

NPDES Driven Code Updates

October 24, 2016
Bellevue City Council
Study Session
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Utilities Engineering

NPDES Municipal Stormwater Permit

National Pollutant Discharge Elimination System

- * Federal Clean Water Act Permit
 - * Goal – protect water quality & fishable, swimmable uses by reducing pollution discharged from the municipal stormwater drainage system into surface waters (waters of the state and nation)
- * Permit effective August 1, 2013
- * Ecology issued revisions to 2012 Stormwater Management manual (referenced as 2014 Manual)

Significant New Requirements

LID Land Use Principles

Review and revise citywide regulations to require Low Impact Development (LID) land use management strategies which

- * Minimize impervious surfaces
- * Minimize native vegetation loss

LID Stormwater Facilities

Amend stormwater development codes and standards to adopt the new Ecology Stormwater Manual (LID stormwater facilities)

Goal: Make LID the preferred & commonly used approach to site development

Complete by December 31, 2016

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Increased Illicit Discharge Detection & Elimination (IDDE)

Develop methodology & field screen 40% of the municipal storm drainage system for illicit discharges

Complete by December 31, 2017

Increased Operation & Maintenance

Implement new 2-year catch basin inspection frequency for the municipal storm drainage system

Complete by August 1, 2017

Outreach

- * Ecology provided extensive outreach:
 - * LID briefings for Elected Officials & Other High-level land use decision makers (2013 – 13 sessions)
 - * Trainings on the new Manual (2013 – 10 sessions)
 - * Training on how to regulate to the new standards (training plus on-line video)
 - * LID Trainings for Landscapers and Nurseries
 - * Trainings on LID Operations and Maintenance
 - * LID Trainings at WSU Cooperative Extension Center, Puyallup for designers

Publications

- * Publications:

- * Integrating LID into Local Codes: A guidebook for local governments
- * EPA LID “Barrier Buster” Fact Sheets
- * 2012 LID Technical Guidance Manual for Puget Sound
- * Rain Garden Handbook for Western Washington
- * Building Soil: Guidelines & Resources for Implementing Soil Quality and Depth
- * Western Washington LID Operations & Maintenance (O&M) Guidance Document

Outreach Through Others

- * Association of Washington Cities (AWC) LID Webpage
- * City of Seattle Completed GSI Projects website
- * Self-guided tour of LIDs in Clark County website
- * Washington Aggregates & Concrete Association: Pervious Concrete website
- * Interlocking Concrete Pavement Institute (ICPI) Permeable Pavers website
- * National Asphalt Pavement Association (NAPA) Porous Asphalt website
- * Washington Association of Landscape Professionals (WALP) and the Washington Nursery & Landscape Association (WSNLA) websites

Bellevue Outreach

- * LID Principles Project
- * Training sessions in October for local reviewers and design engineers on new requirements
- * Likely will conduct third training in January or February

Storm and Surface Water Code Changes

- * Non-discretionary NPDES Permit Requirements, including consistency with 2012/4 Stormwater Management Manual for Western Washington (SWMMWW)
- * Revision for consistency with Revised Code of Washington (RCW 35.91 Latecomers Agreements)
- * Non-NPDES “housekeeping”

Anticipated Impacts

- * Utility Operations – no impacts
- * Transportation, Parks, others – projects will be required to determine feasibility of LID BMPs and utilize them if applicable
- * Private – similar for all City departments. Potential cost savings based on soil suitability.
- * Private Developers – RCW change allows longer period for cost recovery using Latecomers Agreements

Questions?