



# Future Permitting

## If "draft" WAC 173-219 is adopted

Groundwater Recharge via Surface Percolation  
Surface Water Augmentation  
Wetlands



# Disclaimer

This presentation is an interpretation of the changes or impacts of the draft Reclaimed Water Rule (WAC 173-219) for future permitting. Since each project and permit may have site specific nuances, permit conditions for future projects may vary from the contents of this presentation.

# Groundwater Recharge via surface percolation

- Meet Class A technology standards  
*(Water Reclamation and Reuse Standards(WRRS),  
Sect. 1, Art.3, Sect. 2 (1))*
- SCA for potable water wells  
*(WAC 246-290-135; WAC 246-291-100)*

# Groundwater Recharge via surface percolation

- Include a biological nitrogen reduction process  
*(WRRS, Sect. 1, Article 3, Section 2 (2))*
- Total Nitrogen in final discharge  $\leq 10$  mg/L avg. and 15 mg/L maximum  
*(common permit condition implementing WRRS Sect. 1, Art. 3, Sect. 1)*

# Groundwater Recharge via surface percolation

- Enforceable limits based on both Drinking Water and Groundwater Quality Standards (common permit condition - RCW 90.46.080)

# Groundwater Recharge via surface percolation

- Enforceable limits must consider:
  - Potential to be present in RW
  - Existing groundwater quality
  - Existing and proposed uses of the recharge groundwater
  - Compliance points
- ★ • Antidegradation provisions of WAC 173-200 [change]  
*(common permit conditions - RCW 90.48; WAC 173-200; WRRS Sect. 1, Art. 3, Sect. 4)*

# Groundwater Recharge via surface percolation

- Point of compliance may be any or all of:
  - In reclaimed water before discharge
  - Within the groundwater as near the recharge site as technically, hydrogeologically, & geographically feasible
  - At alternate point not exceeding the property boundary
  - In the surface water beyond property boundary if necessary

*(WRRS Sect. 1, Art. 3. Sect. 1; WAC 173-200)*

# Groundwater Recharge via surface percolation

- Monitoring requirements:
  - Sufficient to document the protection of public health and groundwater quality at the designated compliance points  
*(WRRS Sect. 1, Art. 3. Sect. 1 & Sect. 4; WAC 173-200)*

# Surface Water Augmentation

- Meet Class A if raw water source for potable supply
- Meet Class A if primary recreational impoundment

*(WRRS Sect. 1, Art. 2, Sect. 3(a))*

- Meet Class B for those purposes not stated above

*(WRRS Sect. 1, Art. 2, Sect. 2)*

# Surface Water Augmentation

- Indirect augmentation of surface water via groundwater
  - Case specific conditions set by lead agency  
(*90.46.100 RCW; 90.48 RCW; WAC 173-201A:WRRS Sect. 1, Art. 3. Sect. 1 & Sect. 4; WAC 173-200*)

# Surface Water Augmentation

- Monitoring requirements:
  - Additional monitoring may be added for the protection of public health and the environment

