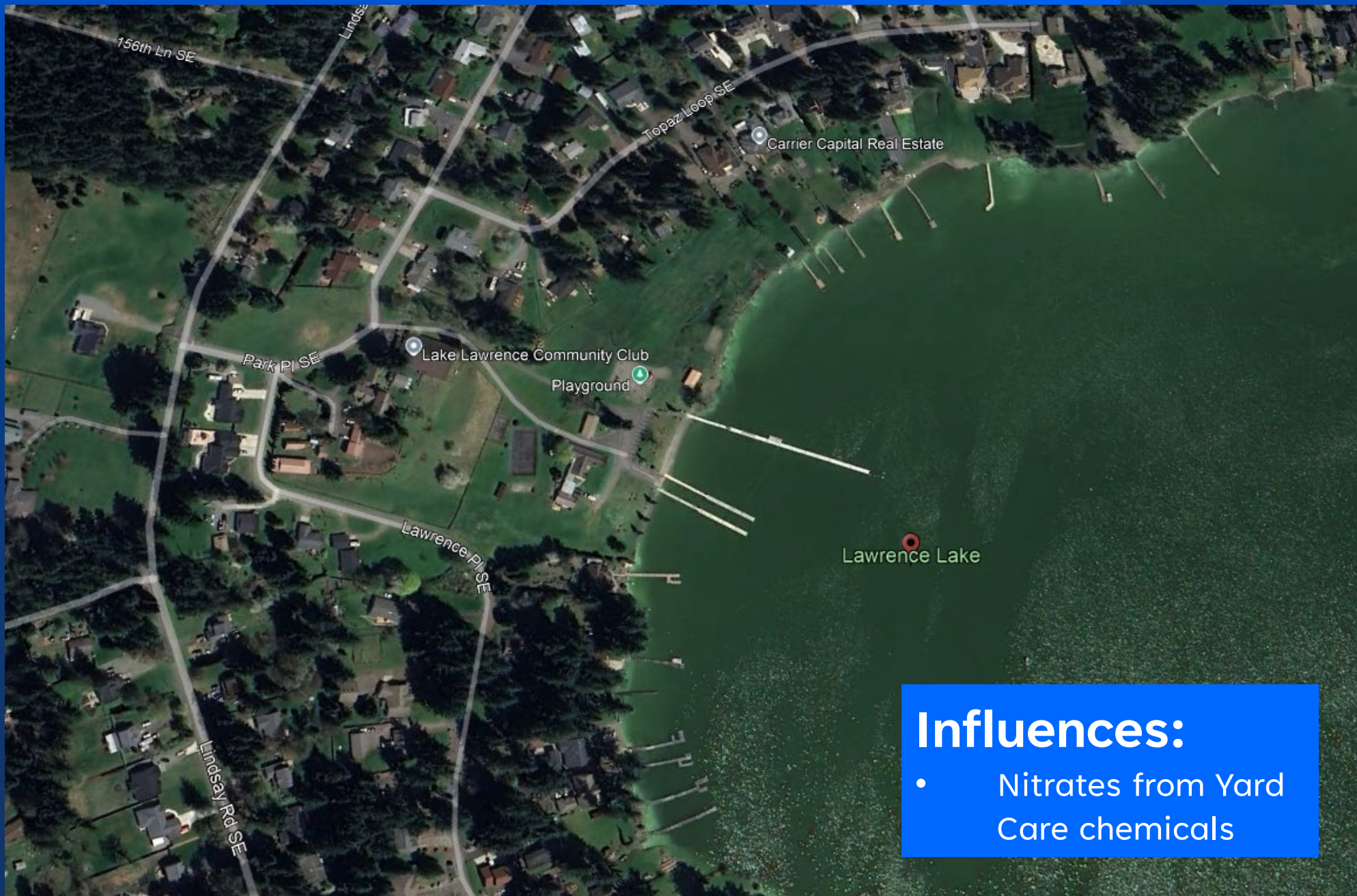


Stormwater Runoff,
Local Agriculture
(cattle, sheep, etc.) &
Nitrates from Septic
Systems & Yard Care



