

Water Quality Partnership

Water Quality Program

Sept. 14, 2017



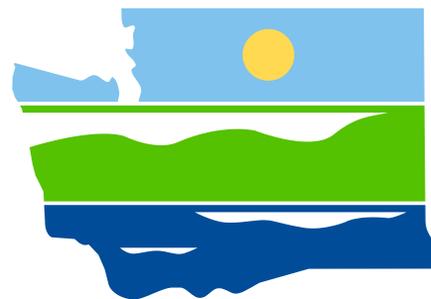
New Deputy Program Manager



Meet Jason Norberg

- New deputy program manager
- Looking forward to working with you on legislative goals
- Looking to bring a fresh approach to tackling our water quality goals
- 22 years of working on the regulated side of waste and stormwater infrastructure
- Working to improve our public information and database interfaces

Lack of a capital budget and water quality grants

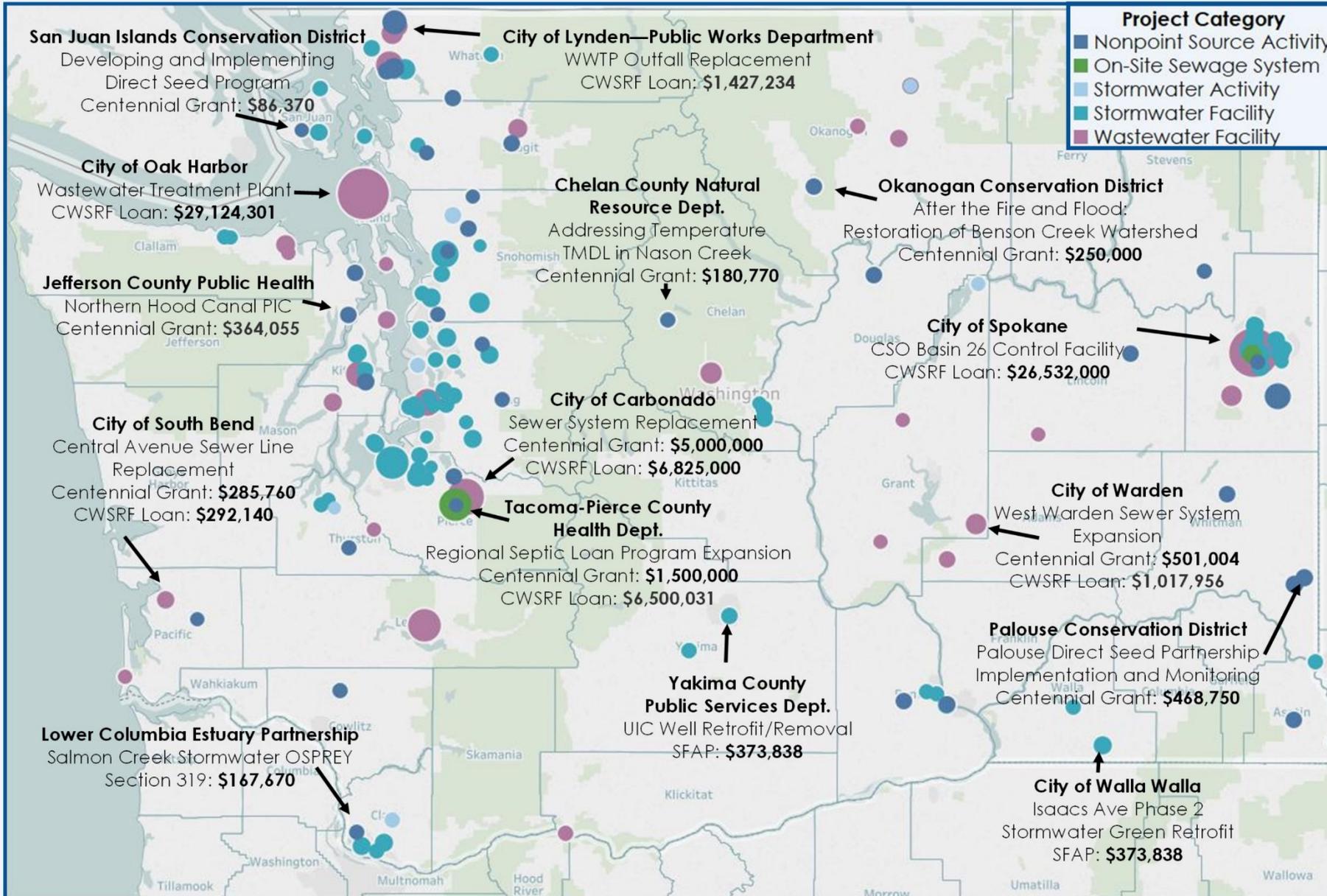


DEPARTMENT OF
ECOLOGY
State of Washington

\$187 Million Proposed
\$263 Million Requested

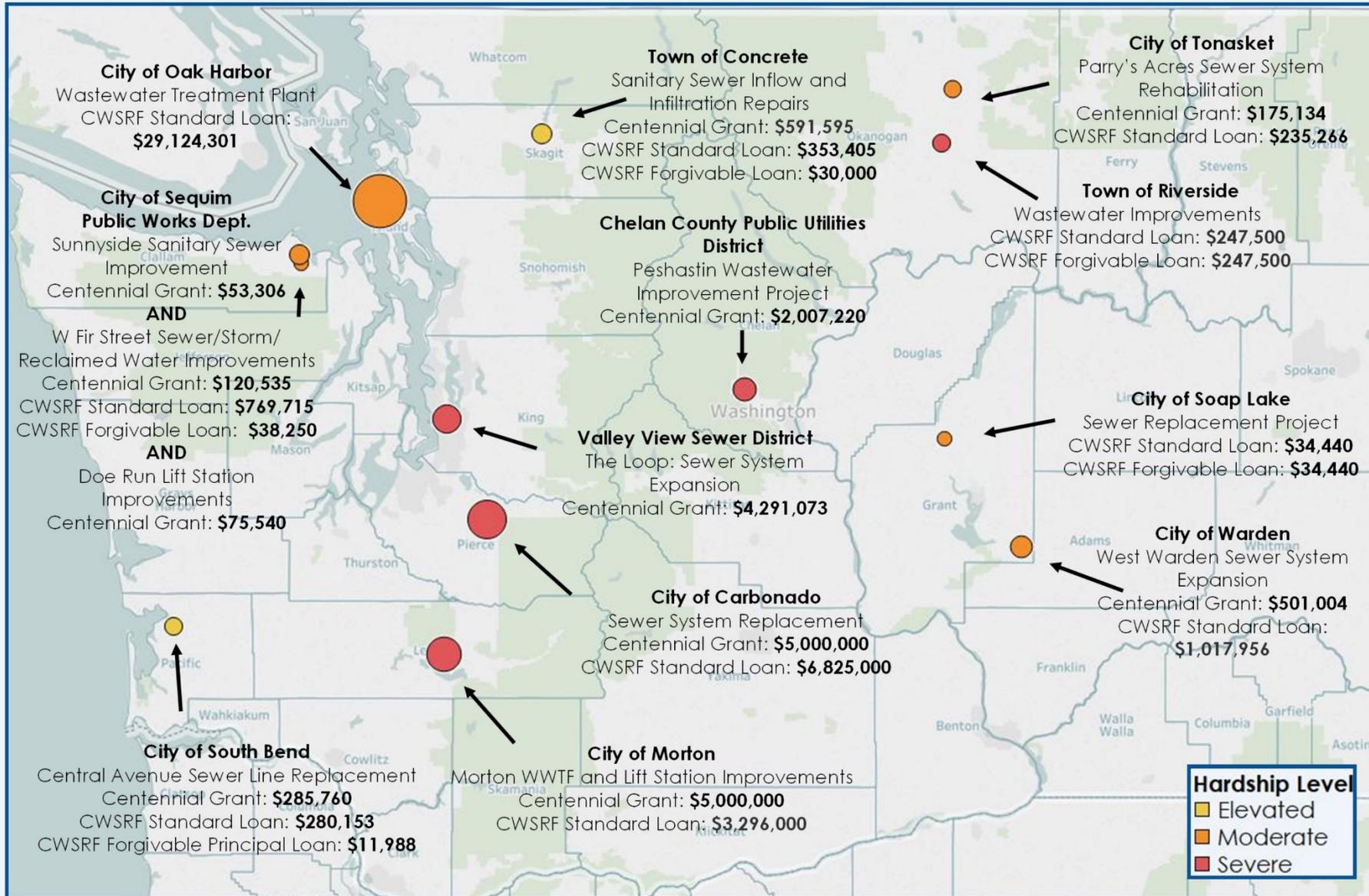
FY18 Water Quality Projects

165 Projects Proposed
225 Projects Requested



\$61 Million Proposed
\$75 Million Requested

Hardship Community Water Quality Projects



