



Explore our interactive PIC map

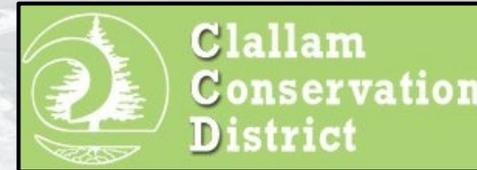


DEPARTMENT OF
ECOLOGY
State of Washington



PIC Program Update

(Pollution, Identification, and Correction)

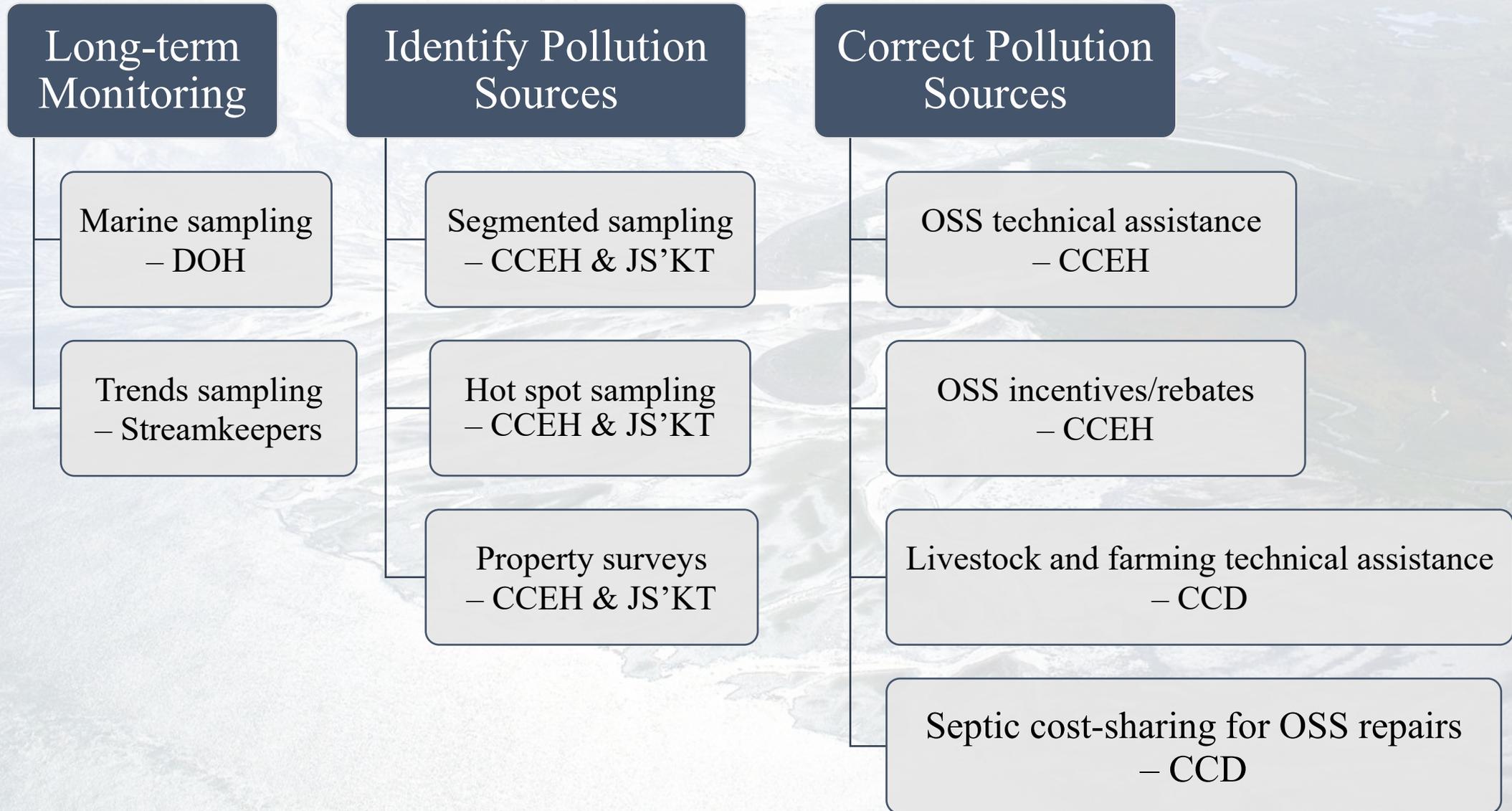


Community Meeting • May 2025

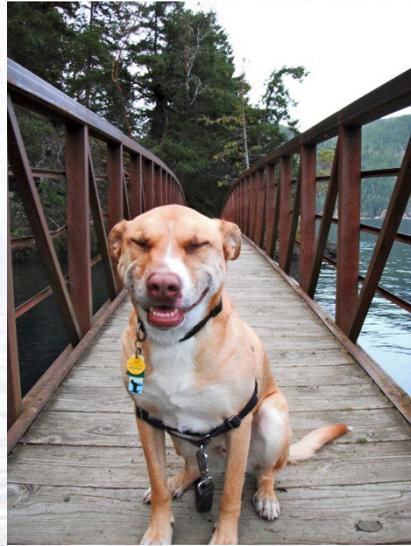
What is the PIC Program?

- The Pollution Identification and Correction (PIC) program is designed to improve water quality in the Sequim-Dungeness Bay Clean Water District by identifying and mitigating sources of bacterial contamination.
- Utilizing systematic monitoring and source-tracking methods, the program targets priority sub-basins for focused investigation and corrective action.
- PIC provides technical assistance, educational outreach, and financial resources to support property owners in addressing septic system and agricultural runoff issues.
- The program helps protect public health, enhance environmental quality, and support the restoration of shellfish harvesting areas.

How is PIC Structured?



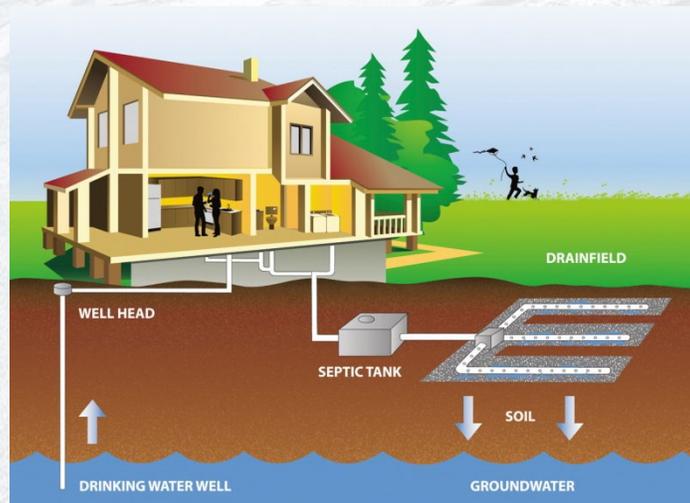
What are the Sources of Bacterial Pollution?



Pet Waste



Livestock



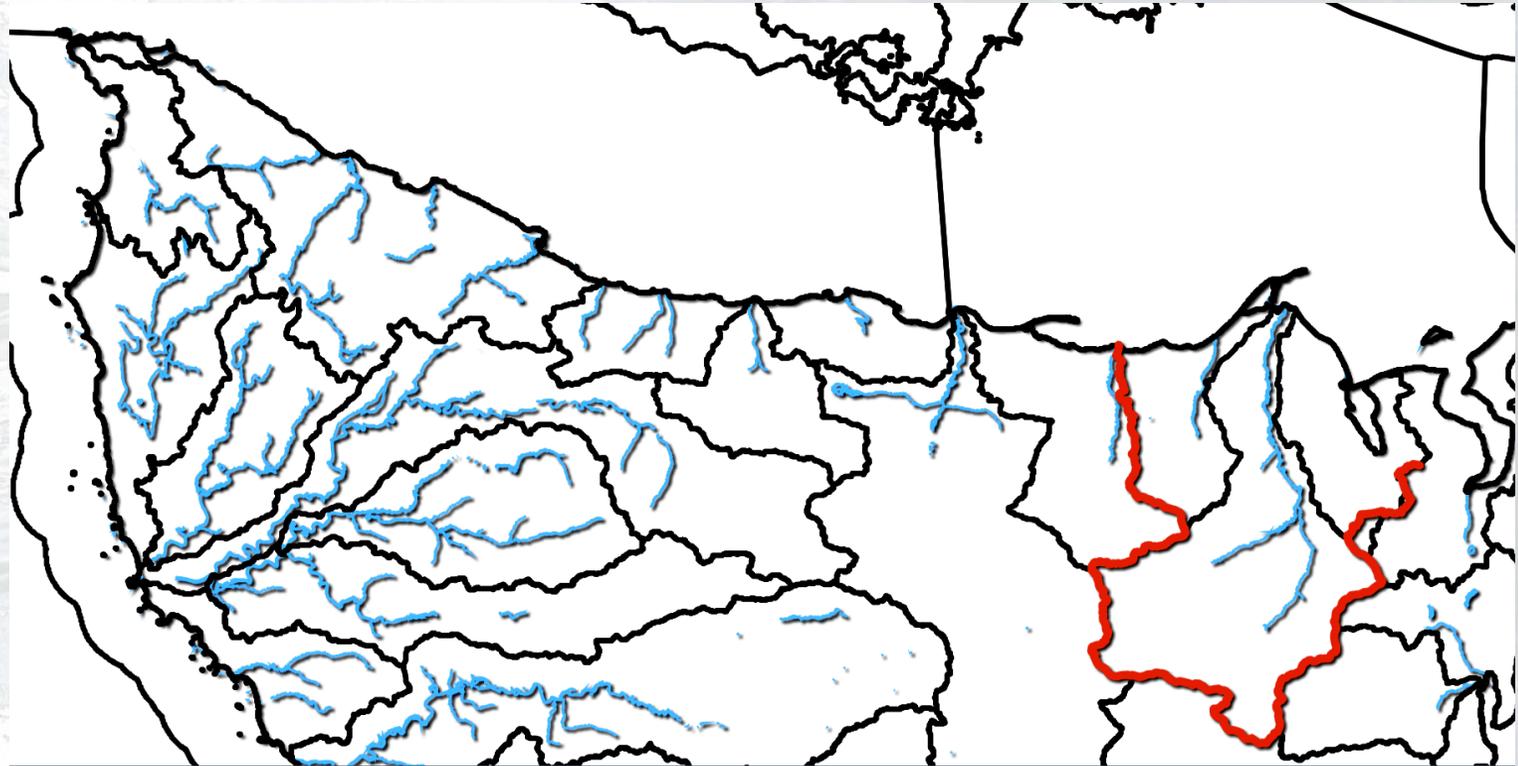
Failing Septic systems



Wildlife – Ducks, Elk, etc.

Where is the PIC Program Focused?

- The Sequim-Dungeness Clean Water District (CWD) covers the eastern half of the Morse Creek-Frontal Port Angeles Harbor watershed, the Dungeness River watershed, and the Jimmycomelately Creek-Frontal Sequim Bay watershed.
- Total CWD area is approximately 230,000 acres.



Clallam County's larger watershed areas, major streams, and the Sequim-Dungeness Clean Water District.

Sequim-Dungeness CWD Timeline

- 1992 200 acres of Sequim Bay closed to shellfish harvest and 2830 downgraded to conditionally approved.
- 1997 Bacteria levels in Dungeness Bay exceed NSSP standards. Stakeholders develop Shellfish Closure Response Strategy.
- 1998 Area near mouth of Dungeness River closed to harvest. DOH convenes Response Team with Clallam County as lead for Shellfish Protection District.
- 1999 Dungeness River TMDL study began.
- 2000 300 acres of Dungeness Bay closed to harvest. Clallam County forms Clean Water District and Clean Water Work Group.
- 2001 An additional 100 acres of Dungeness Bay closed.
- 2002 Dungeness River TMDL completed. Included tributaries - Meadowbrook Creek, Cooper Creek, Golden Sands Slough, Matriotti and Hurd Creeks. Dungeness Bay TMDL study began.
- 2003 1,150 acres of Dungeness Bay reclassified to conditionally approved and additional 250 acres closed.
- 2004 Dungeness Bay TMDL study completed. CWWG completes Clean Water Strategy and Cleanup Implementation Plan. EPA funds OSS education and irrigation piping projects.
- 2005 WAC 246.272A requires OSS Management Plans.

Sequim-Dungeness CWD Timeline (cont.)

2006

RCW 70.118A mandates Marine Recover Areas where septic systems contribute to marine water quality issues.

2007

Clallam County uses boundaries of the Clean Water District used to designate a Marine Recovery Area.

2010

TMDL effectiveness study showed 9 of 13 Dungeness Bay tributaries still did not meet water quality criteria.

2011

500 acres in the Dungeness Bay were upgraded from Prohibited to Conditionally Approved.

