

PUBLIC WORKS DEPARTMENT

Timothy J. LaPorte, P.E., Public Works Director

> Phone: 253-856-5500 Fax: 253-856-6500

Address: 220 Fourth Avenue S.

Kent, WA 98032-5895

Date:

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From:

un fosto Public Works Director Tim LaPorte, P.E.,

To:

2002 City of Kent Surface Water Design Manual Users

Copy:

Ben Wolters, Economic & Community Development Director

Fred Satterstrom, Planning Services Director Kurt Hansen, Economic Development Manager

Brennan Taylor, P.E., Development Engineering Manager

Jeff Watling, Parks Director Chad Bieren, P.E., City Engineer

Mike Mactutis, P.E., CFM, Environmental Engineering Manager

Mark Howlett, P.E., CFM, Design Engineering Manager

Blanket Adjustment 2013-1: Kent Surface Water Design Manual 2002 RE:

- 1. National Pollutant Discharge Elimination System Permit (NPDES) Requirements
- 2. Updated Kent Surface Water Design Manual (KSWDM) Maps

1. National Pollutant Discharge Elimination System Permit Requirements The following changes to the Kent Surface Water Design Manual (KSWDM) reflect the necessary modifications to remain consistent with the National Pollutant Discharge Elimination System Phase II Municipal Stormwater permit as mandated by the federal Clean Water Act and as administered by the state Department of Ecology.

A. Central Business District Water Quality Treatment Requirements: Under Section 1.2.8.1 Core Requirement #8: Water Quality Menus of the KSWDM, water quality treatment standards are described. For new development and redevelopment projects that are located within the Mill Creek - 76th Ave Outfall drainage basin (commonly known as the Central Business District Area of the city, reference the attached Water Quality Applications Map), the following condition applies:

For projects (new and redevelopment projects) within the Mill Creek - 76th Ave Outfall drainage basin causing one-acre or greater of disturbance AND with new and/or replaced pollution generating impervious surfaces greater than

5,000 SF (where the existing surfaces are removed to bare earth or to its crushed rock base layer), which includes parking lots, driveways, and roads, these surfaces are required to have treatment of its pollution generating stormwater runoff to a Resource Stream Protection Treatment level or equivalent as approved by the city.

For projects causing *less than one-acre* of disturbance within the *Mill Creek – 76th Ave Outfall* drainage basin along with the same thresholds above for pollution generating impervious surfaces, the existing requirements for water quality treatment shall apply.

B. Water Quality Treatment Requirements for Redevelopment Projects Causing Greater than One Acre of Disturbance:

Under Section 1.2.8.1 Core Requirement #8: Water Quality Menus of the KSWDM, water quality treatment standards are described. For projects defined as a "redevelopment" projects, the first sentence in the second paragraph of Section 1.2.8.1 page 5.1-50, shall be revised as follows:

"Redevelopment projects subject to Core Requirement #8 need only apply the Basic WQ Menu for projects that cause less than one-acre of disturbance. For redevelopment projects that cause one-acre or greater of disturbance AND are subject to Core Requirement #8, the Resource Stream Protection Menu shall apply."

For redevelopment projects causing *less than one-acre* of disturbance, the existing requirements for water quality treatment remain.

C. Consideration of Other Required Permits – National Pollutant Discharge Elimination System (NPDES) Construction Stormwater General Permit: For the NPDES Construction Stormwater General Permit, the Washington State Department of Ecology has changed the project area thresholds for disturbance from five-acres to one-acre. As such, Section 1.2.5.3 page 5.1-45 under Consideration of Other Required Permits of the KSWDM shall be revised as follows:

Coverage under the **NPDES Construction Stormwater General Permit** from the state Department of Ecology is required for projects that will disturb more than five one acre. The five-acre one-acre threshold applies even where the five acres are one-acre is to be disturbed in phases, as long as the construction is "part of a larger common plan of development or sale".

Again, all of the above changes to the KSWDM are required under the city's NPDES Municipal Stormwater Permit as mandated by the federal Clean Water Act. Please notify users of the KSWDM of these revisions.

2. Updated Kent Surface Water Design Manual Maps:

All reference maps included in the KSWDM have been updated to reflect the revised city limits and changes included in this Blanket Adjustment. These maps include the following:

- 1. Flow Control Applications Map
- 2. Water Quality Applications Map
- 3. Landslide Hazard/Landslide Hazard Drainage Areas Map
- 4. Erosion Hazard Areas Map
- 5. Wetlands Map
- 6. Soils/Wellhead Areas Map

A few items of note on the revised KSWDM Maps include:

- Water Quality Applications Map Consistent with the NPDES requirement described above, the water quality applications map has been revised to require treatment of pollution generating surfaces for projects (new and redevelopment projects) causing one acre or greater of disturbance.
- Landslide Hazard/Landslide Hazard Drainage Area Map This map does not include all Landslide Hazard *Drainage* Areas in the city (peach colored areas on the map) more notably in the Panther Lake Area (annexed by the city in 2011). As described on the map legend, determination of Landslide Hazard *Drainage* Areas shall be made in a separate analysis.

Please notify users of the KSWDM of the described map changes. All of the revised maps are included as an attachment to this memo.











