



Meeting Objectives

- Review project history and status
- Review draft SWMMEW update
 - Requirements/Guidance that has not changed
 - Key changes by chapter
- Answer any initial questions about the draft SWMMEW
- Discuss review process



hoto courtesy of Jon Morrow, City of Ellensburg

Project Team

Ecology:

- Abbey Stockwell (Project Manager)
 Doug Howie
 Bill Moore
 Amanda Heye
 Vince McGowan

Consultant Team:

- Rebecca Dugopolski, Herrera (Project Manager)

- Manager) Robin Kirschbaum, RKI Erick Fitzpatrick, AHBL Jon Rudders, GeoEngineers Jay Slagle, MadSkills Christine Sophos, CMS Writing & Editing Services

Eastern WA Steering Committee: Colleen Little, Spokane County (Chairpee) Danielle Mullins, City of West Richland

- Danielle Mullins, City of West Richland
 Tom Wachholder, City of East Wenatchee
 Jon Morrow, City of Elensburg
 Shilo Sprouse, City of Pullman
 Mark Melton, City of Richland
 Adrianne Pearson, City of Spokane
 Heather Killinger, Grant Conservation District
 Brad Daly, City of Walla Walla
 Seth Walker, Walla Walla County
 David Haws, Yakima County
 Alex Nguyen, WSDOT
 Dean Smith, Department of Corrections
 Jennifer Lange, Douglas County





Poll Question #1

Who are you representing?

- Steering Committee
- City representative (not on the Steering Committee)
 County representative (not on the Steering Committee)
 Secondary permittee

- State agency
- Federal agency Non-profit organization
- Private sector (consultant, contractor, developer, etc.)
- General public
- Other





Mission Statement

"Complete a focused update of the Manual via an open and collaborative process to include the latest advances in stormwater management, needed clarifications, and improved ease of use."

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Project Objectives

- · Complete a focused update of the Manual
- Open and transparent public process
- Work closely with the Eastern Washington Steering Committee
- Promote public participation to solicit feedback and help improve adoption and use of the Manual
- Provide a user-friendly on-line version of the Manual

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Project Phasing

Phase 1 – 2015-17 Biennium (through 6/30/17)

- Task 1 Entrance Conference
- Task 2 Project Kickoff Meeting
- Task 3 Major Project Workshop
- Task 5A Quality Control
- Task 6A Updates to the Stormwater Manual
- Issue tracking log spreadsheet summarizing and organizing input received

 Task 7A Public Involvement
- Newsletter
 - Website Webinar

Phase 2 – 2017-19 Biennium

- (7/1/17 through 10/31/18)

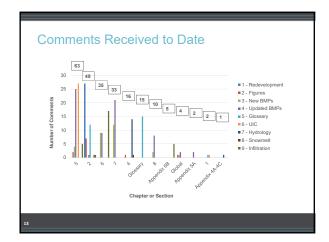
 Task 4 Coordination Meetings with Ecology and the Steering Committee

 Task 5B Quality Control
- Task 6B Updates to the Stormwater Task 6B – Updates to the Storm Manual

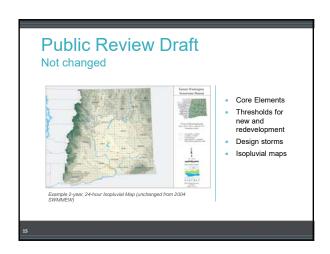
 Full Working Draft
 Internal Public Review Draft
 External Public Review Draft
 External Public Review Draft
 Final Manual
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Phase 2 Key Milestone Schedule Legend

Comments Received to Date Meeting/Review Stage Date Project Kickoff Meeting 5/22/17 Project Webinar 6/27/17 53 61 Draft Manual Sections 10/12/17 3 20 Revised Draft Manual Sections 11/3/17 37 S.C. Meeting Follow-up 10 S.C. Conference call follow-up 12/5/17 through 1/17/18 16 Working Draft Manual 2/2/18 150 Various (consultant team, direct outreach, etc.) Various 206 Internal Public Review Draft 4/26/18 (in progress) (in progress)







Chapter 1 - Introduction

- Clarified regulatory and permit requirements
- Added WSDOT link for latest available data on highway stormwater runoff



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Core Elements 62 and 65 are required for the entire project able

Contents 61-4 and 66 are required for the new and registed impervi

Public Review Draft **Key Changes**

Chapter 2 - Core Elements for New

- Development and Redevelopment Shifted exemptions forward, clarified
- where needed Updated and shifted definitions
- Modified flow charts to clarify core element applicability
- Expanded list of responsibilities for
- local jurisdictions Incorporated errata

Public Review Draft Key Changes

- Chapter 3 Preparation of Stormwater Site Plans

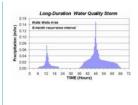
 Provided more direction on preparation of a Stormwater Site Plan

 Control of the Plant Control of the Plan
- Added guidelines for Small Project Construction Stormwater Pollution Prevention (formerly BMP C180 in Chapter 7)
- Incorporated the LID site planning guidelines from the Eastern WA LID Manual into Appendix 3D