Reclaimed Water Rule Water Quality Partnership

Vincent McGowan
Water Quality Program
Municipal Unit



Reclaimed Water

- *Wastewater with a domestic component*
- *Adequately and reliably treated*
- *Used for beneficial purposes*



**Class A
Reclaimed
Water**

At all times an
oxidized,
coagulated,
filtered, and
disinfected
wastewater.

**Class B
Reclaimed
Water**

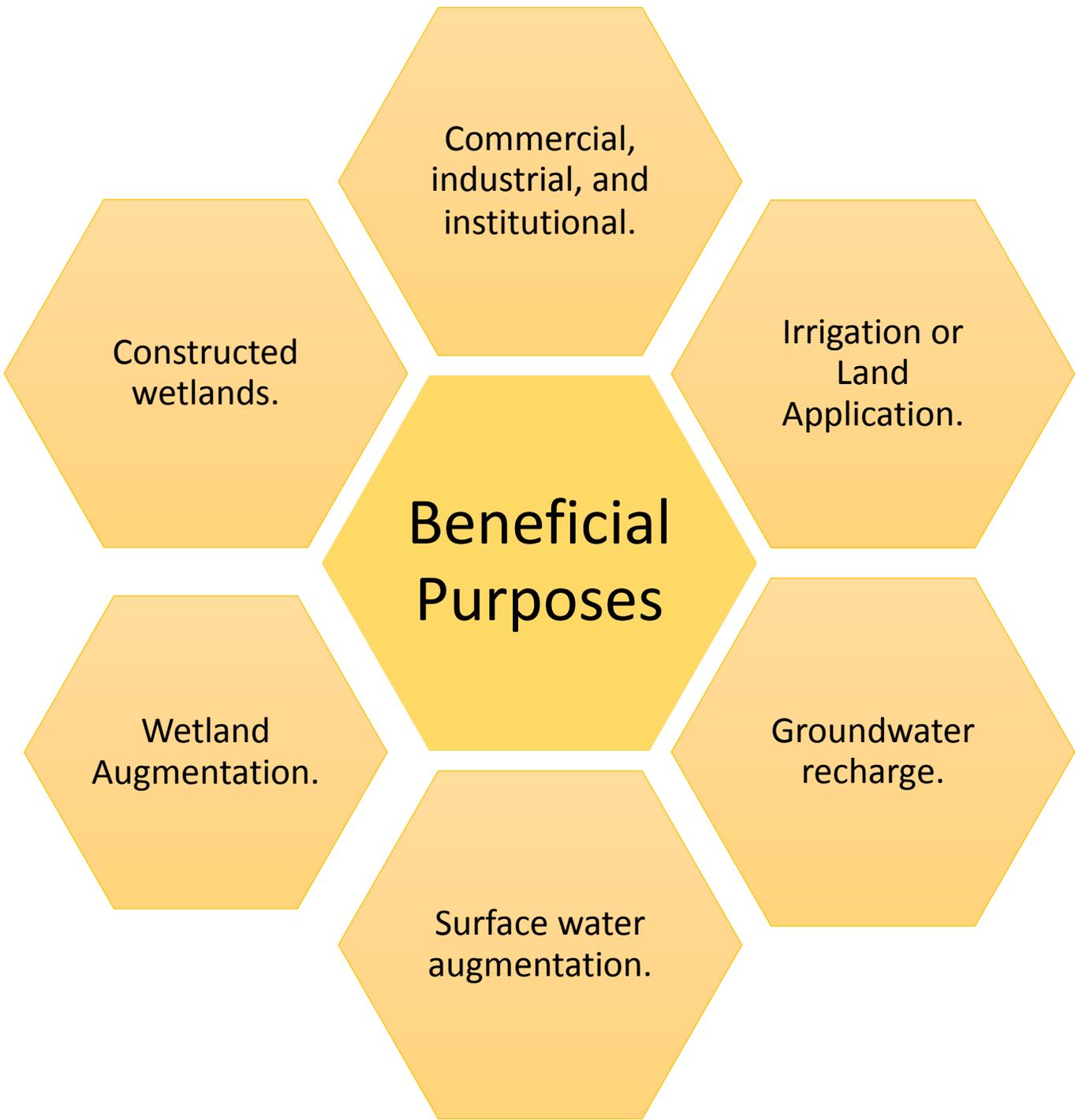
At all times an
oxidized and
disinfected
wastewater.