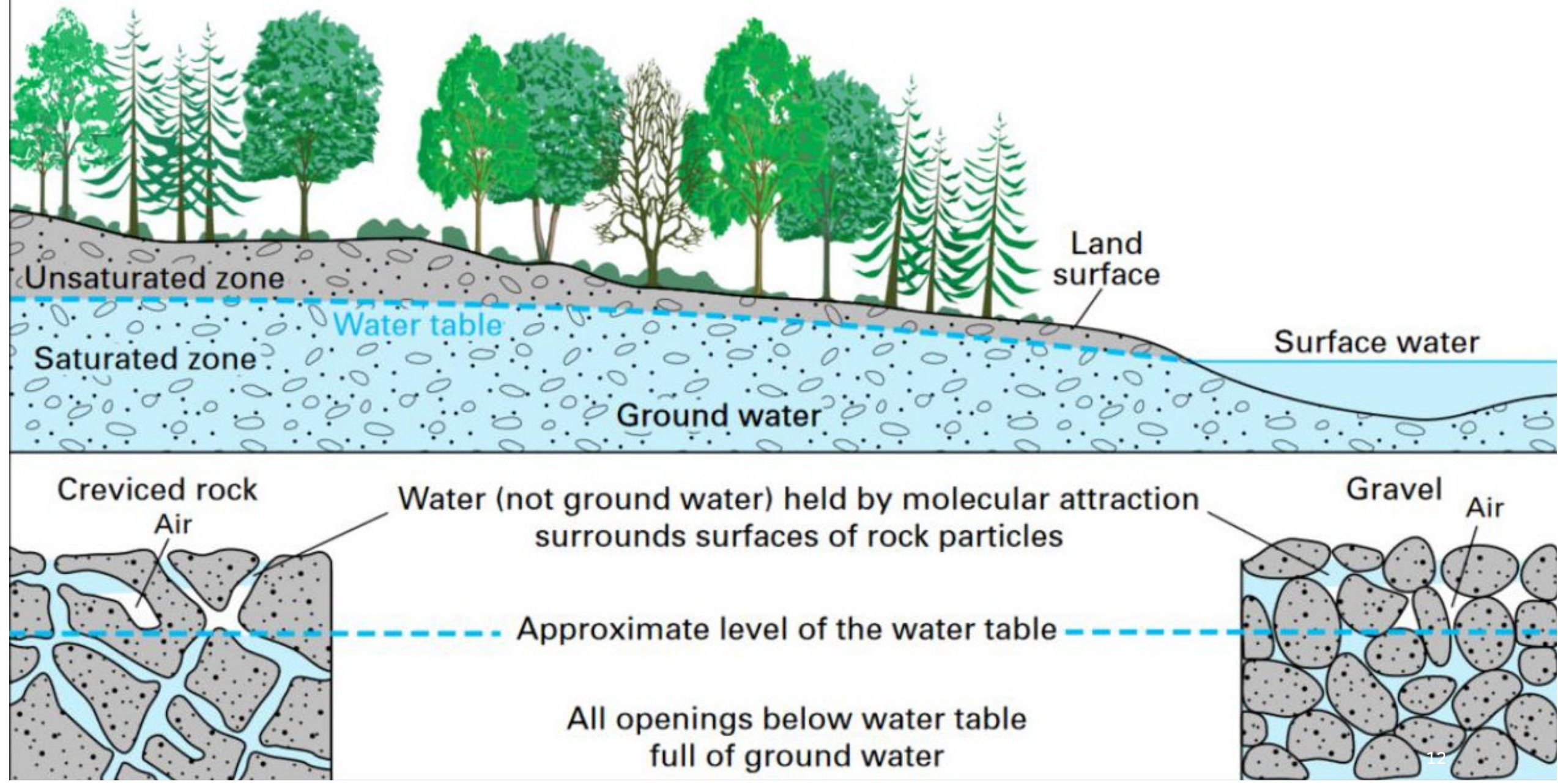
Influences:

- Nitrates from Septic Systems
- This data is calculated based on when the lots were developed and estimated habitation



Influences:

- Nitrates from Yard Care chemicals





1991

2023

Lake Lawrence Community Club

Lake Lawrence Community Club

Lawrence Lake

Lawrence Lake

**More Development
(impermeable surfaces &
pollutants) = Increased
Stormwater Runoff**

Lake Lawrence

9/28/2024



WHEN IT RAINS, IT POURS

Just one storm can dump millions of gallons of water on Thurston County!

