2024 Municipal Stormwater Permit Reissuance - Eastern Washington focus

Water Quality Program
Abbey Stockwell
Welcome!

To-do
✓ Quick permit overview
✓ Permit reissuance - Eastern WA focus
  ✓ Early Input summary
  ✓ Early thinking
✓ Break 😊
✓ SWMM Updates
✓ Hear from you
Municipal Stormwater Permits

Quick permit overview
The problem with stormwater is...
... how we all use the land every day
Municipal Stormwater Permits implement Federal and State rules

• Federal Clean Water Act
  • Maximum Extent Practicable (MEP)

• State Water Pollution Control Act
  • All Known, Available, and Reasonable methods of prevention, control, and Treatment (AKART)
So, what is regulated?

• Discharges from **publicly owned Municipal Separate Storm Sewer Systems** (MS4s).

• Including:

  ✓ Roads with drainage systems
  ✓ Municipal streets
  ✓ Catch basins
  ✓ Curbs and gutters
  ✓ Ditches and other man-made channels
  ✓ Storm drains

Credit: Federal Way D.Smith
Permit History

Phase I
- King, Snohomish, Pierce, & Clark Counties; Cities of Seattle & Tacoma

Western WA Phase II
(Issued 2007, reissued 2012, 2019)
- 83 cities and parts of 5 counties

Eastern WA Phase II
(Issued 2007, reissued 2012, 2019)
- 19 cities and parts of 6 counties

Phase I&II permits include Secondary Permittees
- 47 Ports, Schools, Irrigation Districts, etc.
### Stormwater Management Program

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<th>Component</th>
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<tr>
<td>Stormwater Planning</td>
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<td>Mapping</td>
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<td>Public Education &amp; Outreach</td>
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<td>Public Involvement</td>
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<td>Illicit Discharges Detection &amp; Elimination (IDDE)</td>
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<td>Controlling Runoff from New Development</td>
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<td>Operations &amp; Maintenance (O&amp;M)</td>
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<td>Source Control for existing development</td>
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<td>Structural Stormwater Controls (PH I only)</td>
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<td>Monitoring &amp; Assessment</td>
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<tr>
<td>Total Maximum Daily Loads (TMDLs)</td>
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Stormwater Management Manuals
Tentative Reissuance Timeline

Where we’re headed next

Feb. 2022
Early Input

Spring 2022
Listening Sessions

Fall/Winter 2022
Informal draft permits & comments

Summer/Fall 2023
Draft permits published & hold public hearings

July 2024
Make final decision to reissue
Questions?
Early Input – Thank you!

Western WA Topics
• 6PPD
• Annual reports
• EJ
• IDDE/Source Control
• O&M
• Retrofits
• S4 – Compliance w/ Stds
• Scaling
• SMAP
• SSC
• Stormwater Planning
• SWMMWW
• TMDLs
• Specific topics & language edits

Eastern WA Topics
• Controlling runoff
• Ed & Outreach
• Effectiveness Studies
• SSC
• Source Control
• Sweeping
• UICs
• Specific topics & language edits
Things not covered today

• S4- Compliance with Standards
• Clarifications
• Annual Reports
• TMDLs
• New Permittees
• UICs
2024 Municipal Stormwater Permit Reissuance
5-year permit cycle

Learn how to make more effective

Reissue

Implement

The Longest

Shortest Time

https://www.wnyc.org/shows/longestshortesttime/
2024 Municipal Stormwater Permit Reissuance

• Learning and Applying what we learn
Ecology’s Early Thinking

- Maintain
- Refine
- Enhance
Proposed changes to S5

• Initial thinking - Not an exhaustive list
• Revised formatting throughout
• Statewide consistency – *where appropriate*
Significant Updates Proposed

• Address tire wear research findings – Road Runoff
• Enhance Source Control requirements
  • street sweeping program
  • PCBs in building materials
• Update Appendix 1 in Eastern WA
  • Project review thresholds
  • Wetland protections
Environmental Justice
Environmental Justice + Municipal Stormwater Permits