Class A + Reclaimed Water

Meets the treatment requirements for
Class A reclaimed water

Additional criteria determined
necessary on a case-by-case basis by
Department of Health for
direct potable reuse.

Waiver from State Board of Health



Commercial,
industrial, and
institutional.

Irrigation or
Land
Application.

**Beneficial
Purposes**

Groundwater
recharge.

Surface water
augmentation.

Wetland
Augmentation.

Constructed
wetlands.



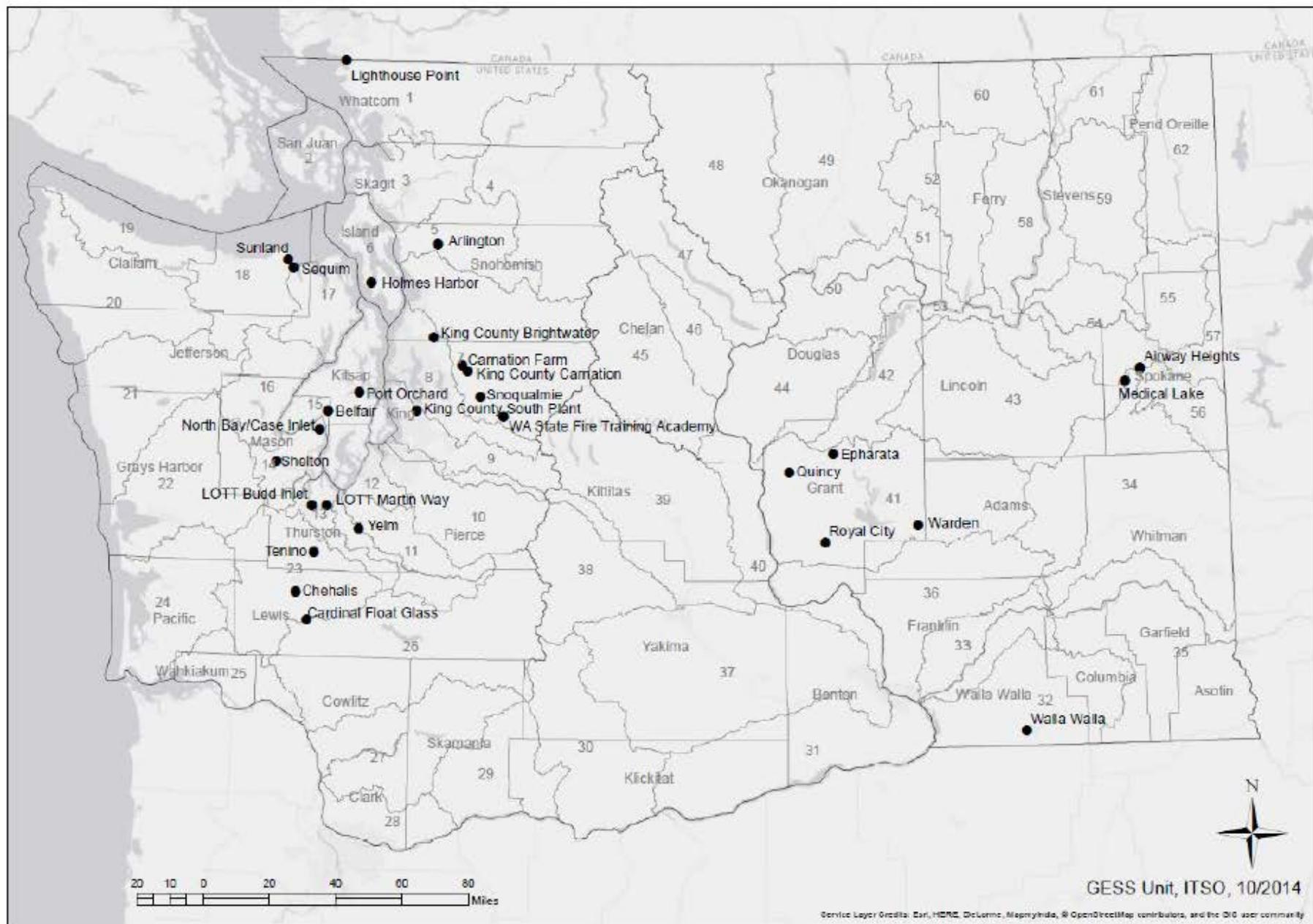
RECLAIMED WATER PERMITS

Reclaimed Water Permits



LOTT's Budd Inlet Water Reclamation Facility

RECLAIMED WATER FACILITIES - 2014



RECLAIMED WATER FACILITIES - 2014

Admin Region	Water Quality Name	Permit Number	Permit Type	Type of Plant	Design Capacity (MGD)	Reclaimed Water USES
1 Eastern	Airway Heights Water Reclamation Facility	ST0045504	RWP	Act. Sludge/BNR/MBR	1.40	Irrigation, groundwater recharge & commercial uses
2 Eastern	Ephrata WWTP	ST0008031	SWDP	Act. Sludge/BNR/Sand Filter	1.12	Groundwater recharge & filling water trucks for washing
3 Eastern	Medical Lake WWTP	WA0021148	NPDES	Act. Sludge/BNR/Sand Filter	1.85	Irrigation, lake augmentation
4 Eastern	Quincy WWTP	ST0005278	RWP	SBR/Filtration	1.54	Groundwater recharge
5 Eastern	Royal City STP	ST0005294	RWP	Act. Sludge/BNR/Fabric Filter	0.25	Groundwater recharge
6 Eastern	Walla Walla STP	WA0024627	RWP/NPDES	Act. Sludge/Sand Filter	9.60	Irrigation & stock watering
7 Eastern	Warden WWTP	ST0005380	RWP	Act. Sludge/BNR/Fabric Filter	0.474	Groundwater recharge thru surface percolation
8 Northwest	Arlington STP	WA0022560	NPDES	MBR	2.05	Discharge to stormwater wetland, augment summer low flows to wetland
9 Northwest	Camp Korey At Carnation Farm WWTP	ST0005139	SWDP	Activated Sludge	0.035	Irrigation
10 Northwest	Holmes Harbor Sewer District WWTP	ST0007373	SWDP	SBR	0.10	Golf Course Irrigation
11 Northwest	King County-Brightwater WWTP	ST0045498	RWP	MBR	21.0	Irrigation
12 Northwest	King County-Carnation WWTP	WA0032182	NPDES	MBR	0.48	Wetland enhancement