*(WRRS Sect. 1, Art.5, Sect. 1; 90.48 RCW, 173-220, and WAC 173-201A)*

# Wetlands

- Meet Class A, except that “constructed treatment wetland” may be Class B

*(90.46.090 RCW; WRRS Sect. 2)*

# Wetlands

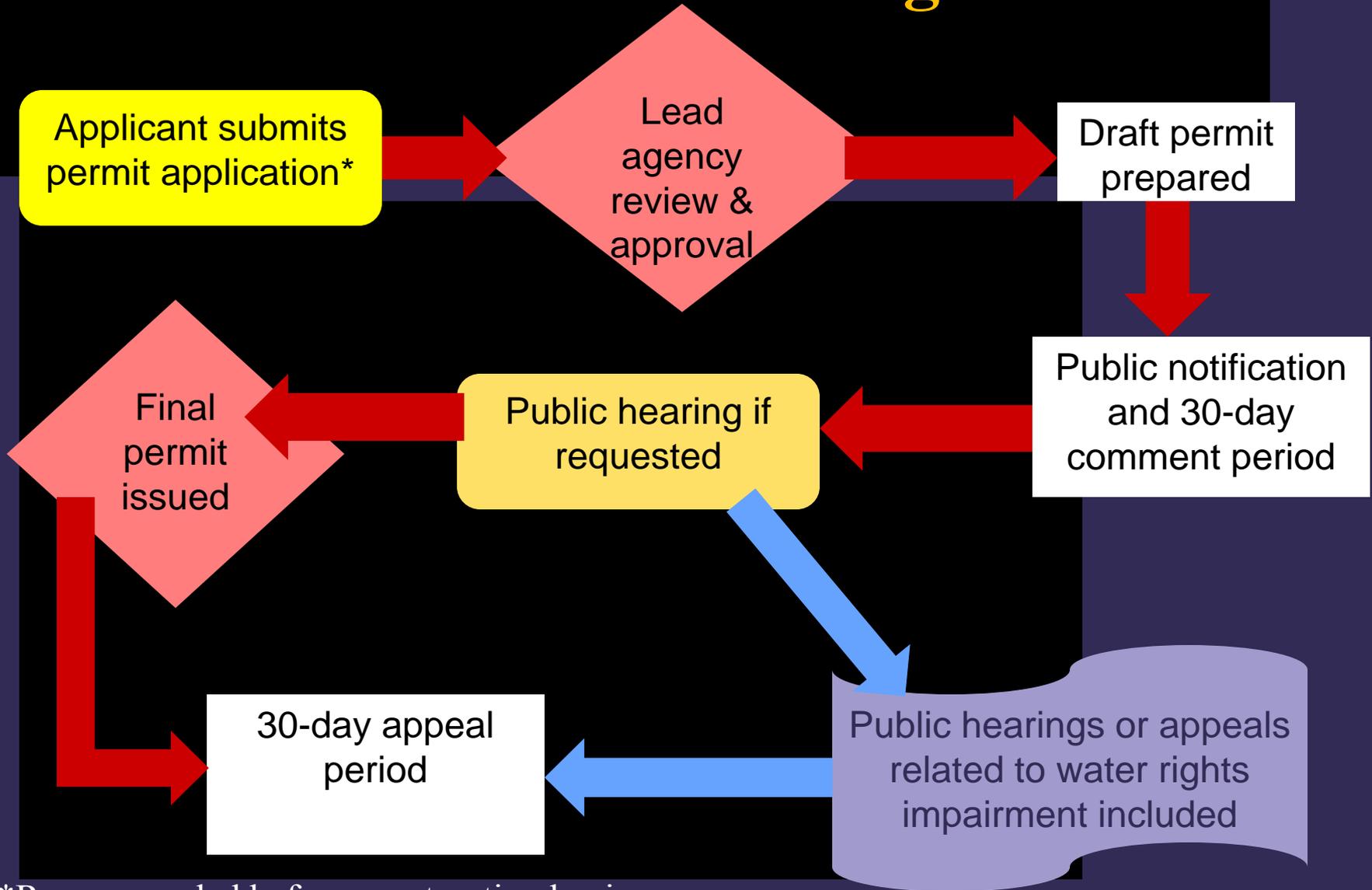
- Water quality limits (avg. annual):
  - 20 mg/L BOD; 20 mg/L TSS
  - 3 mg/L Total Kjeldahl Nitrogen
  - 1 mg/L Phosphorus
  - Ammonia per chronic toxicity standards
  - Metals per surface water standards

*(WRRS Sect. 2, Art. 3, Sect 2; WAC 173-201A)*

# Wetlands

- Net Environmental Benefit  
*(90.46.090 RCW; WRRS Sect. 2, Art. 6)*
- Monitoring sufficient to protect biological criteria, public health, and environment including groundwater and surface water  
*(WRRS Sect. 2, Art. 4 & 7; 90.48 RCW)*

# Reclaimed Water Permitting Process



\*Recommended before construction begins

# Washington's Reclaimed Water Program

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<http://www.ecy.wa.gov/programs/wq/reclaim/index.html>

# Questions?