- EPA definition of “Overburdened Communities”
  - Public Involvement
  - Public Education and Outreach – target audience
  - Stormwater Planning
  - SSC implementation

Image from: https://www.healthandenvironment.org/environmental-health/social-context/history/environmental-justice-or-rather-injustice
EJ + Muni Permits

• EJ review of SWMP
• Equitable services
  • Source control
  • O&M
• Access to reporting for overburdened communities
Comments/Questions?
Education and Outreach
Ed & Outreach
Comments/Questions?
Mapping
Standard outfall reporting
SW Outfalls to Surface Water
A Reporting Standard...

Will make it easier to share outfall data with each other and with Ecology.
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Questions?
Address road runoff

Tire wear research
• It took 20+ years of investigation to identify the chemical that causes pre-spawn mortality of Coho.
1. Is there a safe, viable alternative to 6PPD?
2. Do we have the analytical methods we need?
3. What are other biological effects of 6PPD-quinone?
4. What are the best stormwater management approaches?
5. Where should we prioritize mitigation efforts?
6PPD -> 6PPD-Quinone
• 2021: Identify existing BMPs for reducing the toxicity to Coho and other aquatic life

• 2022: Study and develop BMPs to treat stormwater containing tire wear
Tire/tire wear sources

statewide priority
Muni Permit programs

Reviewing requirements to enhance for Road runoff
- SSC and SW retrofits
- Street sweeping program
- And More
Stormwater Planning in EWA

• Retrofit planning?
Comments/Questions?
Structural Stormwater Controls (SSC)
Stormwater Planning

• LID – preferred and commonly used
• Long range planning connection?
• Stormwater Management Action Plan (SMAP)
  • Next steps
Phase II Retrofit program
Questions and Discussion
Enhance Source Control requirements

street sweeping program
PCBs in building materials
Street Sweeping
Questions?
Source control for PCBs

- Exterior building materials – building built between 1950-1980
Why we should (still) care about PCBs

**Sources of PCBs are still in use**
Mass of PCBs still in use is much larger than the PCBs currently in the environment

**Stormwater is a known and measured pathway**

**Sediment, tissue, and surface waters impacted by PCBs**
- WQA Cat 5 listings (plus 4b sediment)
- Puget Sound Sediment Cleanup Sites & Superfund sites
- Spokane River
- DOH PCB Fish Advisories
Exterior PCB-containing materials on a building degrade and flake off over time.

Widely understood that unmitigated remediation and demolition activities exacerbate this.

Greater chance that more PCBs will be released into the environment during reno and demo.
Source control for PCBs

- Exterior building materials – building built between 1950-1980
- Ed & Outreach
- IDDE – exterior washing of buildings of PCB concern
- O&M – policies, practices re: exterior washing and reno/demo of PCBs in building materials
Questions
Controlling runoff & Appendix 1

Thresholds

Wetlands
EWA Controlling runoff and Appendix 1

• Exploring options re: One-Acre Land disturbing threshold

1-Acre land disturbance (43,560 sf)
5000 sf of Pollution Generating Imp. Surface (PGIS)
10,000 sf of New Imp. Surface

Credit: J. Morrow
EWA Controlling runoff and Appendix 1

- Exploring options re: One-Acre Land disturbing threshold

- 5000 sf of Pollution Generating Imp. Surface (PGIS)
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EWA Controlling runoff and Appendix 1

• Wetland protections
Comments/Questions?
Monitoring & Assessment
Early input - Effectiveness studies
S8 – Monitoring & Assessment
EWA Effectiveness studies

Number of studies by type

S8. Monitoring and Assessment - EWA

- Continuing to implement a regional stormwater monitoring program, or lead own study – similar to current requirements
- Participate in Effectiveness Studies Program – as established in SAM
  - Pooled funding program – based on population
  - Leverage other studies to be statewide or EWA specific
  - Vote on studies
- Outfall discharge monitoring?
Questions/Comments?
Comments/ Questions?

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