13 Northwest	King County-South Plant Reclaimed Water Plant	ST0007445	RWP	Act. Sludge/Sand Filter	1.50	Irrigation, wetland, sewer flushing & street sweeping
14 Northwest	Blaine-Lighthouse Point Reclamation Facility	WA0022641	NPDES	MBR	1.54	Golf Course Irrigation & onsite uses
15 Northwest	West Sound Utility District (Port Orchard WWTP)	WA0020346	NPDES	MBR	0.45	Irrigation at Retsil Veterans Home
16 Northwest	Snoqualmie WWTP And Reclaim Facility	WA0022403	NPDES	Act. Sludge/Sand Filter	1.56	Golf Course Irrigation
17 Northwest	WA State Fire Training Academy	ST0045506	RWP	MBR	0.024	Fire fighting training exercises within property
18 Southwest	Belfair Water & Wastewater Reclamation Facility	ST0006224	SWDP	MBR	0.125	Irrigation / groundwater recharge
19 Southwest	Cardinal Float Glass Winlock STP	ST0006210	SWDP	MBR	0.01	Manufacturing process reuse
20 Southwest	Chehalis Water Reclamation Facility	WA0021105	NPDES	SBR	6.00	Irrigation
21 Southwest	Lott Budd Inlet Water Reclamation Facility	WA0037061	NPDES	Sand Filter	1.50	Irrigation, fountain, education stream & toilets
22 Southwest	Lott Martin Way Water Reclamation Facility	ST0006206	SWDP	MBR	2.00	Irrigation, groundwater recharge & stream augmentation
23 Southwest	North Bay/Case Inlet Water Reclamation Facility	ST0006039	SWDP	SBR	0.0365	Irrigation & groundwater recharge
24 Southwest	Sequim Water Reclamation Facility	WA0022349	NPDES	Activated Sludge	2.23	Irrigation, groundwater recharge & stream augmentation
25 Southwest	Shelton Water Reclamation Facility	ST0006216	SWDP	MBR	0.40	Irrigation-Summer / groundwater recharge-Winter
26 Southwest	Sunland Water Reclamation Facility	ST0006003	SWDP	SBR	0.15	Irrigation & groundwater recharge
27 Southwest	Tenino Water Reclamation Facility	ST0006221	SWDP	MBR	0.20	Groundwater recharge thru surface percolation
28 Southwest	Yelm Water Reclamation Facility	WA0040762	NPDES	SBR	1.00	Irrigation, groundwater recharge, wetland discharge, and commercial & industrial uses