As water from storms flows over our yards, roads, parking lots, and buildings it collects things you wouldn't want to touch or drink.



What is Stormwater?

LEARN HOW TO KEEP OUR WATER CLEAN

My.ThurstonStormwater.org

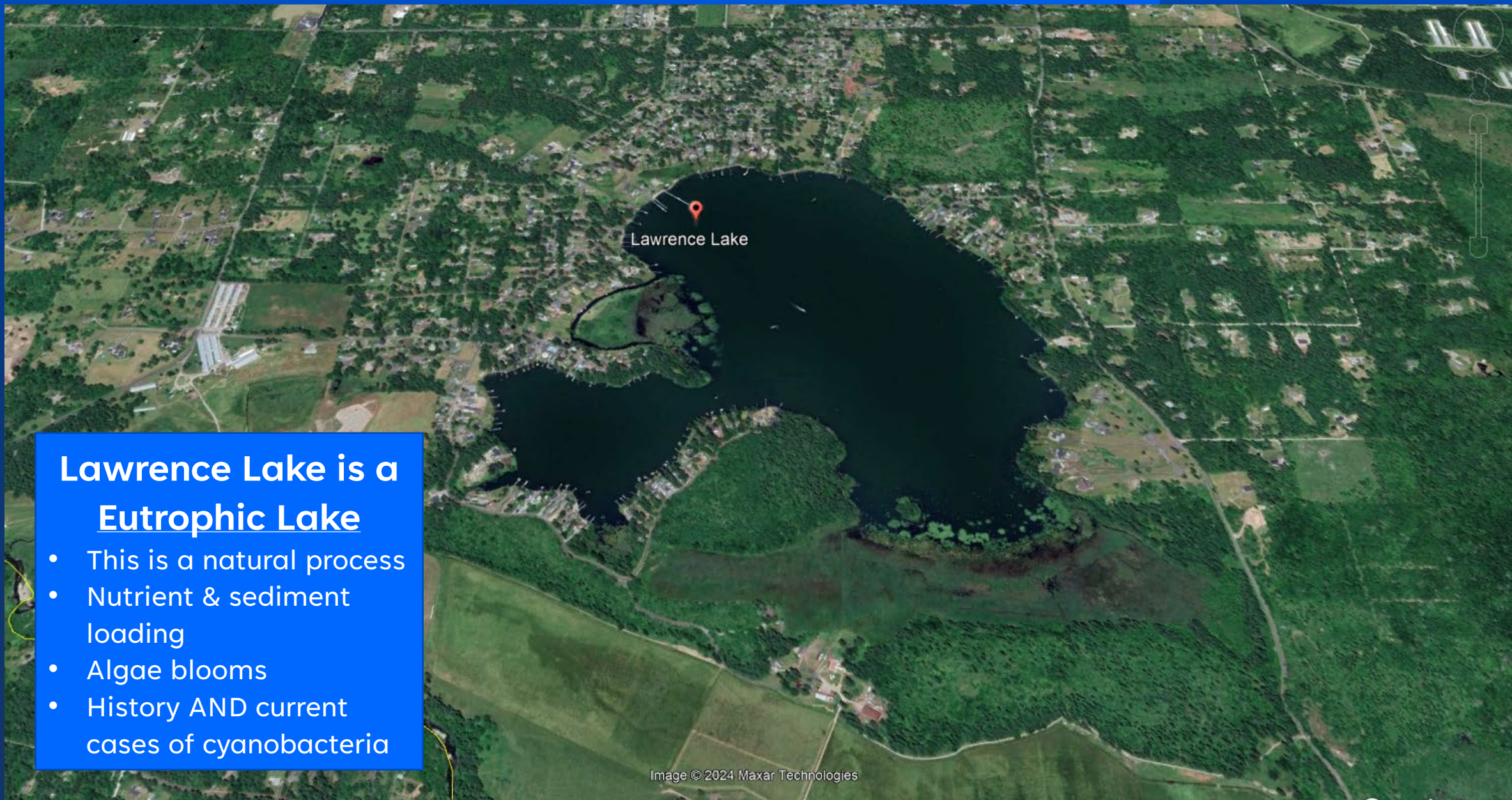


Get a free pet waste station for your neighborhood!

Pets.ThurstonStormwater.org

Undeveloped land and stormwater ponds, swales, and rain gardens are like sponges. They help soak up and filter polluted stormwater before it enters our lakes, streams, and drinking water sources.





Lawrence Lake is a Eutrophic Lake

- This is a natural process
- Nutrient & sediment loading
- Algae blooms
- History AND current cases of cyanobacteria

Image © 2024 Maxar Technologies

“