2012

Clallam County secured EPA National Estuary Program funding to develop a Pollution Identification & Correction (PIC) plan for the CWD.

2014

Clallam County, in partnership with the Conservation District, Jamestown Tribe and public, finalized a PIC plan.

2015

PIC Phase I (2015 – 2017) Focus Area sampling in Golden Sands, Meadowbrook Creek, and Meadowbrook Slough. 688 acres in Dungeness Bay upgraded from Conditionally Approved to Approved. 40 Prohibited acres Conditionally Approved.

2016

272 acres of shellfish growing area just offshore from the Dungeness River mouth were upgraded from Conditionally Approved to Approved.

2017

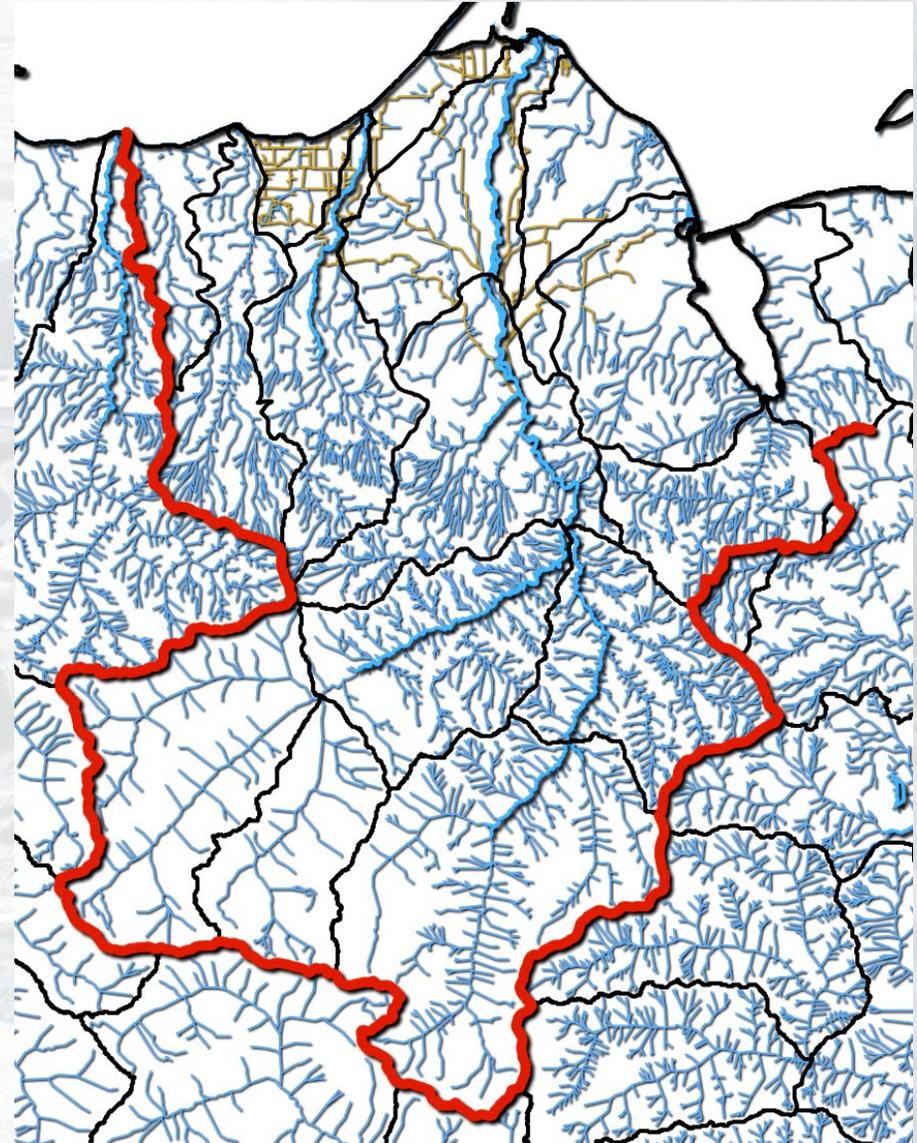
PIC Phase II (2017-2019) focused on Matriotti and Lotzgesell Creeks.

2020

PIC Phase III (2020 -2022) targeted Upper Matriotti Creek and Lower Bell Creek. 23 acres of shellfish growing area at the mouth of Golden Sands Slough and Cassalary Creek upgraded from Prohibited to Approved.

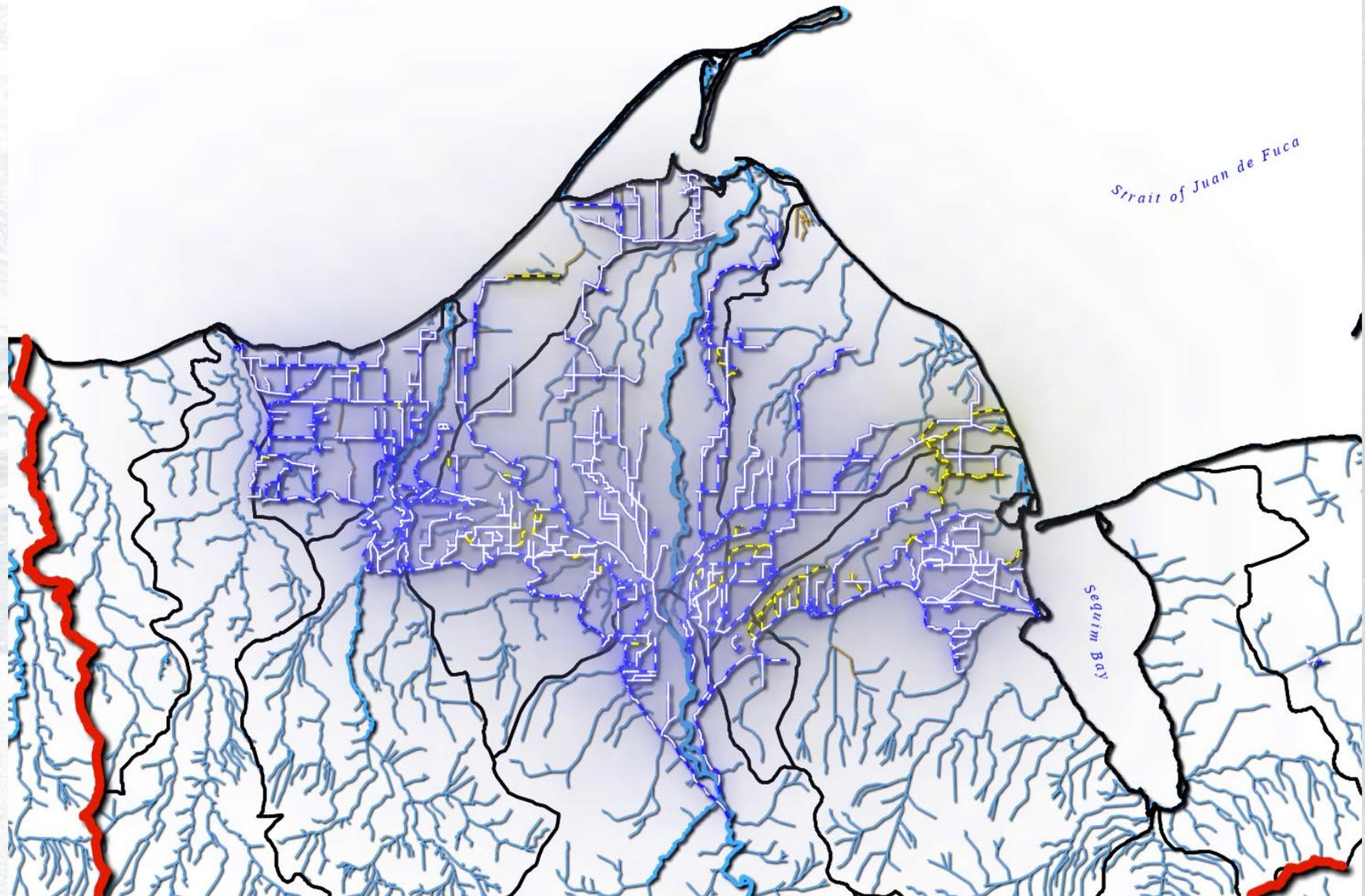
Sequim-Dungeness Clean Water District

- The CWD contains 14 sub-watersheds: Bagley, Siebert, McDonald, Lower Dungeness, Middle Dungeness, Upper Dungeness, Dungeness Headwaters, Cameron, Lower Gray Wolf, Upper Gray Wolf, Cassalery, Johnson, Jimmycomelately, and Blyn.
- Tributaries to Dungeness Bay have historically been the most problematic toward shellfish growing areas. These include the Dungeness River and Lotzgesell, Matriotti, Hurd, and Meadowbrook Creeks.



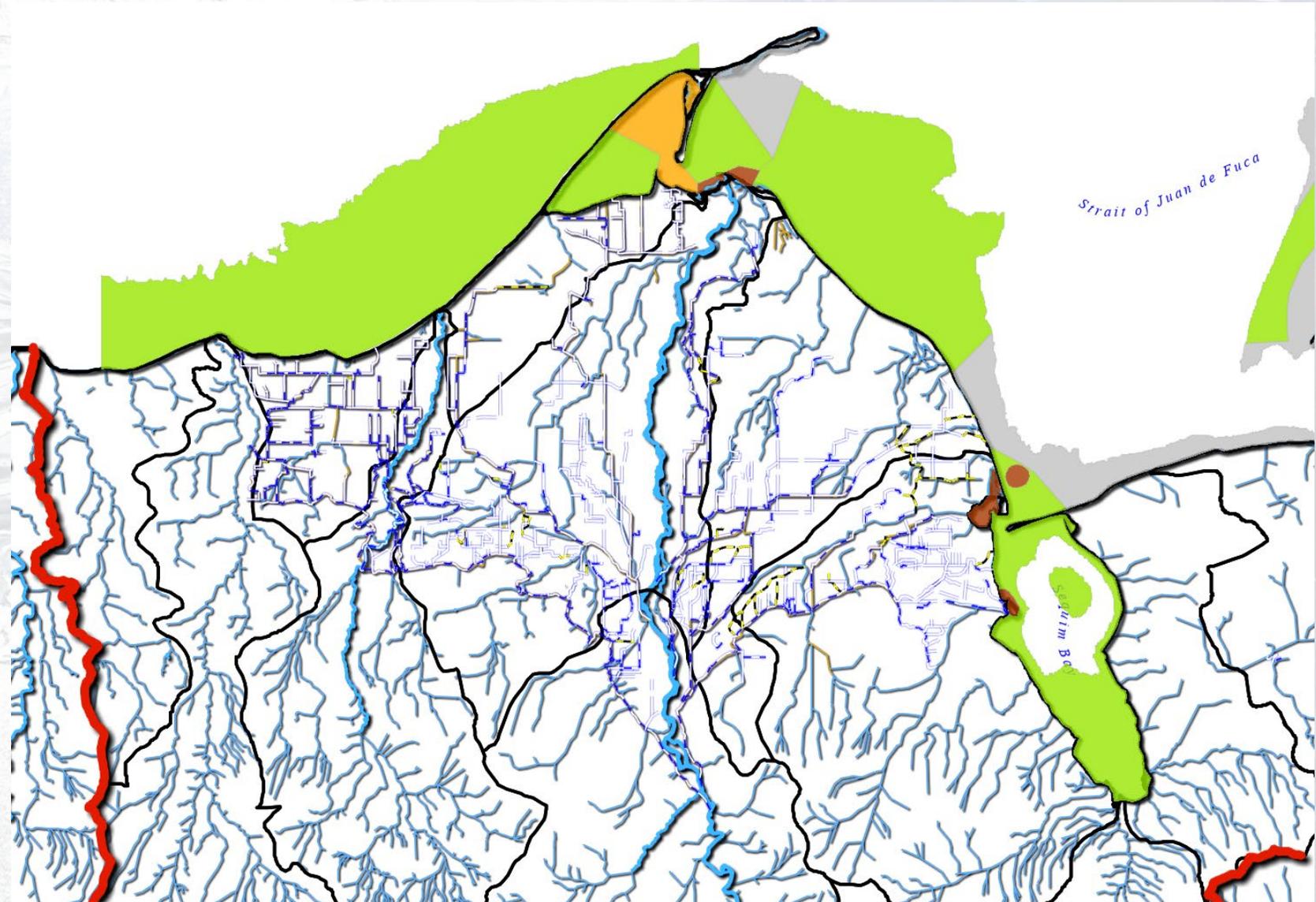
Sequim-Dungeness Irrigation

- 11,000 acres of farmland are served by irrigation.
- The CCD has been actively involved in piping irrigation ditches in the Sequim-Dungeness Valley for over 25 years to conserve water and protect water quality. Over 66 miles of ditch have been piped since 1999.

