



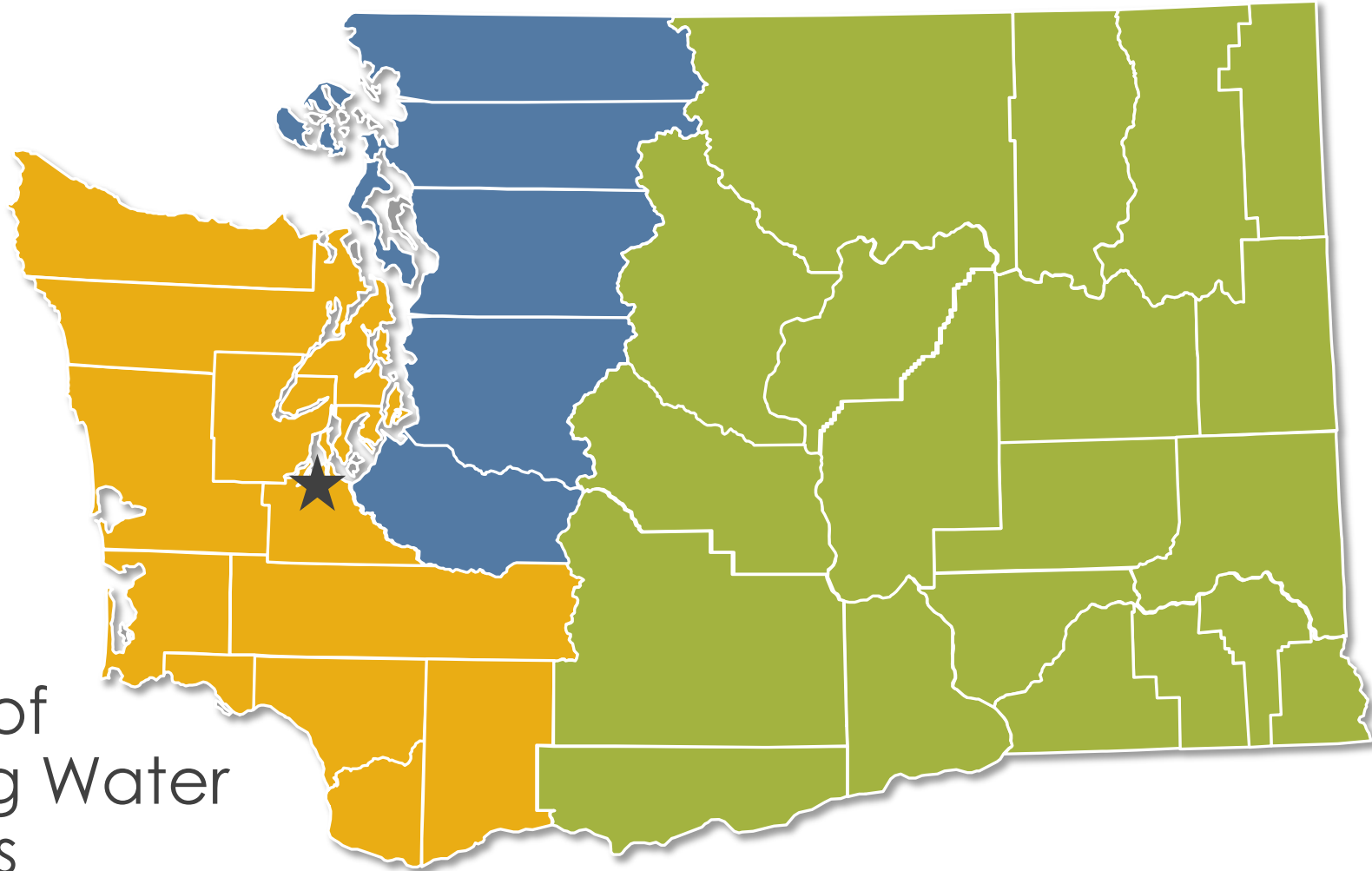
We work with others to protect the health of the people of Washington State by ensuring safe and reliable drinking water.