Eutrophic conditions form when a water body is "fed" too many nutrients, especially phosphorus and nitrogen. The excess food causes algae to grow out of control, and when the algae die off, the bacteria present use up a lot of the dissolved (available) oxygen.

”

-USGS

More Resources:

[Toxic Blue-Green Algae Blooms \(wa.gov\)](https://www.wa.gov)

[Washington State Toxic Algae \(nwtoxicalgae.org\)](https://nwtoxicalgae.org)

[Cyanobacteria | Washington State Department of Health](https://www.wa.gov/health/cyanobacteria)

[Algae - Find your lake \(nwtoxicalgae.org\)](https://nwtoxicalgae.org)

Sign up for Lake Advisories from Thurston County Public Health

[Water Recreation | Thurston County \(thurstoncountywa.gov\)](https://thurstoncountywa.gov)

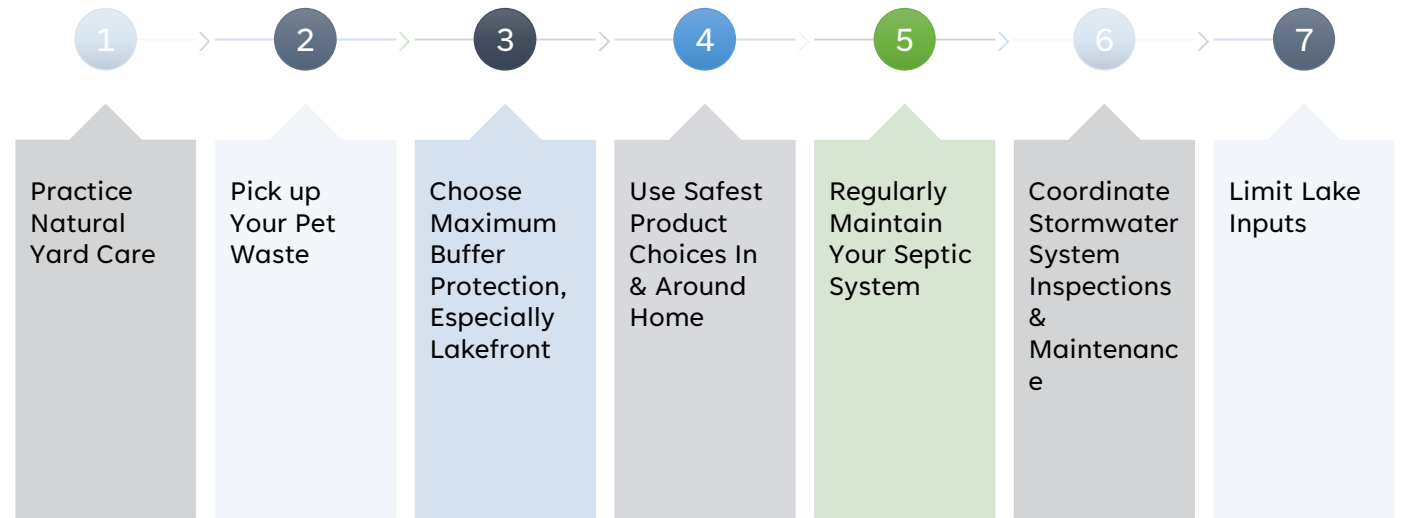
[Signup Form \(constantcontactpages.com\)](https://constantcontactpages.com)