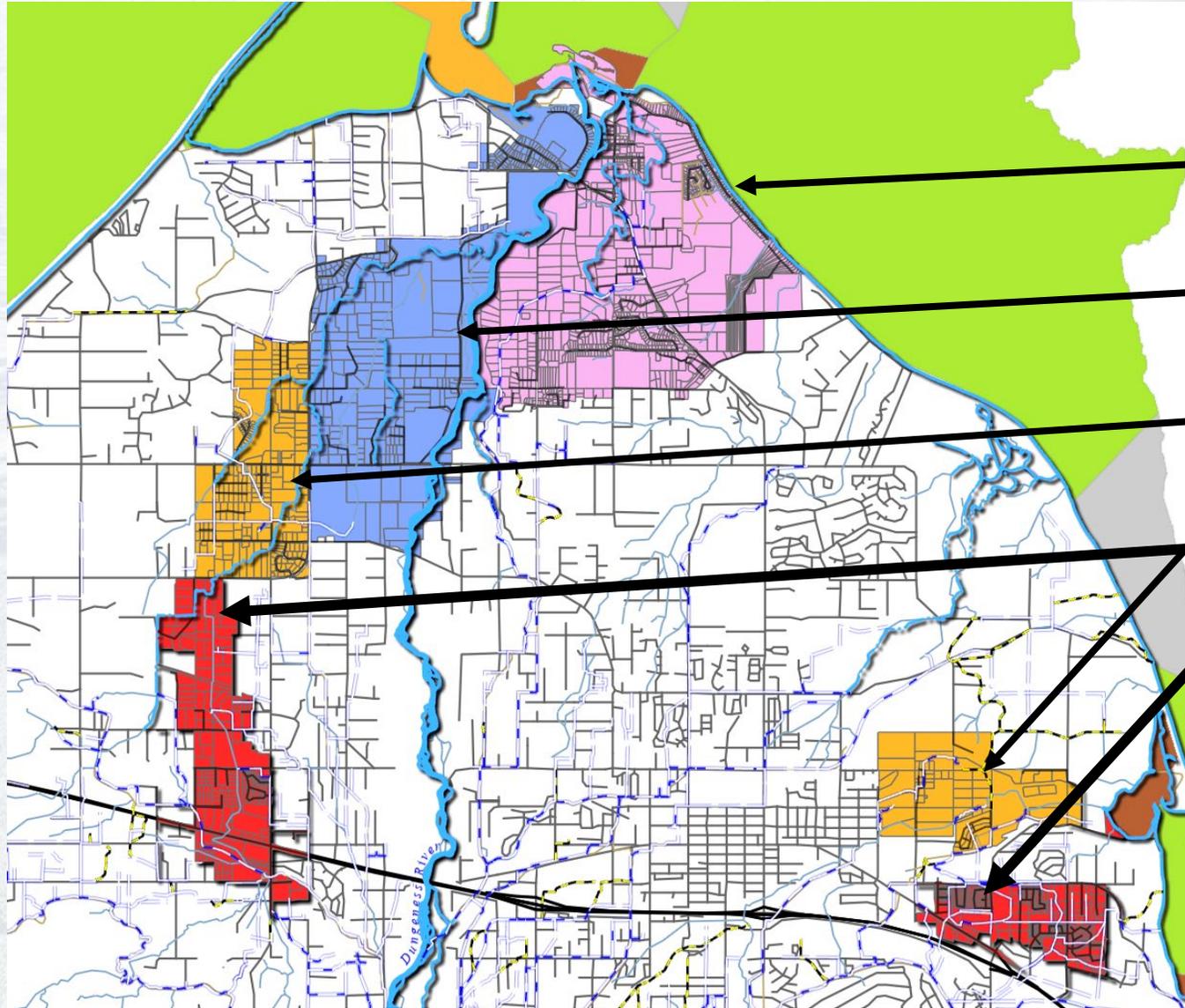


Sequim-Dungeness Shellfish Growing Areas

- 18,000 acres of shellfish growing area are protected by the CWD (~75% of the County's Growing Area acres).
- Currently, in Dungeness Bay, 1,374 acres are Conditionally Approved and 80 acres are Prohibited.
- In Sequim Bay, the Lagoon at the mouth of Bell Creek is Prohibited due to non-point source pollution.



PIC Focus Areas



Phase I (2015-2017)

Phase II (2017-2019)

Phase III (2020-2022)

Phase IV (2023-2026)



Photos from NOAA Library, Flickr



Water Quality Monitoring with Citizen Scientists since 1999

PIC Open House, May 2025

Joel Green, Streamkeepers Coordinator





Goals:

- Monitor local streams, and gather quality data to guide management decisions.
- Report the information to a variety of audiences
- Facilitate public involvement in Citizen Science and stewardship

Pollution Investigation and Correction (PIC)