RTCR Assessments – What Have We Learned?

PNWS AWWA – May 20, 2021
Office of Drinking Water





Office of Drinking Water Regions

- Northwest
- Southwest
- Eastern
- ★ Headquarters



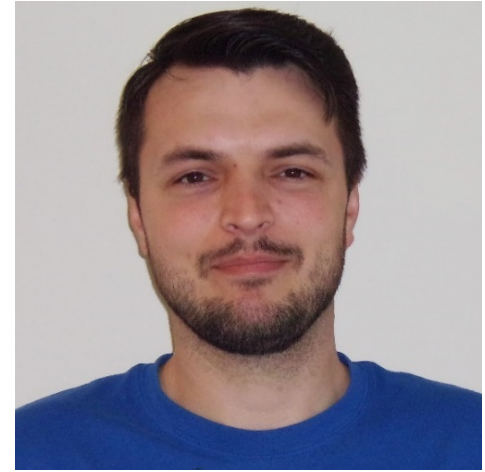
Coliform Program Managers



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Quick Background

Total Coliform Rule

Non-acute MCL

Public Notification Requirement

Find & Fix

Revised Total Coliform Rule

Treatment Technique Trigger

No *Immediate* Public Notification Requirement

Formalized Find & Fix

The Assessment!



Revised Total Coliform Rule

ASSESSMENTS



When is an Assessment Required?

TTT – positive sample

Confirmed total
coliform
contamination in the
distribution system

TTT – repeats

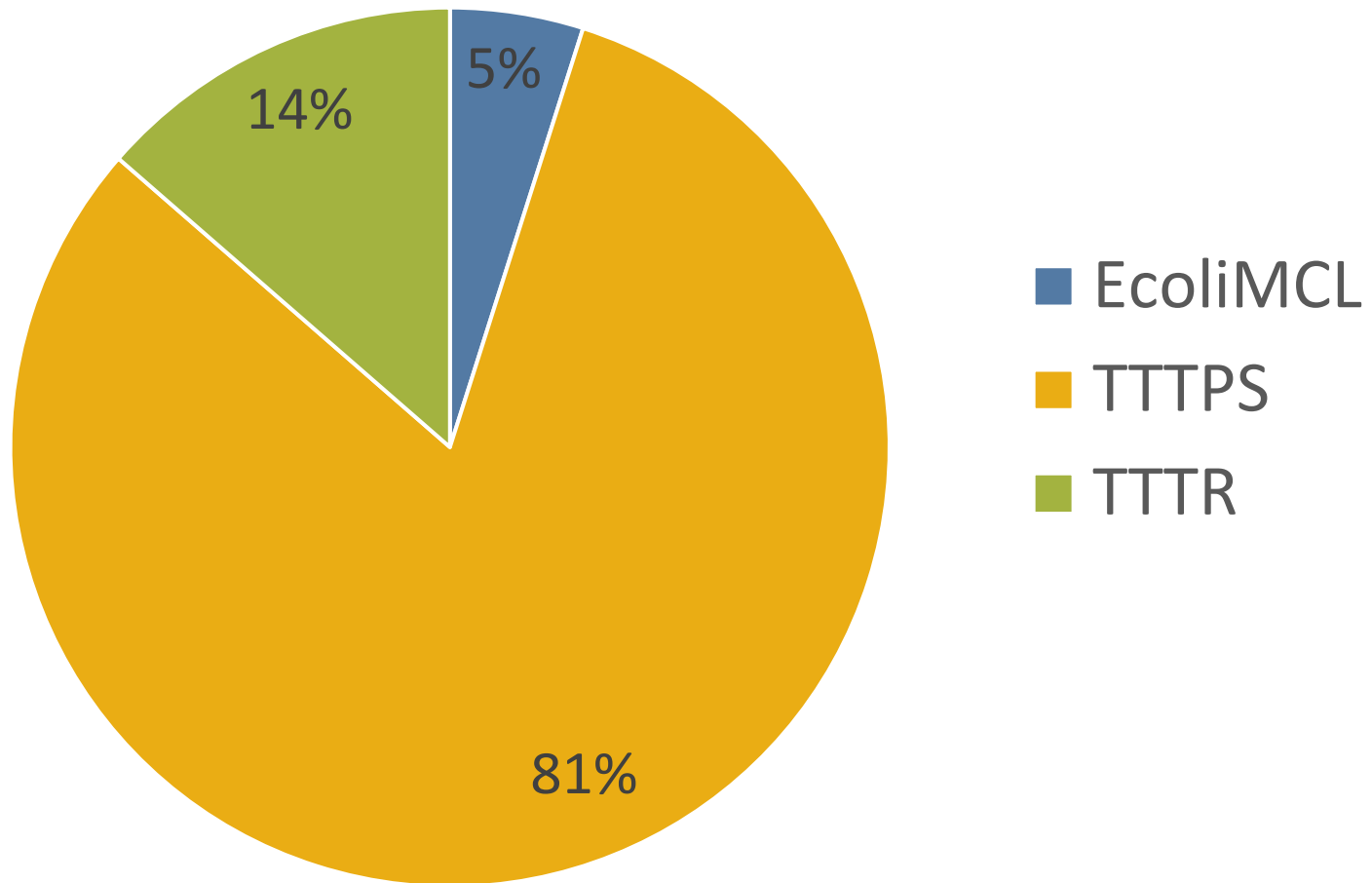
Failure to collect **all**
the necessary repeats