- **Question about Toxic Algae?**
- **CONTACT:** Renae Miller, Public Information Supervisor – Public Health & Social Services, 360-463-0362 or renae.miller@co.thurston.wa.us
- Dr. Jen Freiheit, Interim Director, Thurston County Public Health and Social Services



What Can We Do At Home?

Individual Actions = Collective Impact

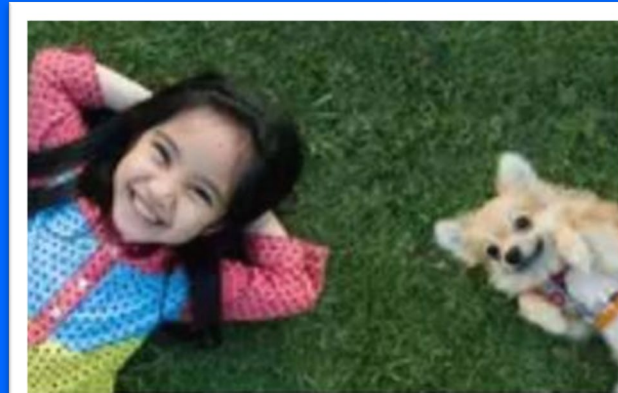


Yard Care is Lake Care

Natural Yard Care Practices

- Naturescaping
- Soil sample
- Soil pH rebalancing
- Slow-release fertilizers
- Mulch mowing
- Avoid hazardous bug and weed killers
- Keep landscaping materials out of the lake
- Cover/protect soil to protect run-off
- Smart watering

Natural Yard Care – Go Green Program Online Training



Go Green Lawncare

www.thurstongogreen.org

Naturescaping

Plant Native Plants





Lawrence Lake and YOU



Soil sampling

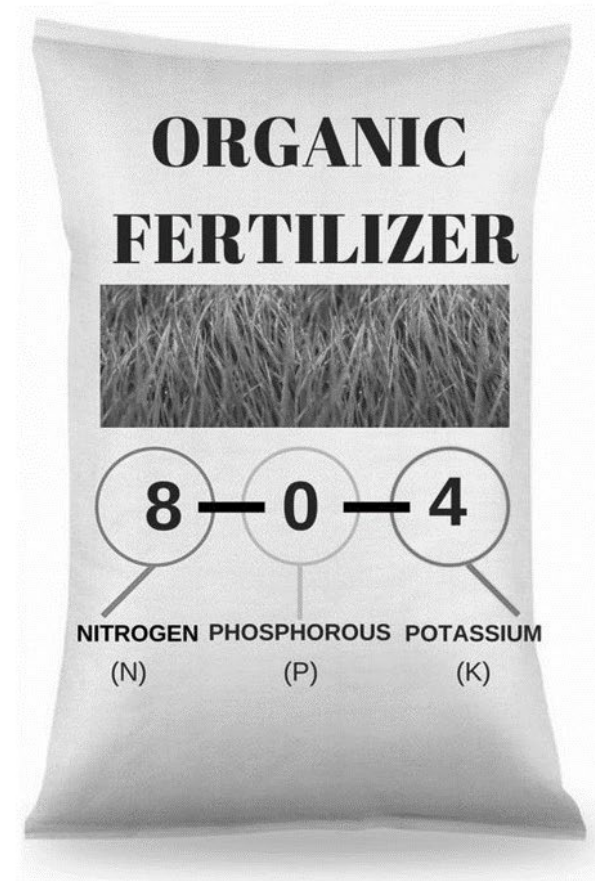
(GIVEAWAY)