- Streamkeepers implements

PIC Trends Monitoring

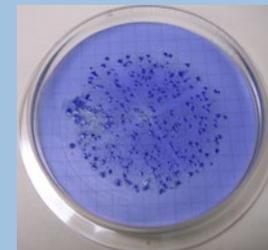


Monitor chemical and physical characteristics of stream water



Grab Sampling

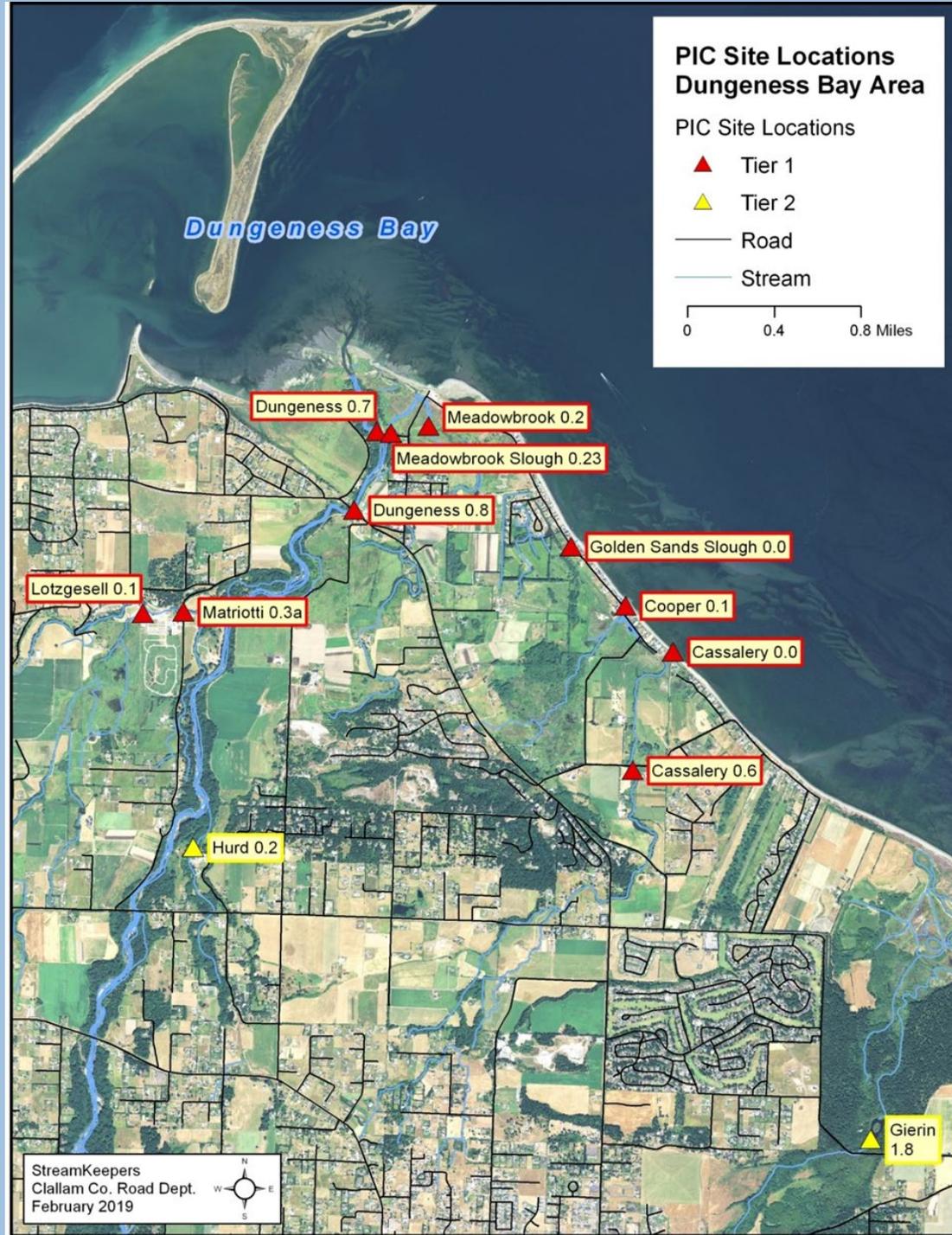
- Bacteria
- Nutrients



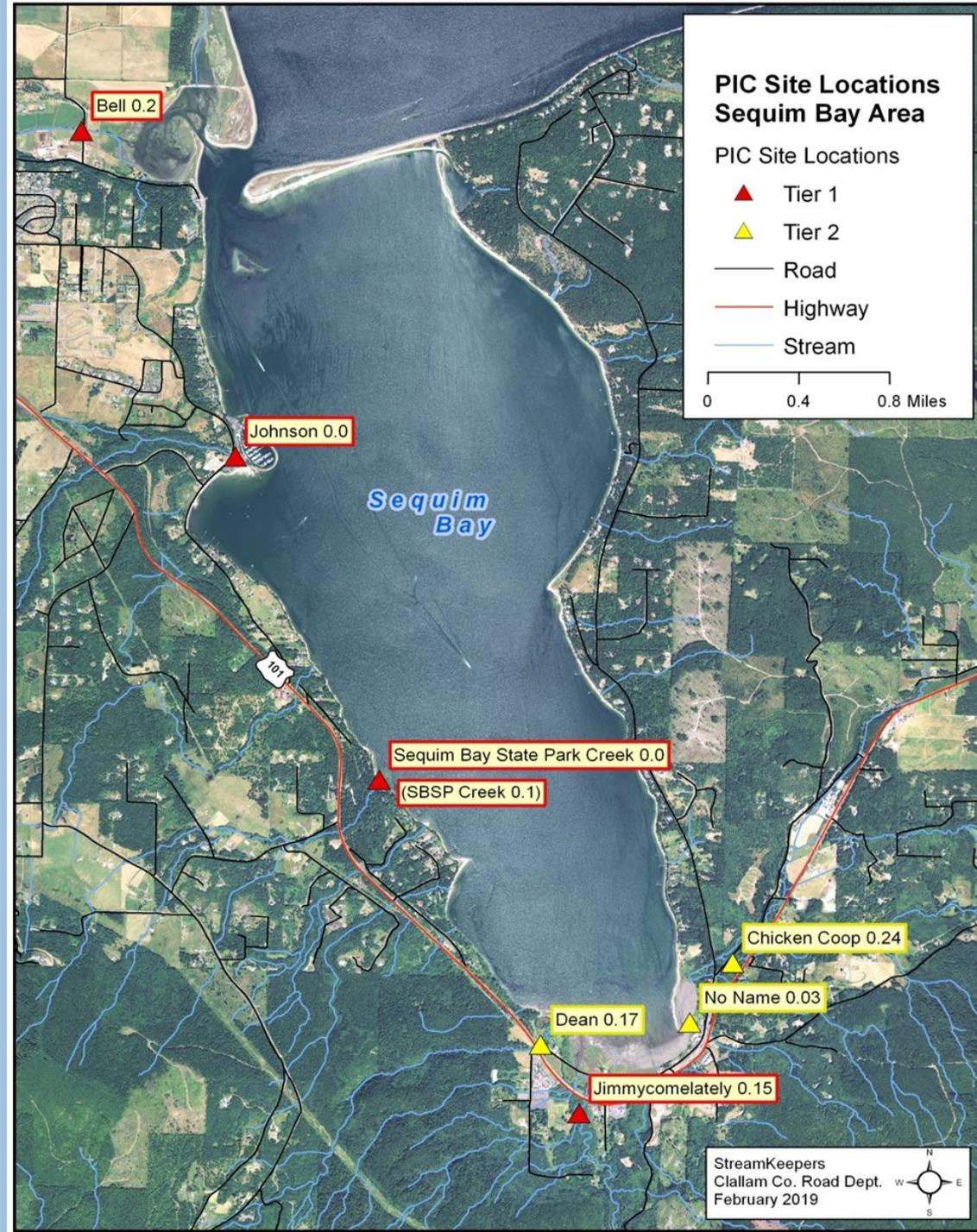
Measuring Stream Flow



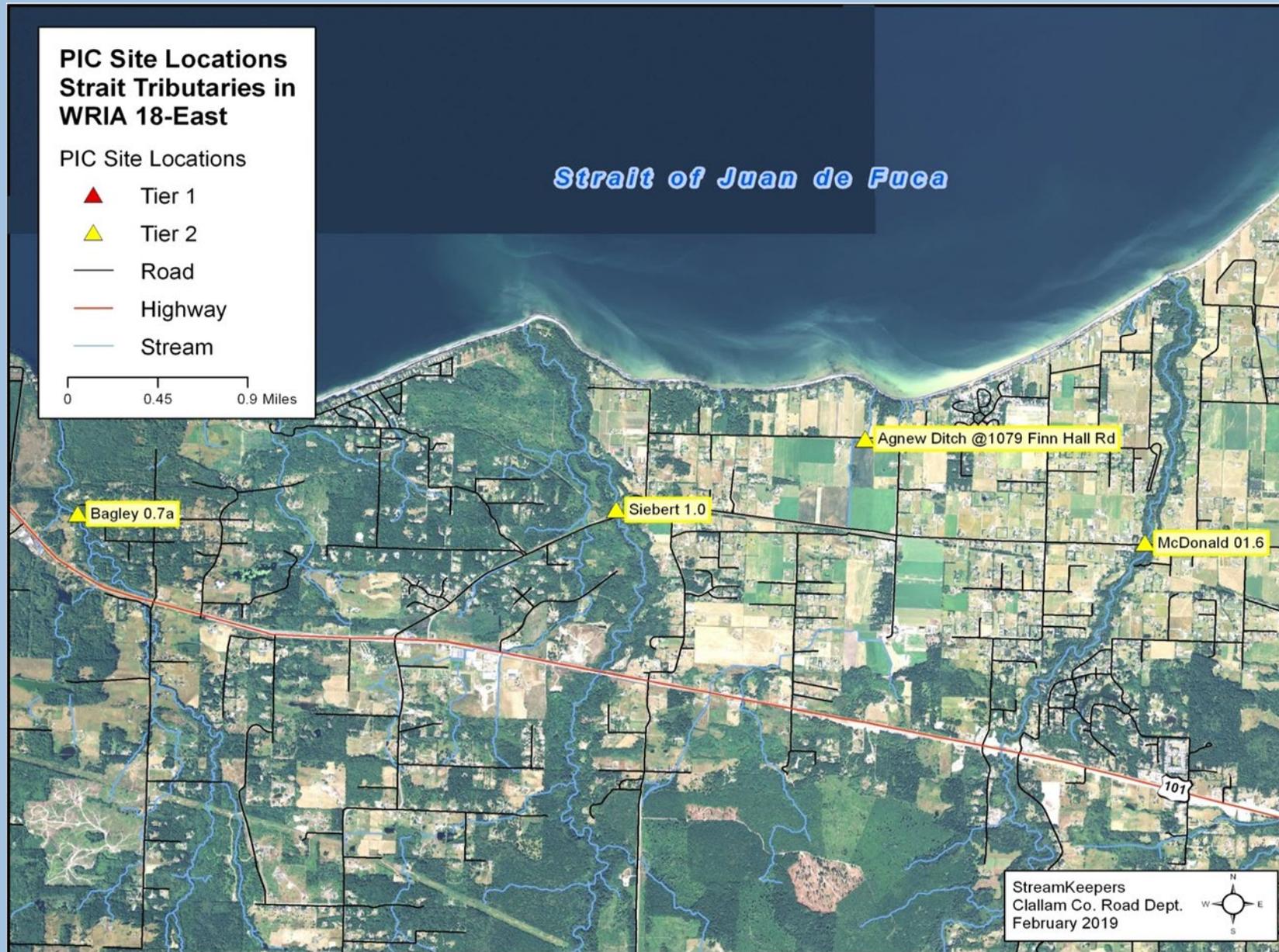
PIC Trends Monitoring Locations in the Dungeness Bay Area



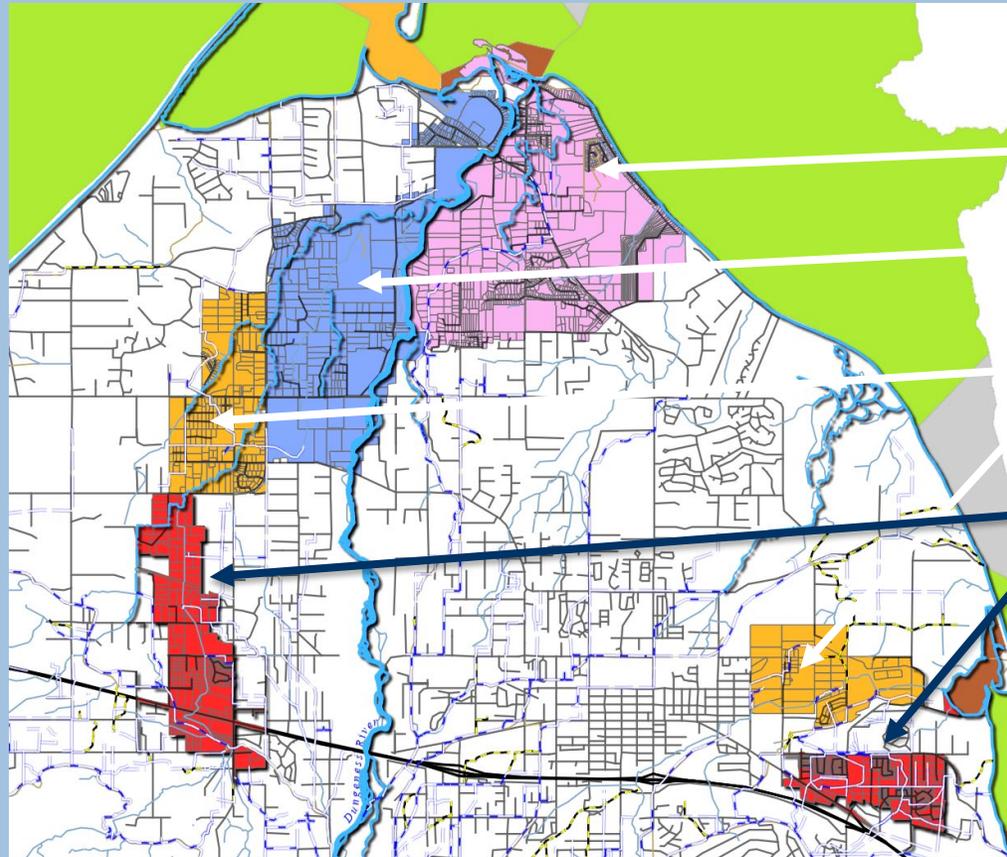
PIC Trends Monitoring Locations in the Sequim Bay Area



PIC Trends Monitoring Sites West of Dungeness Bay



PIC Segmented Sampling



Phase I (2015-2017)

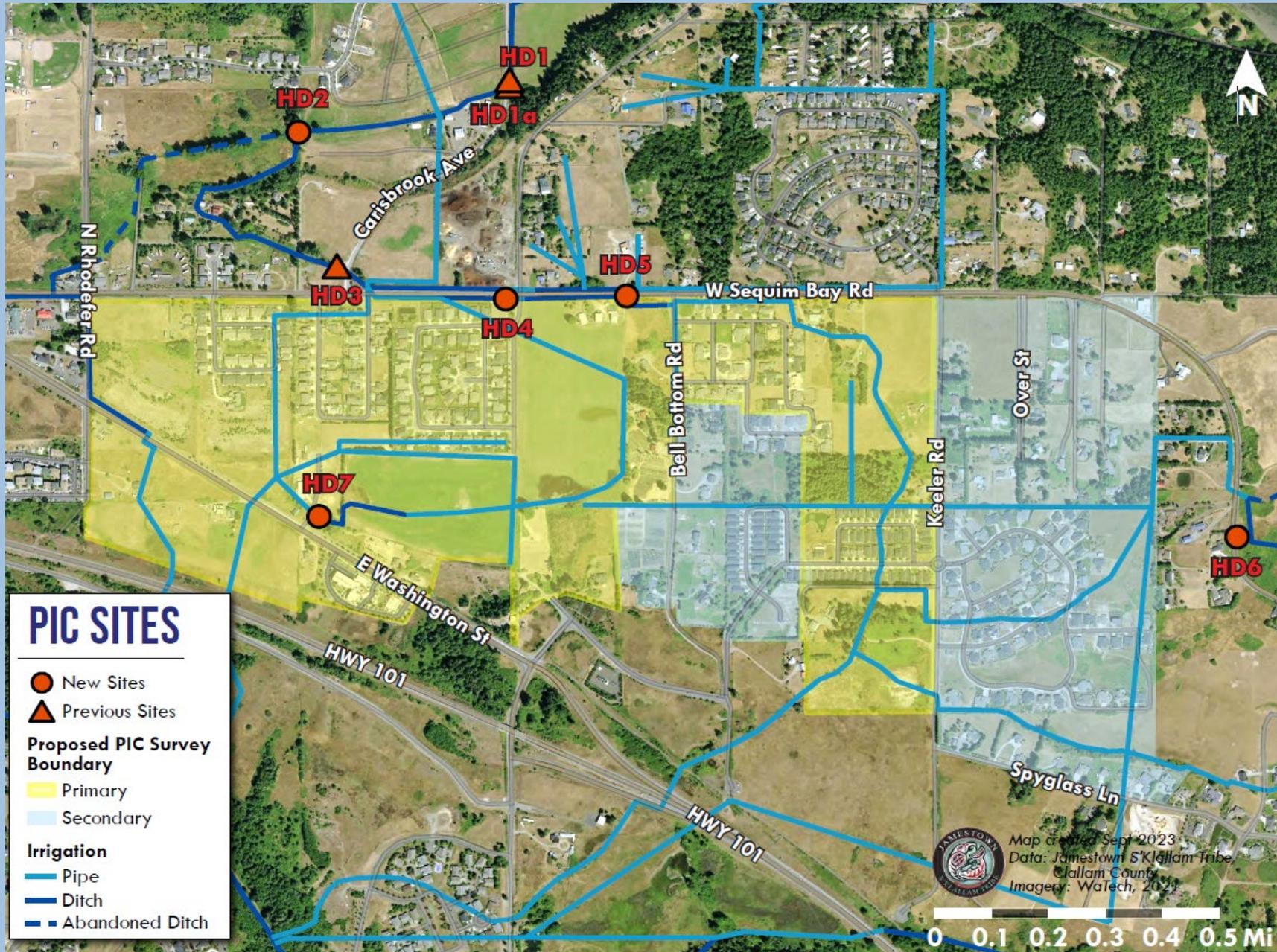
Phase II (2017-2019)

Phase III (2020-2022)

Phase IV (2023-2026)