E. coli MCL

Confirmed *E. coli*
contamination in the
distribution system.



Assessments by Incident Type



Data from date range 4/1/2016 through 4/12/2021; n=1000
Over 50% are for system with certified operators



Assessment – Level Up?



Level 1

Basic overview of water system

Can be completed by anyone familiar with the water system

Initial confirmed contamination event (or lack of repeats collected)



Level 2

More complex view of water system

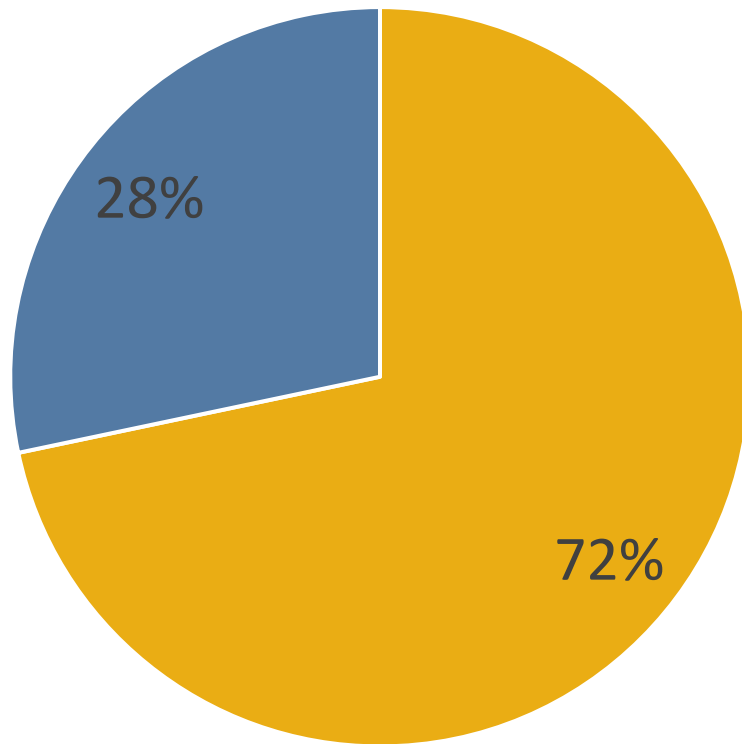
Must be completed by certified operator (WDM2 or higher) or Engineer

Additional confirmed contamination event (or lack of repeats collected) within 12 months

