

Seattle Public Utilities | Protecting Seattle's Waterways



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2016 Stormwater Code Update

Public Meeting
 Wednesday, June 10, 2015
 4 – 6 p.m.
 Seattle Municipal Tower, Suite 4080

Presented by:
 Sherell Ehlers, P.E.

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Agenda

- Provide Background on Project
- Identify Major Changes of Code
- Identify Next Steps

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Background

- Why do we have a Stormwater Code?
 - Protect life, property, surface waters from harm
 - Meet requirements of state and federal law
 - Required under the federal Clean Water Act/NPDES permit
- What is in our current Stormwater Code?
 - Source control for on-going practices
 - Construction site pollution prevention
 - Green stormwater infrastructure to maximum extent feasible, flow control & water quality treatment for projects

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Strategic Direction

- Achieve equivalency with Ecology Manual (2014) & 2013 – 2018 Stormwater NPDES Permit
- Revisit some thresholds
- Use the revision process as an opportunity to:
 - Address shortcomings
 - Streamline requirements
 - Reorganize Stormwater Manual based on feedback
 - Simplify and limit text in Stormwater Manual

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Draft Major Code Revisions

- Overview of changes:
 - Exemptions
 - Vested Rights
 - Definitions
 - Prohibited and Permissible Discharges
 - Minimum Requirements for All Discharges and All Real Property
 - Minimum Requirements for Projects
 - On-site Stormwater Requirements

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Draft Major Code Revisions

- Exemptions (Ch. 22.800)
 - Revised that stand-alone utility projects not subject to On-site Stormwater Management
 - Revised “Road maintenance practices” to “Pavement maintenance practices” (matches Ecology language)

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Draft Major Code Revisions

- Transition to 2016 Stormwater Code (22.800.100)
 - Added new language regarding effective date of Stormwater Code
 - Effective date dependent upon start of construction
 - For projects with “complete applications” submitted under previous Stormwater Code, start of construction shall be prior to June 30, 2020, otherwise permit expires and 2016 Stormwater Code applies
 - Affects building and master use permits (including short plats)

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Draft Major Code Revisions

- Grading, Building, and Land Use Code Changes
 - Added references to Stormwater Code applicability
 - Changes in:
 - Grading Code (22.170.120)
 - Land Use Code (23.22.028, 23.22.074, 23.24.040, 23.76.032)
 - Seattle Building Code (106.9, 106.10, 106.11)
 - Seattle Residential Code (R105.9, R105.10, R105.11)

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Draft Major Code Revisions

- Definitions – Deleted (Ch. 22.801)
 - ~~Agency with jurisdiction~~
 - ~~Basin plan~~
 - ~~Cause or contribute to a violation~~
 - ~~Flow critical receiving water~~
 - ~~Joint project~~

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Draft Major Code Revisions

- Definitions – Revised (Ch. 22.801)

<ul style="list-style-type: none"> □ Capacity-constrained system □ Drainage system □ Geotechnical engineer □ Green stormwater infrastructure □ Impervious surface □ Land disturbing activity □ Large project □ Nutrient-critical receiving water □ Parcel-based project □ Pollution-generating impervious surface □ Pollution-generating pervious surface 	<ul style="list-style-type: none"> □ Receiving water □ Replaced impervious surface □ Roadway project □ Sidewalk project □ Single-family residential project □ Site □ Stormwater □ Trail project □ Watercourse
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Draft Major Code Revisions

- Definitions - New (Ch. 22.801)

<ul style="list-style-type: none"> □ <u>Aquatic life use</u> □ <u>Arterial</u> □ <u>Combined sewer basin</u> □ <u>Drainage basin plan</u> □ <u>Erodible or leachable materials</u> □ <u>Groundwater</u> □ <u>Hard surface</u> □ <u>Illicit Connection</u> □ <u>Industrial activities</u> □ <u>On-site BMPs</u> 	<ul style="list-style-type: none"> □ <u>Pollution-generating hard surface</u> □ <u>Private drainage system</u> □ <u>Project Site</u> □ <u>Replaced hard surface</u> □ <u>Small lakes</u>
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Draft Major Code Revisions

- **Prohibited and Permissible Discharges (Ch. 22.802)**
 - Discharges to public combined sewer shall meet Side Sewer Code (Title 21.16)
 - Revised Permissible Discharges – includes modifications and conditions
 - Dye testing - notice to SPU prior to test