Phase IV Focus Areas: Matriotti and Bell Creeks

Highland Irrigation Ditch flows into Bell Creek



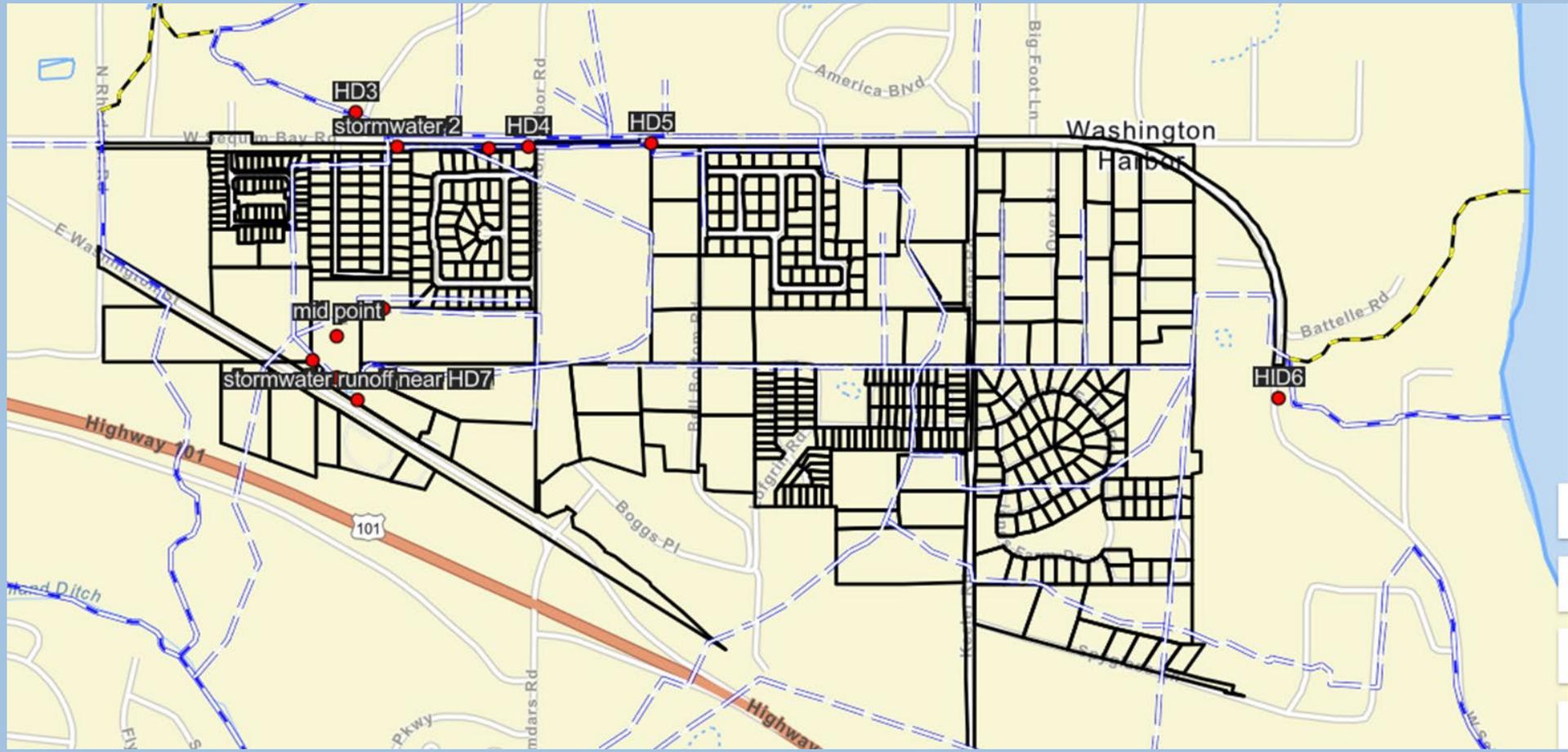
HD2



Highland Irrigation Ditch fecal coliform data

	HD1	HD2	HD3	HD4	HD5	HD6	HD7
6/17/2024	34			34	50	8	
7/25/2024	34			12	62	320	
8/19/2024	42				126	22	
10/16/2024	38						
11/5/2024	4						
2/25/2025	152		400		1	118	
3/4/2025			90		10		
3/6/2025	12	12	12				4
3/25/2025	150		50	30	10		930
3/31/2025	44	10					4
4/1/2025	110						60
4/24/2025	10	130	150	50	40	20	10
		High Prio	> 400 FC / 100mL				
		Medium Pr	100 to 399 FC / 100mL				
		Low Priorit	50 to 99 FC / 100mL				
			<50 FC / 100mL				

Highland Irrigation Ditch



Matriotti Creek

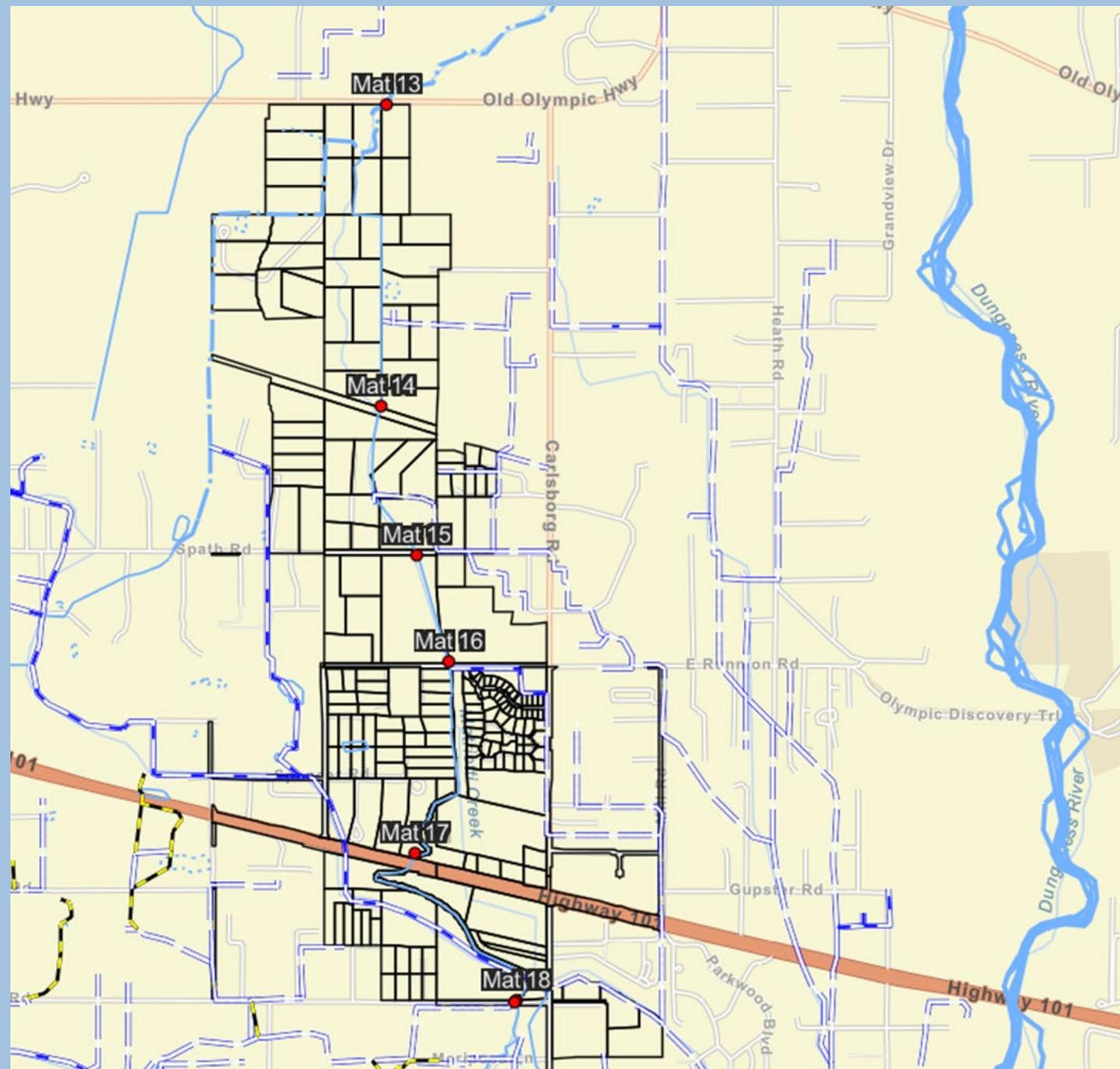
Trends Monitoring



Segmented
Monitoring



Matriotti Creek



Matriotti Creek fecal coliform data

	MAT13	MAT14	MAT15	MAT16	MAT17	MAT18
4/16/2024	88				48	280
6/17/2024	78				420	18
7/25/2024				118	210	36
8/19/2024	200				168	496
9/24/2024					6	560
10/16/2024					2	400
11/5/2024					4	34
2/25/2025	56		122	136	114	162
3/25/2025	50		20	90	80	30
4/24/2025	60			10	10	20
		High Priorit	> 400 FC / 100mL			
		Medium Pr	100 to 399 FC / 100mL			
		Low Priorit	50 to 99 FC / 100mL			
			<50 FC / 100mL			

PIC water quality monitoring

- **Trends monitoring** identifies streams with high levels of bacterial pollution
- **Segmented monitoring** identifies hotspots on those streams

Get Involved!