Permit Type: **RWP** = Reclaimed Water Permit; **SWDP** = State Wastewater Discharge Permit; **NPDES** = National Pollutant Discharge Elimination System

Type Plant: **BNR** = Biological Nutrient Removal; **MBR** = Membrane Bioreactor; **RBC** = Rotating Biological Contactor; **SBR** = Sequencing Batch Reactor



RECLAIMED WATER RULEMAKING

Ecology, in coordination with Department of Health, adopt Rules to:



Encourage the use of Reclaimed Water



Preserve Potable Water



Contribute to Instream Flows and Wetlands



Reduce Discharges to Puget Sound

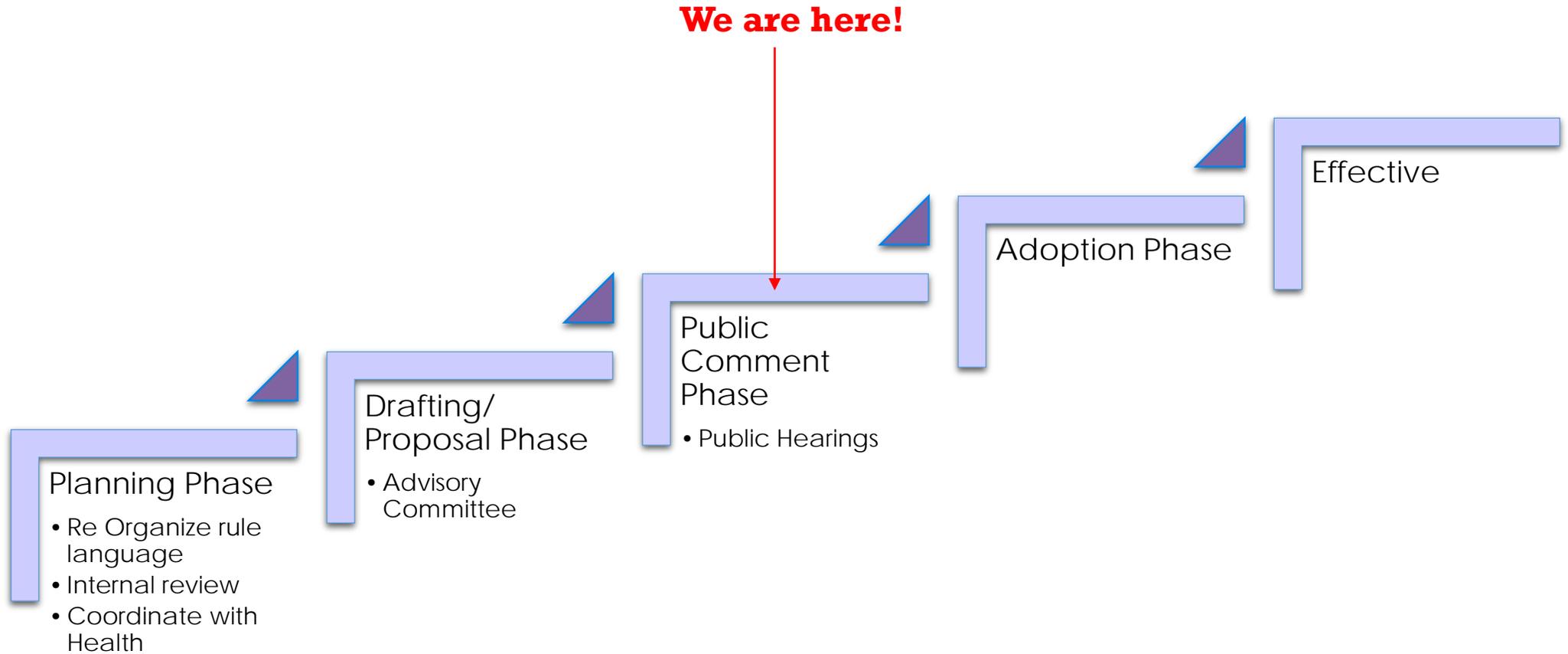


Respond to Growth and Climate Change

A look back in time...



Rulemaking process





AUGUST 23, 2017 – October 13, 2017

Use new E-Comments

<http://ws.ecology.commentinput.com/?id=iTbD5>



SIGNIFICANT CHANGES FROM 2015 DRAFT RULE

Significant changes since 2015

Complete reorganization

Simplified water rights provisions

Clarified feasibility analysis requirements

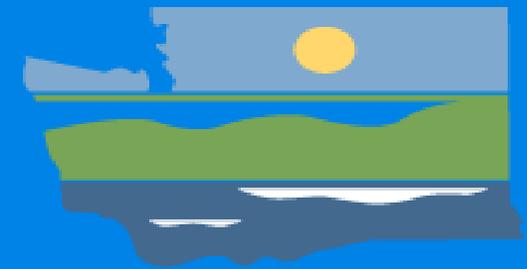
Adjusted permitting process to align with existing practice