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Draft Major Code Revisions

- **Minimum Requirements for All Discharges and All Real Property (Ch. 22.803)**
 - Added requirement to map drainage/plumbing infrastructure
 - Added requirement for Site Maintenance
 - Revised Minimum Requirements for Source Control for specific discharge locations

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Draft Major Code Revisions

- **Minimum Requirements for All Projects (Ch. 22.805)**
 - GSI to MEF is now “On-site Stormwater Management”
 - On-site Stormwater Management thresholds are based upon Project Type (e.g. Parcel-based, Roadway)
 - Amending soils is required based upon Project Type
 - Added requirement to protect stormwater BMPs during construction

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Draft Major Code Revisions

- **Minimum Requirements for Single-family Residential Projects (22.805.030)**
 - Threshold for On-site Stormwater Management changed to 750 sf or 1,500 sf new plus replaced hard surface (formerly required for all SFR projects)
 - 750 sf threshold applies to projects platted January 1, 2016 or later
 - 1,500 sf credit for SFR no longer applicable

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Draft Major Code Revisions

- **Minimum Requirements for Parcel-based Projects (22.805.050)**
 - Threshold for On-site Stormwater Management changed to 750 sf or 1,500 sf new plus replaced hard surface (formerly 2,000 sf for parcel-based projects)
 - 750 sf threshold applies to projects platted January 1, 2016 or later
 - Added flow control requirement for projects permanently discharging groundwater
 - Treatment applies to both pollution-generating hard and pervious surfaces

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Draft Major Code Revisions

- **Minimum Requirements for Roadway Projects (22.805.060)**
 - Added flow control requirement for projects permanently discharging groundwater
 - Treatment applies to both pollution-generating hard and pervious surfaces
 - Added infeasibility criteria for Roadway Projects pertaining to:
 - Existing Infrastructure & Utility Limitations
 - Hydraulic limitations

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Draft Major Code Revisions

- Minimum Requirement Standards: On-site Stormwater Management
 - Choose either:
 1. On-Site List (by project type), or
 2. On-Site Performance Standard



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On-site List for Parcel-based Projects

Category	BMPs	Projects Discharging to a Receiving Water Not Designated by Section 22.801.050, Public Combined Sewer, or Capacity Constrained System, or its Basin	Projects Discharging to a Designated Receiving Water or its Basin
1	Full Dispersion	R, S	R, S
	Infiltration Trenches	R, S	R, S
	Dry Wells	R, S	R, S
2	Rain Gardens	R ^a , S ^a	R ^a , S ^a
	Infiltrating Bioretention	R, S	R, S
	Rainwater Harvesting	R ^b	X
	Permeable Pavement Facilities	R, S	R, S
	Permeable Pavement Surfaces	S	S
3	Sheet Flow Dispersion	R, S	R, S
	Concentrated Flow Dispersion	S	S
	Splashblock Downspout Dispersion	R	R
	Trench Downspout Dispersion	R	R
	Non-infiltrating Bioretention	R, S	R, S
	Vegetated Roofs	R ^c	X
	Perforated Stub-out Connections	R	R
4	Newly Planted Trees	S	S

R = Evaluation is required for all roof runoff from parcel-based projects.
 S = Evaluation is required for all surfaces of parcel-based projects, unless otherwise noted below.
 X = Evaluation is not required but is allowed.

Draft Major Code Revisions

- On-site Stormwater Management
 - On-Site Performance Standard:
 - Size for small storm events (less than 2-year storm)
 - Meet pasture condition if the existing impervious surface is greater than or equal to 35%
 - Meet forested condition for all other projects.



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Timeline

- ✓ • **Spring 2013:** Outreach to Frequent Users
- ✓ • **Summer 2013:** Initial Outreach
- ✓ • **Fall 2013 / Winter 2014:** Public Outreach
- ✓ • **Spring 2014:** Initial drafts available for public comment
- ➔ • **Spring/Summer 2015:** Legislative process and formal public review for 2016 Stormwater Code Update
 - **Summer/Fall 2015:** Directors' Rule process and formal public review for 2016 Stormwater Manual Update
 - **January 2016:** Code and related Stormwater Manual (Directors' Rule) are scheduled to take effect



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Stay Connected

- Join the Stormwater Code Listserv
- Visit the Stormwater Code Update Website
<http://www.seattle.gov/dpd/codesrules/changestocode/stormwatercode/getinvolved/default.htm>



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