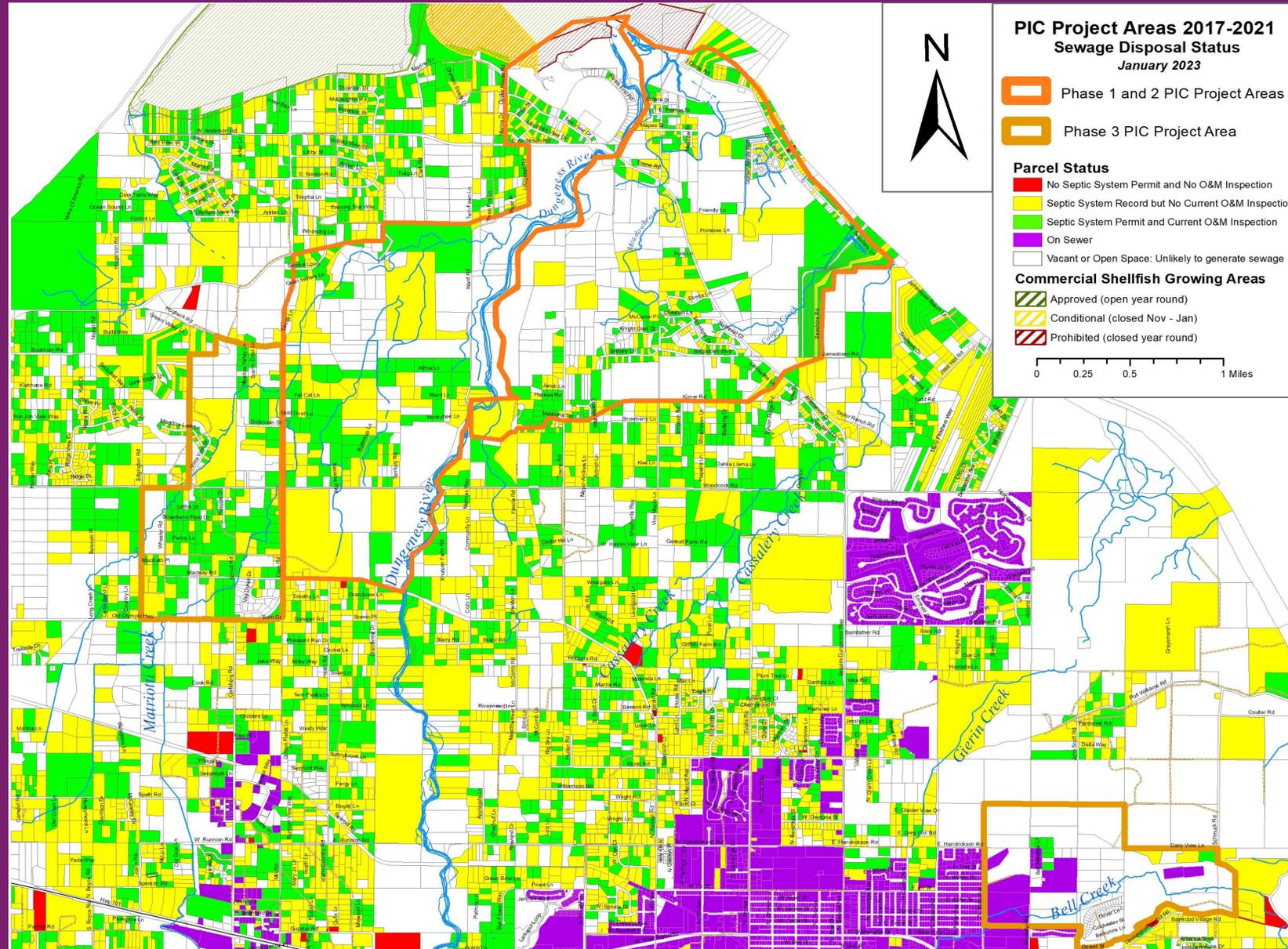


We welcome your participation

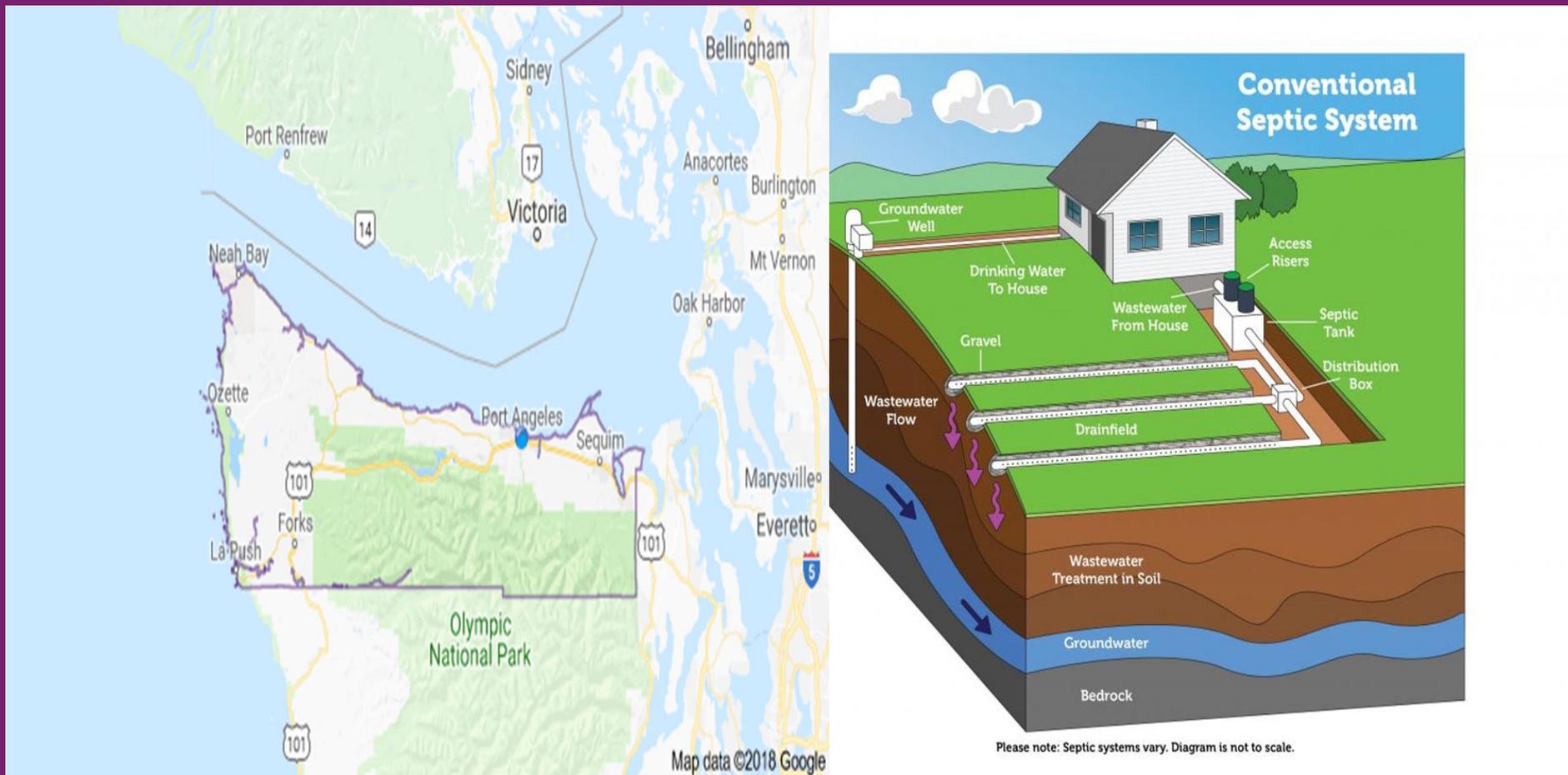
- (360) 417-2281
- Streamkeepers Coordinator
Joel Green's cell #:
 - (360) 325-3979
- streamkeepers@clallamcountywa.gov

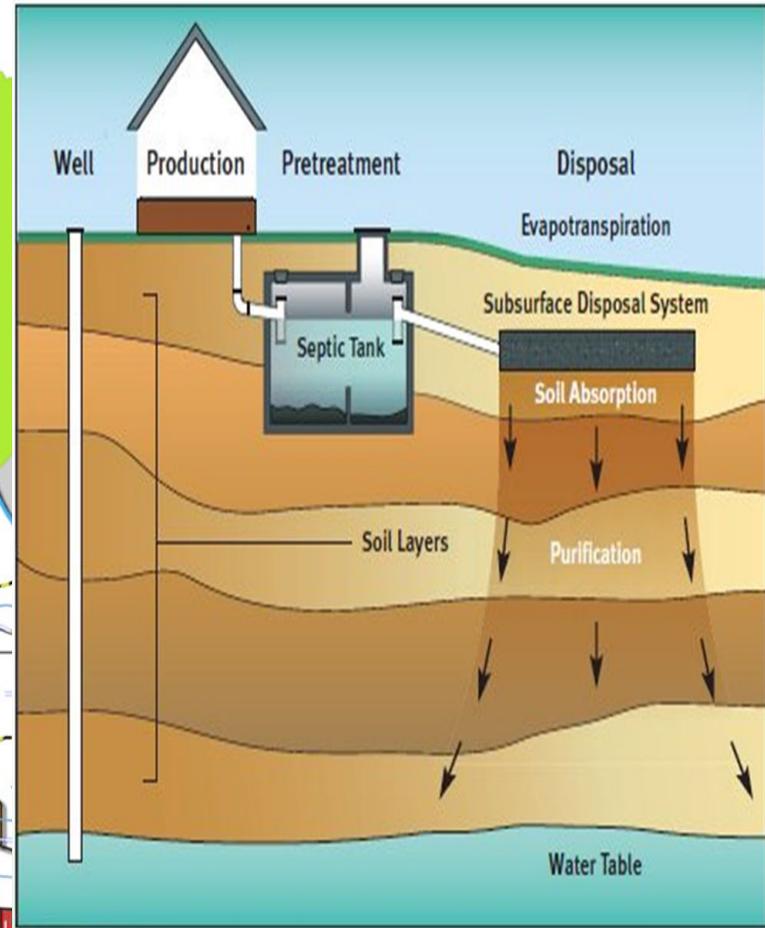
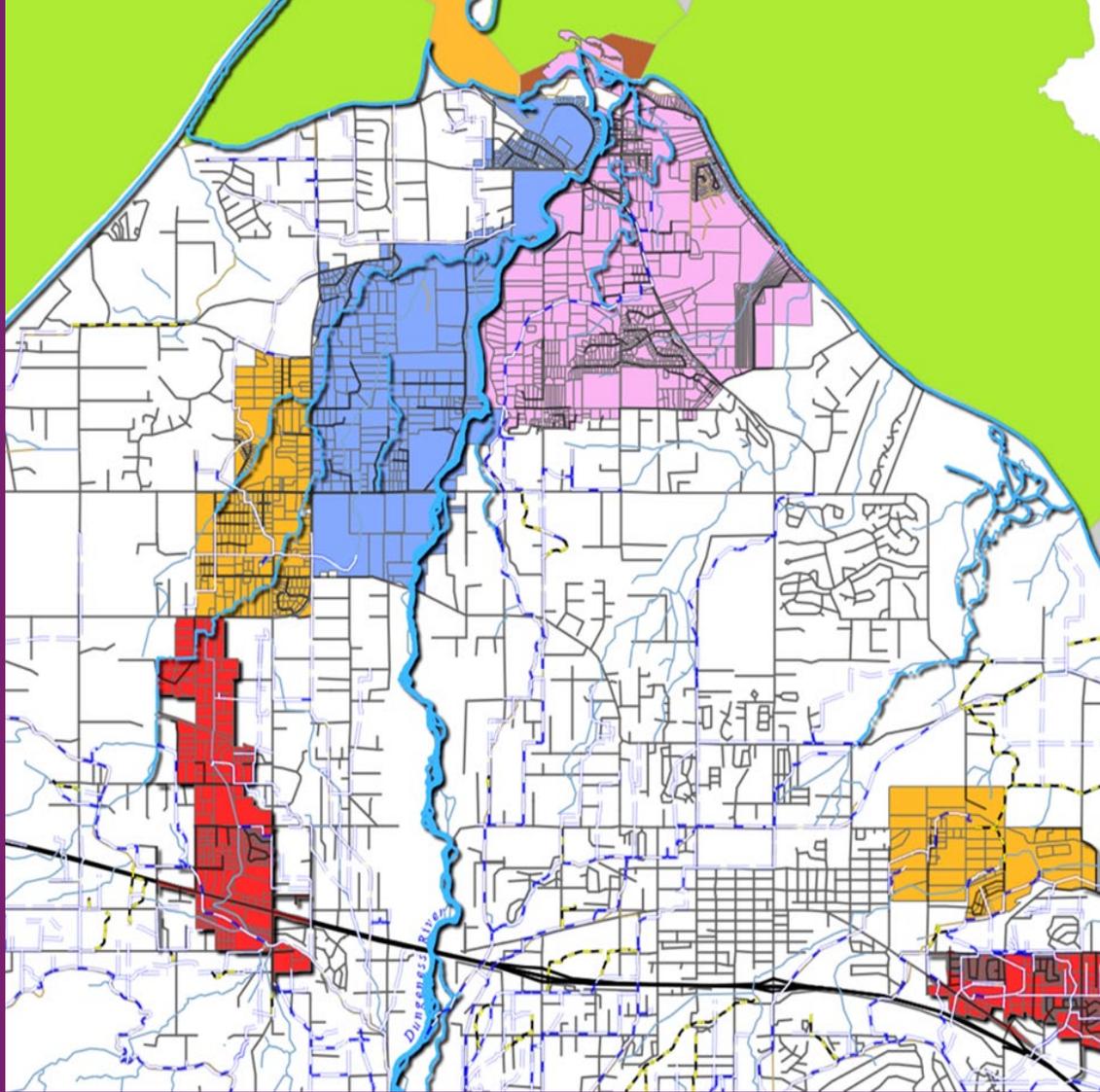


Septic System Status Inspections in next Pic focus areas



There are over 20,000 Septic systems in Clallam County

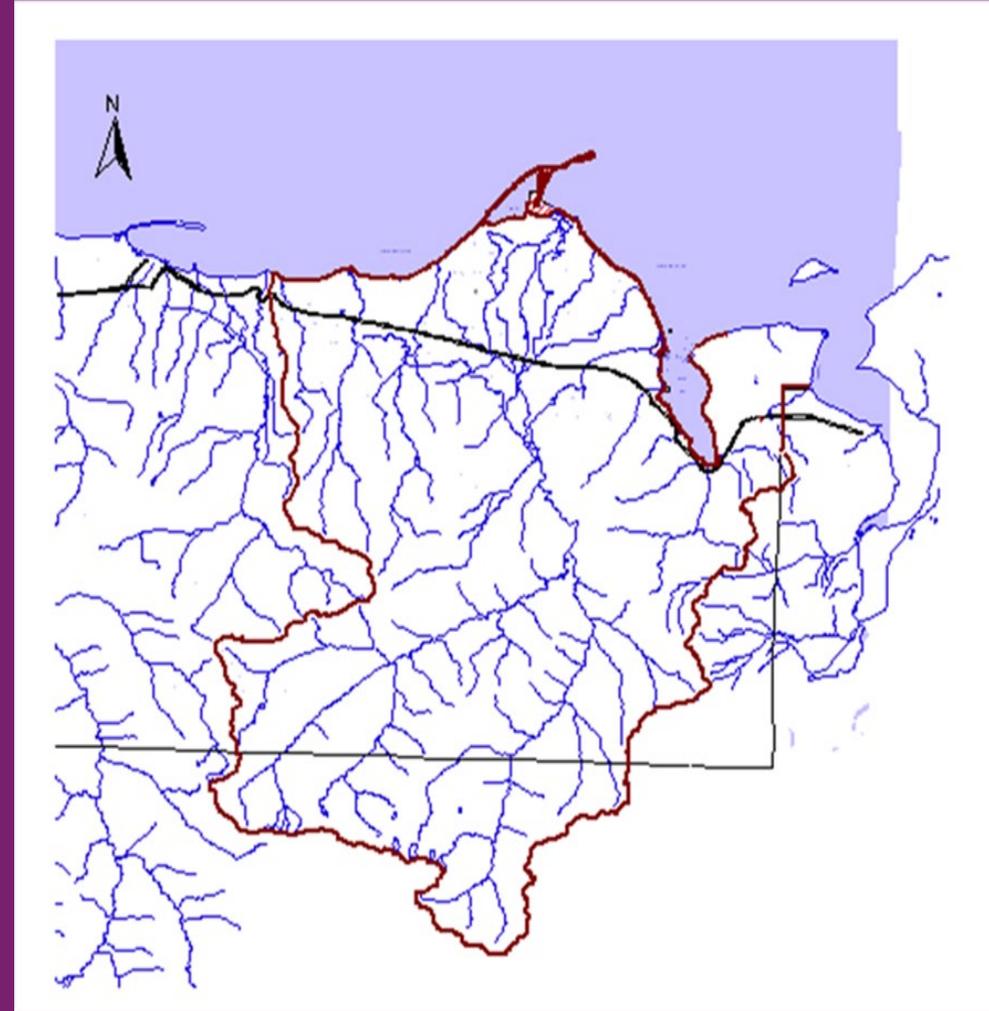




There are over 12,000 septic systems in the Marine Recovery area

Marine Recovery Area (MRA)

Established in 2008
due to water quality
concerns in the
watershed



Regulations

2007 OSS State Code

WAC 246-272A-0270

- Requires that homeowners properly maintain and inspect their OSS (onsite septic systems).
 - Gravity OSS must be inspected at least once every 3 years.
 - Alternative systems (i.e., those with pumps) must be inspected every year.