Chapter 4 – Hydrologic Analysis and Design

- Added new tables summarizing the advantages, disadvantages, and applicability for:
 - Hydrologic analysis methods
 - Average annual precipitation
- Design storm distributions
 Various streamlining edits
- Moved hyetographs to Appendix



Public Review Draft **Key Changes**



Chapter 5 – Runoff Treatment BMP Design

- Updated BMP Template
 Added tables summarizing BMP applicability
 Streamlined the stepwise procedure for BMP design in text and tables
 Added cold weather, arid, and semi-arid climate considerations
- Incorporated errata for oil control
- guidance Clarified metals treatment
- requirements Updated Site Suitability Criteria
- Added screening criteria for infiltration BMPs
- Added BMPs:

 - Bioretention
 Permeable Pavement
 Compost-Amended Vegetated Filter Strip (CAVFS)
 - Media Filter Drain

Public Review Draft Key Changes

Chapter 5 – Runoff Treatment BMP Design (cont.)

- Updated BMP T5.100: API (baffle type) Separator Bay design criteria
- Incorporated updated UIC guidance
- Updated Emerging Technologies for alignment with the SWMMWW and
- Added new appendix with planting recommendations for vegetated BMPs



Photo courtesy of Jon Morrow, City of Ellensbu



Chapter 6 – Flow Control **BMP** Design

- Updated BMP Template (same as Chapter 5)
- Added BMPs from the Eastern WA LID Manual
 - Rain Water Harvesting

 - Permeable Pavement
 Amending Construction Site Soils
 - Trees
 - Vegetated Roofs
- Minimal Excavation Foundations
- Updated dispersion BMP design guidance based on WSDOT HRM

Public Review Draft Key Changes

Chapter 6 – Flow Control BMP Design (cont.)

- Updated guidance for determining design infiltration rates
- Updated Appendix 6B (Storm Drainage Design Guideline for Site
 - Characterization) to add:

 Small-Scale Pilot Infiltration Test (PIT)

 - Large-Scale PIT Recommended laboratory procedures



Public Review Draft **Key Changes**



Chapter 7 – Construction

Stormwater Pollution Prevention

- Added 13th element (Protect LID BMPs [Infiltration BMPs])
- Incorporated errata
- Edits to align with the SWMMWW ("E" flag for EWA specifics)
 Added BMPs:
- - Material Delivery, Storage, and
 - Containment Concrete Washout Area

 - Vegetative Filtration Treating and Disposing of High pH Water
- Removed BMPs:
 - Stake and Wire Fence
 - Payment of Erosion Control Work
 - Straw Bale Barrier

Chapter 8 – Source Control

- Added BMP numbering
- Edits to align with the SWMMWW ("E" flag for EWA
- Added BMPs for:
 - o Formation of a Pollution Prevention Team Good Housekeeping
 - Pools, Spas, Hot Tubs, and Fountains
 - Dock Washing
 - Color Events
 - In-Water Fueling



- Temporary Fruit Storage Potable Water Line Flushing, Water Tank Maintenance, and
- Hydrant Testing
 Well, Utility, Directional and
 Geotechnical Drilling
- Roof Vents
- Nurseries and Greenhouses

Public Review Draft Key Changes

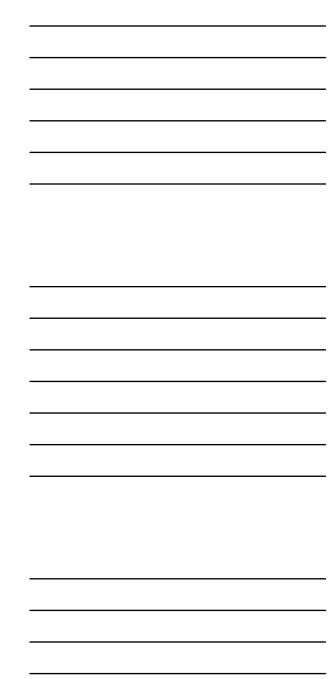
Glossary

- Deleted unused terms
- Updated definitions for consistency with the Eastern WA Phase II Permit
- Updated definitions based on errata
- Added applicable terms from the SWMMWW and the Eastern WA LID Manual

Bibliography

 Added applicable references from the SWMMWW, WSDOT HRM, and Eastern WA LID Manual





Poll Question #2

- How did you find out about this webinar?
 E-mail from Steering Committee member
 Eastern WA Manual listsery

 - Ecology Eastern WA Manual website



THANK YOU!

- Download the Draft Manual on Ecology's website:
 www.ecy.wa.gov/programs/wg/stormwater/easternmaual/manual.html
- Submit comments:
 a. Use this comment spreadsheet (preferred)
 b. E-mail comments to
 SWPermitComments@ecywa.gov
- Sign up for the Eastern WA Manual and Phase II Permit Listserv: https://listserv.wa.gov/cgi-bin/wa?A0=STORMWATER-EASTERN-WA