Basic Soil Test: \$25.00

A Basic Soil Test is recommended if you have a garden, pasture, hay field, lawn, or are establishing a new annual crop. This test includes:

- Organic Matter
- Nitrogen
- Phosphorus
- Potassium
- Calcium
- Magnesium
- pH and buffer index
- Sulfur

Slow-release fertilizers





Mulch Mowing

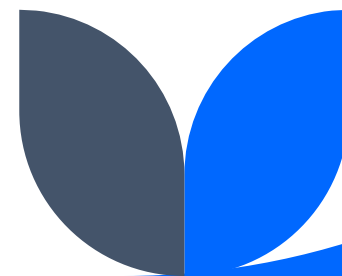
- Keep the blade sharp
- Mow when grass is dry
- No more than 1/3 of the height at a time
- About 2 inches
- EcoLawns don't need much mowing!



EcoLawns

9/28/2024

Lawrence Lake & YOU



Safest Weed Control (Giveaway)



- Prevent weeds with mulch, watering, close plant spacing.
- Hand weeding is the best.
- Choose the safest chemicals as a last resort.

When in Doubt:

[Grow Smart, Grow Safe](#)

Aerating Your Lawn



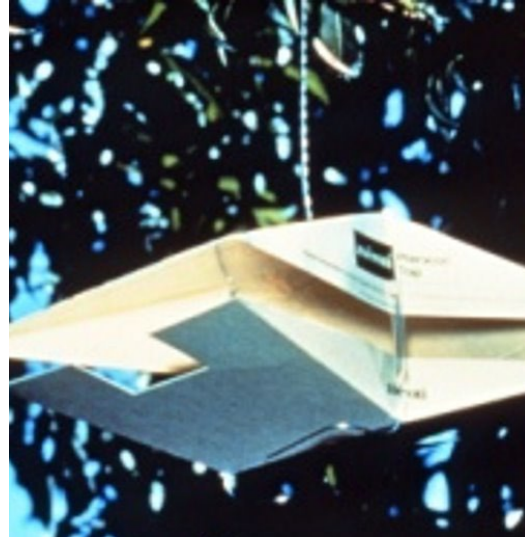
Safest Insect Control







Observe!



Choose Safest Insect Control

- *Biological*
- *Cultural*
- *Physical*



Practice Protective Soil Practices



Conserve Water, Reduce Run-off



Drip (trickle) irrigation water crops efficiently
Photo credits: Nova Scotia Agriculture & Fisheries

Water

Morning and evening



Just the plants you want (not the weeds and sidewalks!)



Sprinklers are not recommended

More Resources

ECO-Pro

Grow Smart Grow Safe

GO Green Yard Care (free online course and technical support)

[Healthy Gardening | Thurston County \(thurstoncountywa.gov\)](https://thurstoncountywa.gov)

Pollution Prevention

Pick up After Your Pets:

- Bag it & Trash it every time (while walking)
- Scoop & Trash daily (or weekly) from yard

Inspect & Maintain Stormwater Systems:

- Inspect systems annually & within 24 hours of storms
- Regularly maintain private systems