Inspection requirements took effect July 1, 2007

Septic System Status Inspections



Failing septic systems can pollute streams and waterways and be a significant health threat

When you realize your dog wasn't playing in mud this whole time

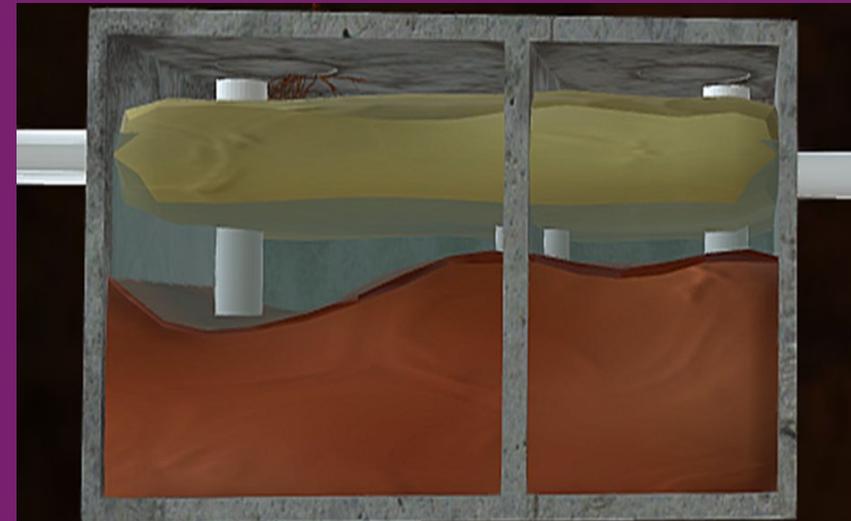


What do you mean, "septic tank"?

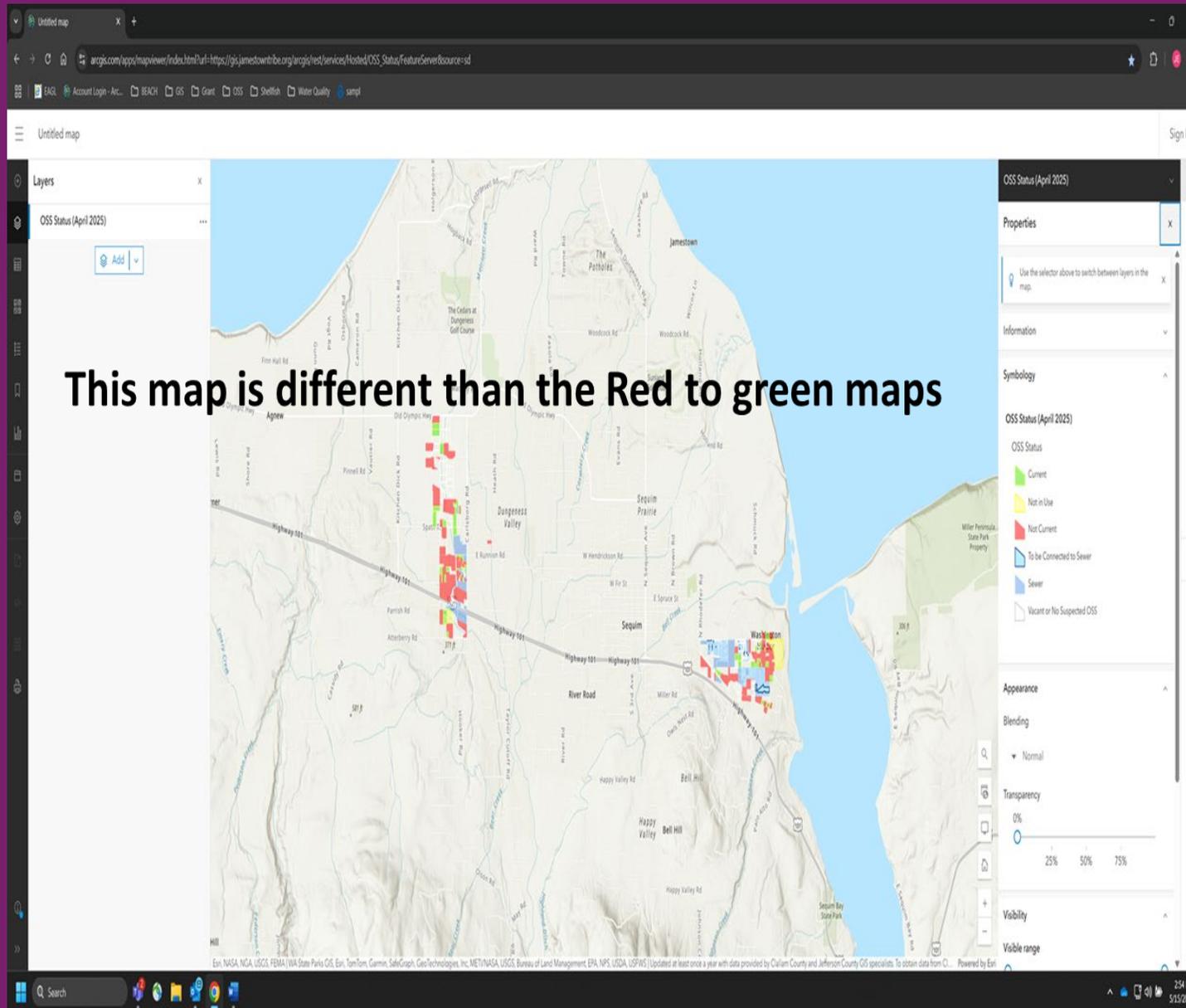


There are benefits of getting septic system inspections

- Regular inspections can:
 - Identify minor problems before a failure occurs
 - Determine when the tanks need to be pumped
 - Extend the life of your septic system with regular maintenance



Next PIC focus areas Septic System Status Maps



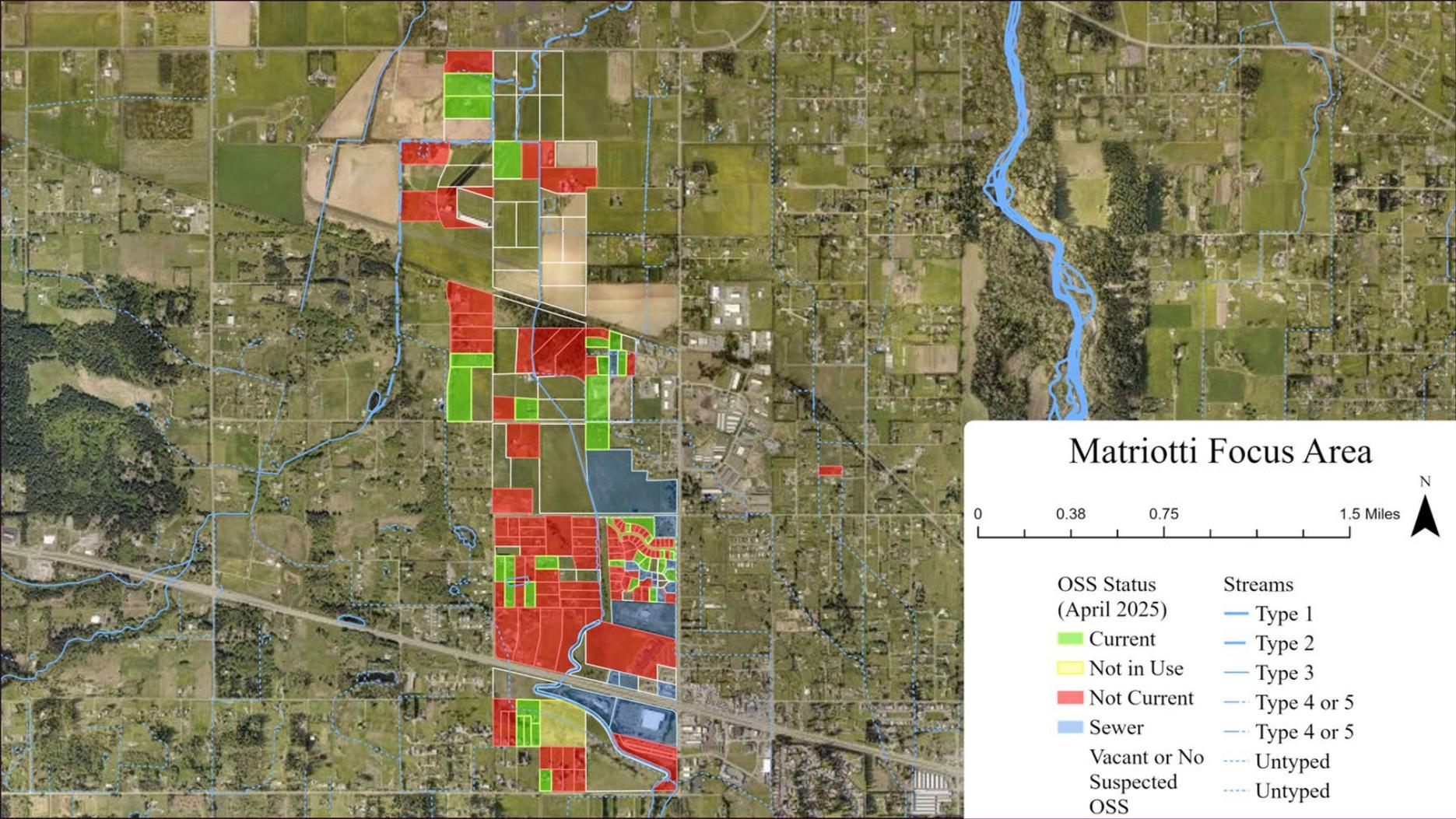
Red=septic inspection is not current

Green=reports current

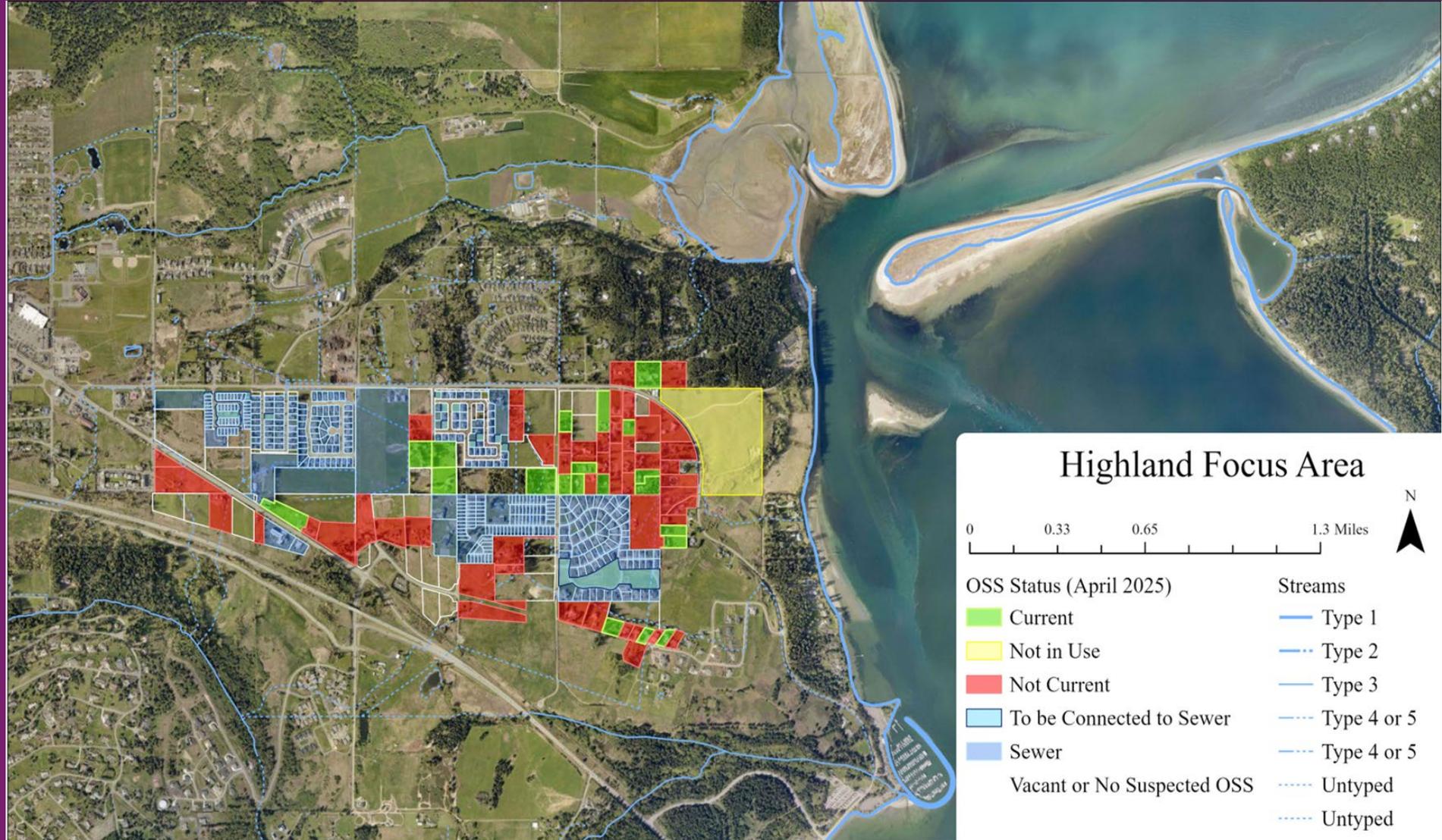
Blue means property is on sewer

Yellow means septic not in use

Septic system Status Maps Upper Matriotti



Septic System Status maps Bell Creek area



Good news! Clallam EH has money available through our rebate program

Rebates available for primary residences only- one household per year

There is up to \$800.00 available for low income property owners

Up to \$300.00 for all other property owners



Clallam County Department of Health and Human Services Environmental Health Department

- Mailing Address: 111 E. 3rd Street EH OSS Rebate Program c/o Sandra White Port Angeles, WA 98362
- Physical Address: 223 E. 4th Street, Room 130 Port Angeles, WA 98362
- Septic/Application Questions: 360-417-2506 or EnviroHealth@clallamcountywa.gov

SEPTIC SYSTEM REBATE REQUEST

January 1, 2025 - November 30, 2025

Complete sections #1-5 below and submit this form to Environmental Health along with a copy of your **PAID** receipt showing the total cost paid for the septic service. Rebates are prioritized while funds last.