Expanded cross-connection control requirements

Simplified operator certification requirements

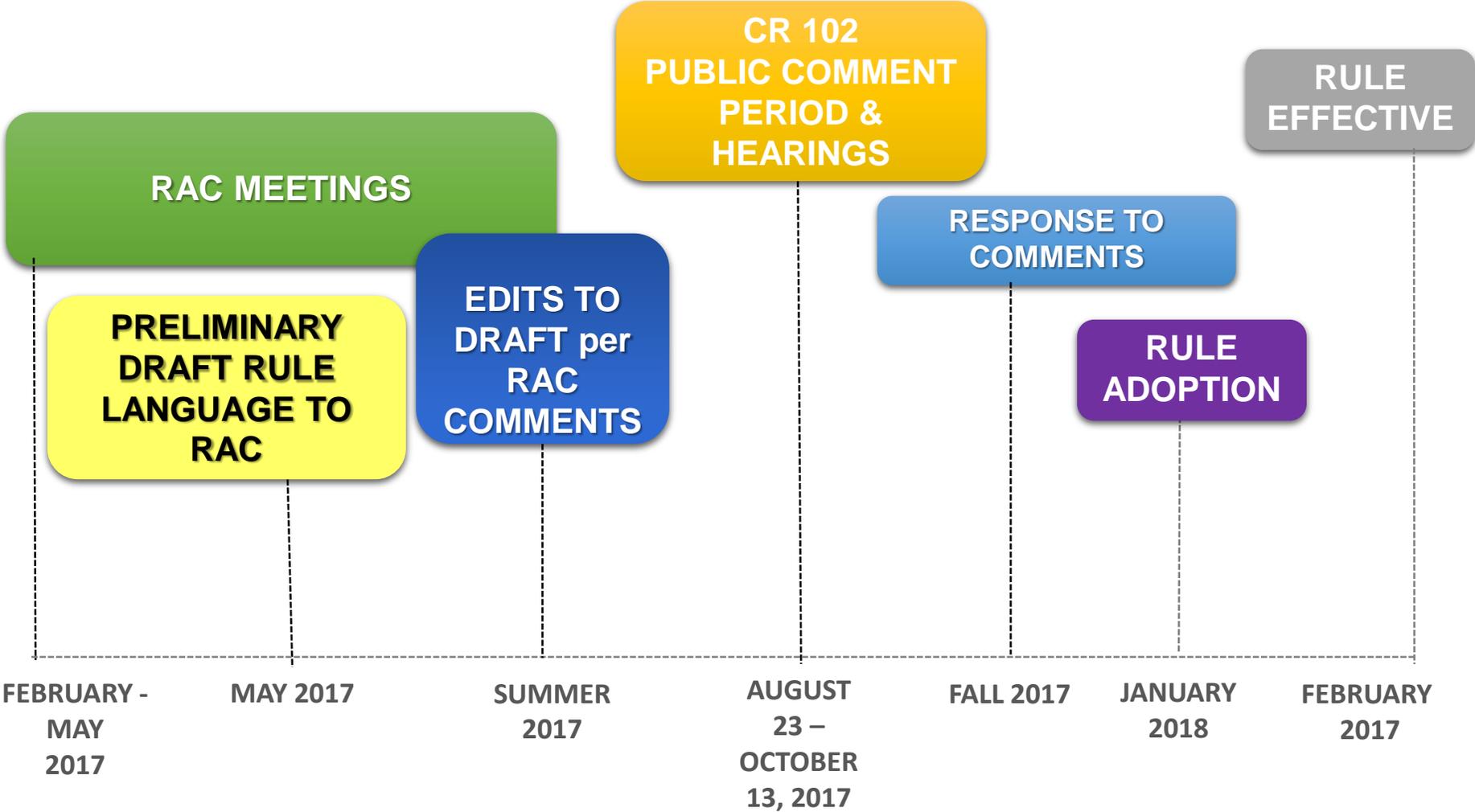
Clearly separated performance standards from use-based standards

Added direct potable reuse pathway

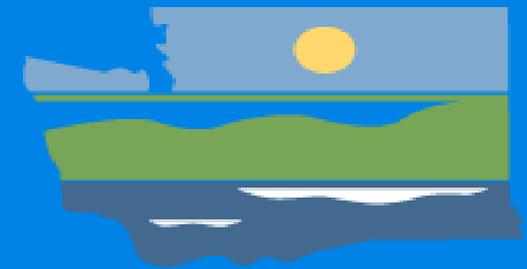


NEXT STEPS

Tentative timeline



We are here!



Questions?

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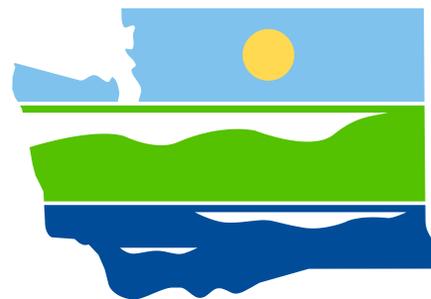
Municipal stormwater

Updating these general permits

- Aligning our permit updates statewide
- Working closely with stakeholders
- Meeting the needs of each region



Water Quality Assessment for Washington Policy 1-11 Updates



DEPARTMENT OF
ECOLOGY
State of Washington



Closing and other topics



Future topics?