Stormwater Online Training

www.tinyurl.com/stormwateredu

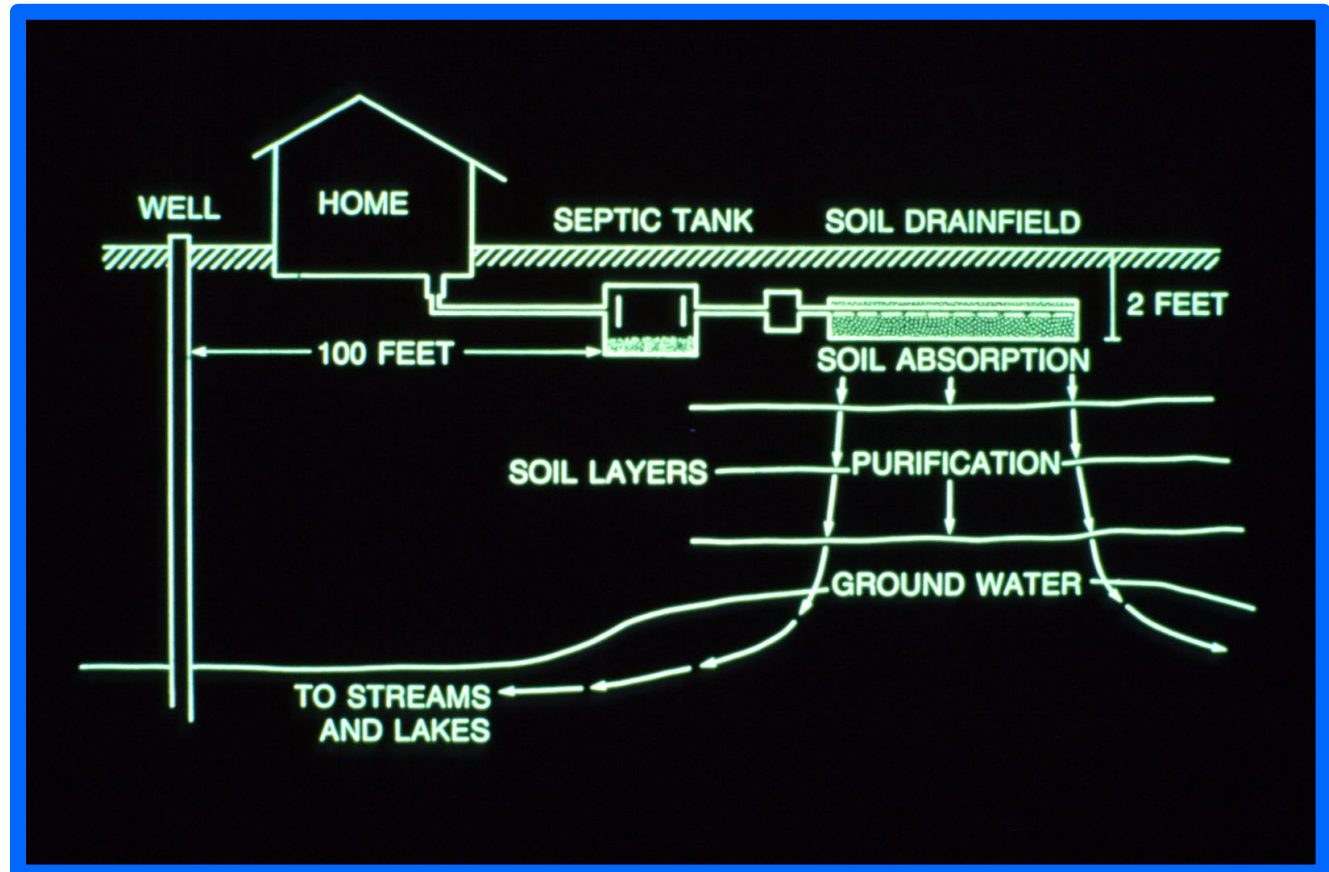


Private Stormwater Systems
Inspections & Maintenance

Basic Dos

- Inspect annually
- Pump as needed (every 3-5 years)
- Get on a schedule with a pumper that you trust
- Conserve water
- Risers
- Effluent filter
- Watch what goes down the drain
- Know where your components are located
- Protect your reserve area

Septic System Care is Lake Care



Basic Don'ts

Septic System Care is Lake Care

- Avoid garbage disposal
- Avoid additives
- Don't drive over any components
- Don't graze animals
- Don't park over anything
- Don't plant anything other than grass over drain field



Only Shallow Rooting Plants Over Drainfield

Safe Storage AND Disposal



Q&A

Take the Pledge to Go Pesticide Free~

Get a Sign & More Info

9/28/2024



Lawrence Lake and YOU



Thank you!

Kelsey Mae Crane

Kelsey.Crane@co.Thurston.wa.us

Jennifer Johnson

Jennifer.D.Johnson@co.Thurston.wa.us