Request does not guarantee payment. Refer to **conditions** on the following page for eligibility.

1. Contact Information

Name(s) of property owner(s): _____

Mailing address: _____

Street City State/Zip

Email: _____ Phone: _____

2. Septic System Information

Site address: _____

Street City

Parcel number: _____

3. Request - Please check the Rebate box below:

Reimbursement amounts are based on actual costs (PAID invoice amount).

REBATE

- Reimbursement for septic system inspection and/or locate, **up to \$300**, based on actual costs.
- If additional work is needed to address septic system deficiencies, as noted on inspection report, reimbursement is allowed **up to \$800**, based on actual costs.
(Additional work may include septic tank pumping, adding risers, jetting pressurized drainfield, replacing minor components for maintenance, or decommissioning of a septic tank no longer in use) see #19

4. Please check all boxes to confirm the following are true (All boxes must be true & checked for rebate)

- I had my septic system inspection/locate and/or work done by a licensed provider.
- I have attached receipt(s) showing the actual cost paid for the service(s) performed.
- The service was not performed for the sale of a property, nor to obtain a building permit.
- This is my primary residence, and not a rental property.

5. Declaration

I have read all conditions below and I declare under penalty of perjury that all my statements above are true and complete.

_____ (print name)

_____ (signature)

_____ (date)

Beginning July 1, money is available for:

1. Septic system inspections

2. Septic system locates:

❖ for unknown systems

3. Pumping of septic tanks

❖ if inspection determines it is necessary



**PUMPING IS NOT THE
SAME AS AN
INSPECTION!!!!**



Money is also available for:

4. **Jetting pressurized drainfields**

- To clear out drainlines

5. **Minor repairs:**

- such as d-box repair, broken transport lines

6. **Decommission old septic tanks**

- Pump, crush, and fill of old septic tank.

7. **Installation of risers:**

- on tanks and d-boxes/replacing broken riser lids



- All reimbursements/rebates require a professional inspection first

What does not qualify:

- Inspections for property transfers, building permits, or land divisions



Inspections for rental or commercial properties

Rebates available July 1, and last until funding runs out



What if the inspection shows the septic system is failing?

There are several options for funding septic repairs



Craft 3 has funding for low-income homeowners through low interest loans

The Conservation District has some funding available

USDA also has some funding for repairs

Pick up rebate forms at the EH table

Grab Sandra White's business card for application forms or for more information

Attend a free Septic 101 class this fall





Clallam Conservation District

Pollution Identification & Correction (PIC)

May 29, 2025

Jennifer Bond

Quentin Norcutt

Clallam Conservation District (CCD):

- Sub-division of state government created in 1959 to conserve the natural resources of Clallam County.
- Help land users manage natural resources sustainably.
- NOT a regulatory agency
- Funded by grants.



Board of Supervisors

Christy Cox, Chair

Wendy Rae Johnson, Auditor

**Supervisors: Lori DeLorm, Ben Smith, Maggie
Bockart**

Staff

- **Kim Williams, District Manager**
- **Meghan Adamire, Conservation Planner**
- **Jennifer Bond, Conservation Planner (1/2 time)**
- **Kevin Merrigan, Conservation Technician**
- **Quentin Norcutt, Conservation Technician**
- **Heather Ginn – Office Administrator**

Annual Native Plant Sale



Low-Cost Soil Testing Program



CCD & PIC:

How we help identify & fix water pollution problems:

- **Assistance to horse/livestock owners and farmers.**
- **Assistance to homeowners with failing onsite septic systems.**
- **Assistance to streamside landowners for planting buffers.**



Horse/Livestock & Farms

- Free technical assistance & site visits
- Long, successful history of cost-share assistance on farms:
 - Fencing livestock away from streams
 - Manure storage structures
 - Heavy use areas for animal confinement/
winter feeding
 - Roof runoff management on barns









Workshops for Horse & Livestock Owners



Onsite Septic System Repair Financial Assistance

- Program began in 2014
- Funded by various grant sources including Dept. of Ecology and WSCC-Shellfish program.
- 31 projects completed to date
- 3 projects currently in progress



Program Details

Program Reimburses:

- 100% of design costs
- 100% of permit costs
- 50-75% of installation costs
 - Craft3, Rural Development can also help



Program Eligibility

- **Must be owner-occupied (rental properties are not eligible).**
- **Failing OSS must impact nearby waterways.**
- **Referred to CCD by Clallam County Environmental Health**
- **Homeowners must attest to not having the financial resources to fix/replace the failing system on their own.**



OSS COST-SHARE STEPS

1. Homeowner referred to CCD by CCEH.
2. Homeowner submits cost-share application.
3. CCD applies for funding from WSCC.
4. CCD board approves/rejects application (applicant encouraged to attend board meeting).
5. Homeowner hires a licensed designer.
6. Homeowner obtains 3 bids from licensed installers.
7. Funding award based low bid, however homeowner can hire whichever contractor they choose.
8. System is installed/repaired, homeowner reimbursed (50-75%) upon CCEH approval.
9. Homeowner reimbursed for design and permit costs.
10. O&M plan required for each system.



Streamside Landowners

- Free technical assistance & site visit
- Conservation Reserve Enhancement Program (CREP)
- Riparian Grant Program(100% of riparian planting costs covered by this program)



What is a Riparian Buffer?

Riparian buffers are vegetated zones adjacent to streams and wetlands



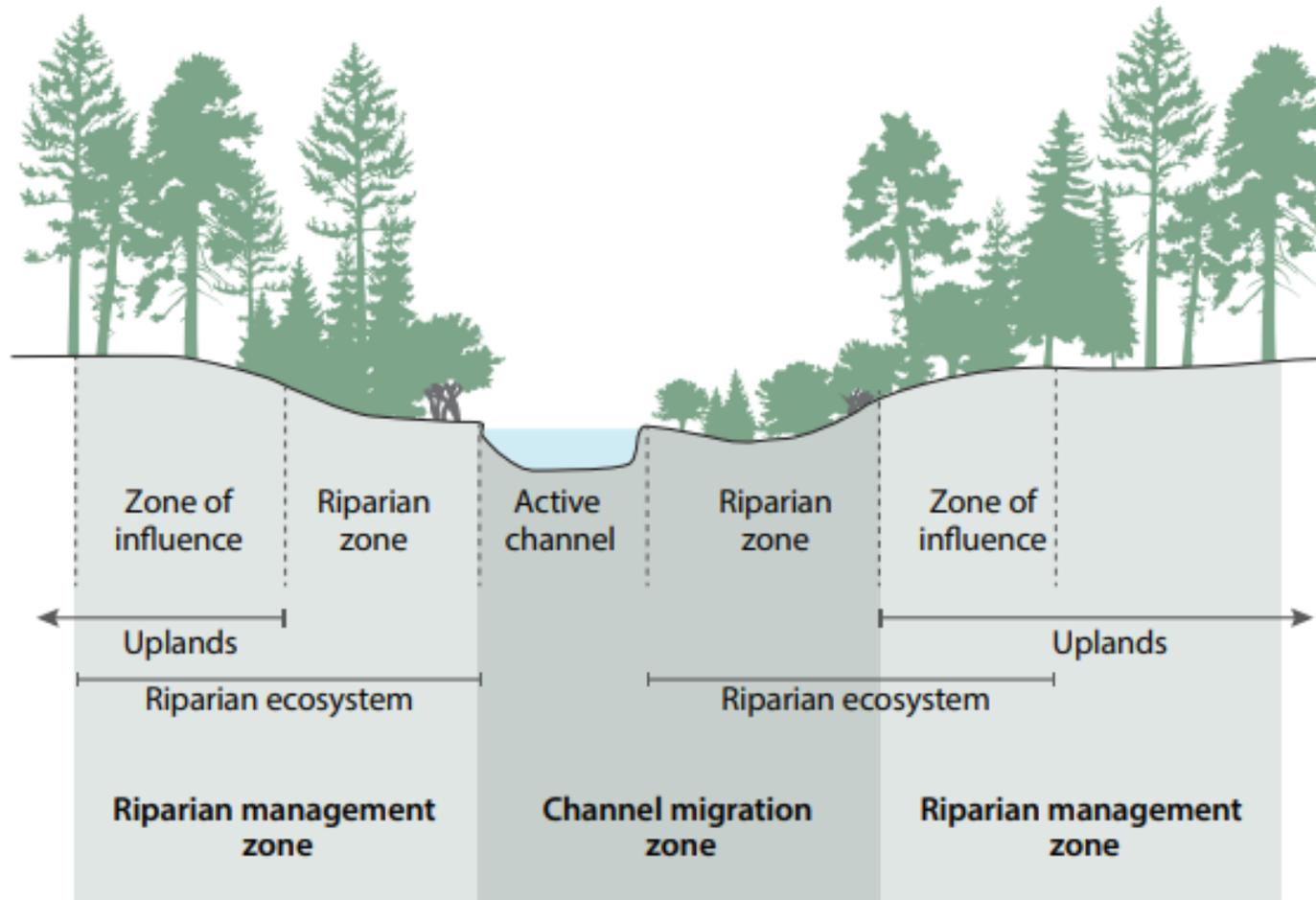
Forested
Buffer



Farmland



Riparian Zone



Benefits of Riparian Buffers

- **Vegetation can stabilize the bank and reduce the risk of erosion**
- **Can reduce impact of flooding**
- **Attract pollinator species**
- **Riparian buffers can filter for sediment and pollution**
- **Shade can cool down stream**
- **Fallen trees provide habitat for fish and macroinvertebrates**



CREP

Conservation Reserve Enhancement Program

Clallam River



Clallam Conservation District

CREP DETAILS

- **Financial incentives to restore riparian areas.**
- **Federal-State partnership between Farm Service Agency (FSA) and Washington State Conservation Commission.**
- **Planning, technical assistance and program delivery provided by Conservation Districts.**





CREP ELIGIBILITY

- Land must either be, or have been:
 - Cropland
 - Pastureland
- Less than 30% conifer cover in proposed buffer



WCC Crew Planting CREP Site on Hoko River



Riparian Grant Program

- Program to focus on restoration of areas critical to salmon habitat
- This program helps private landowners to install riparian buffers along streams/rivers



Riparian Grant Program Benefits

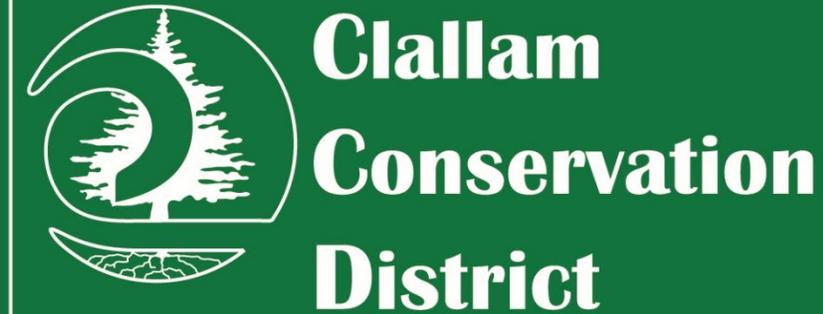
- We provide the planning and technical assistance
- Will cover all the cost of buffer installment
 - Initial weed treatment
 - Purchasing of plants
 - Planting
 - Riparian fencing (if needed)
 - First year maintenance, ongoing maintenance as funding allows
- Short-term installments, no long contracts and
No minimum acre requirement



RGP Site Along Big River



Thank You!



Visit us on the web at www.clallamcd.org

Contact Emails

Jennifer Bond: jennifer.bond@clallamcd.org

Quentin Norcutt: quentin.norcutt@clallamcd.org



Explore our interactive PIC map



DEPARTMENT OF
ECOLOGY
State of Washington