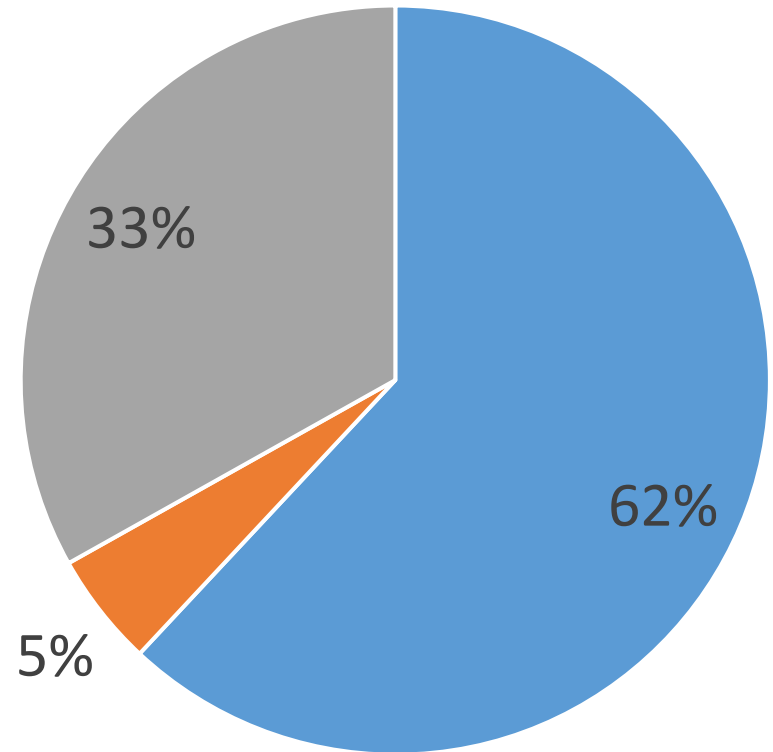
Must be submitted to ODW within 30 days



Comparing Frequency of Level 1 & Level 2 Assessments



■ RTCRLv1 ■ RTCRLv2



■ One and Only One L1A

■ E. coli MCL

■ 2 of More Assessments





Parts of an Assessment: Part B

- Corrective Actions Completed
 - Items that were identified as needing attention, that you or the system have completed.
 - Include the date each item was completed.
 - Submit photos – when appropriate

1. Actions Completed	Assessor: Summarize the issues found where corrective actions have been completed. Include photos, work receipts, or reports to depict assessment findings.	
Describe issue found	Describe corrective action taken	Date Completed



Parts of an Assessment: Part B continued

- Corrective Actions Not Completed
 - Items that were identified as needing attention but have not yet completed.
 - Include the timeline for correcting each item.

Every item marked as corrective action needed in Part A should be referenced in Part B.



Assessments

COMMON FINDINGS





Wellhead Openings

[Pub 331-232 Simple Fixes for Wellhead Openings](#)





Wellhead & Conduit Openings

[Pub 331-232 Simple Fixes for Wellhead Openings](#)





Storage Tank Vents

[Pub 331-250 Sanitary Protection of Reservoirs:
Vents](#)





Storage Tank Hatches

[Pub 331-249 Sanitary Protection of Reservoirs:
Hatches](#)





Weather strip seal on hatch – poor



seal on hatch lid worn



silicone seal on reservoir vent
Poor

Storage Tank Hatches

[Pub 331-249 Sanitary Protection of Reservoirs: Hatches](#)





Distribution Defects

Cross-connections & Repair Procedures

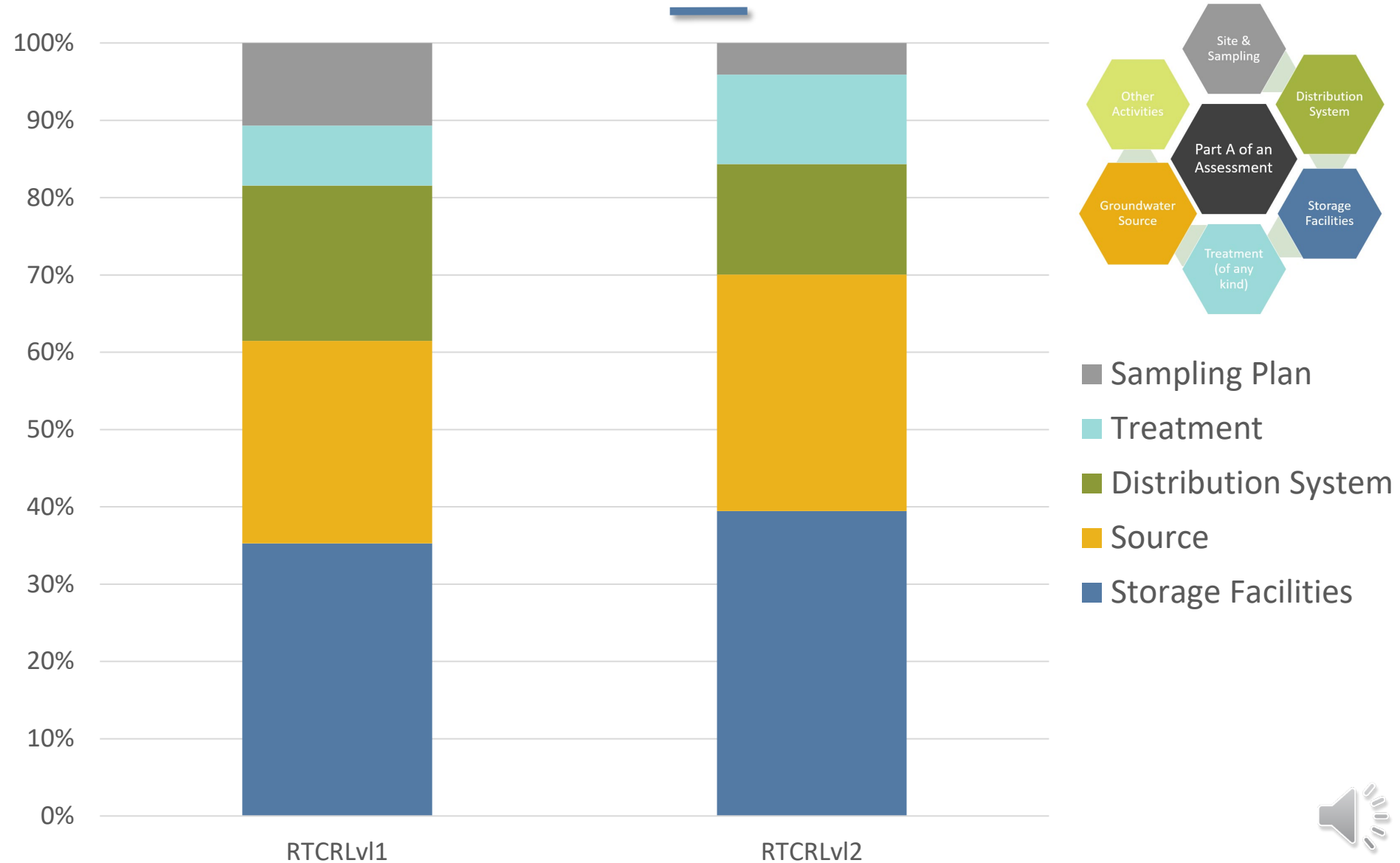


Assessments

DATA EVALUATION



Frequency of Findings by Category





What Can You Do?

1 Be Proactive

Best
Management
Practices

Routine Site
Inspections

Other 29 days of
the month.

2 Sampling

Collect samples
early.

Have a plan.

Sampling Errors
aren't "likely
cause".

3 Every Part is Vulnerable

But focus on the
weak points:

- Storage
Hatch & Vent
- Well Vents &
Conduits

But sometimes, it's time to add approved continuous
chlorination treatment.



Questions?

What struggles do you have?

What can ODW do to help?

Any unique fixes to share?



Contact Information



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