

WSDOT's Stormwater Permit Compliance & Funding

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**Transportation Commission
March 23, 2011**

Stormwater: The Leading Water Quality Problem in Washington*

What is stormwater ?

Rain and snow melt running across the land, rooftops, industrial sites, residences, construction sites, parking lots, roads, etc.



**Per Department of Ecology – photo courtesy of Department of Ecology*



Photo courtesy of Department of Ecology



Photo courtesy of Department of Ecology

WSDOT Stormwater Permit

First permit issued to WSDOT in 1995

- Permit applied only to areas in unincorporated King, Pierce, and Snohomish Counties and the cities of Seattle and Tacoma
- Relied on 1992 Stormwater Management Manual for the Puget Sound Basin

Permit reissued February 4, 2009

- Relies on 2008 Highway Runoff Manual
- Permit appealed and modified May 5, 2010

Why is WSDOT Managing Stormwater?

- Efficient drainage of stormwater off pavement for safe driving conditions and roadway integrity.
- Stormwater runoff contributes to water quality problems and erosion.
- Improving stormwater management is important to Puget Sound and salmon recovery efforts.
- WSDOT is owner of a storm sewer system per federal rules.
- Permit required under federal Clean Water Act and state Water Pollution Control Act.



Interstate 405 in Bellevue

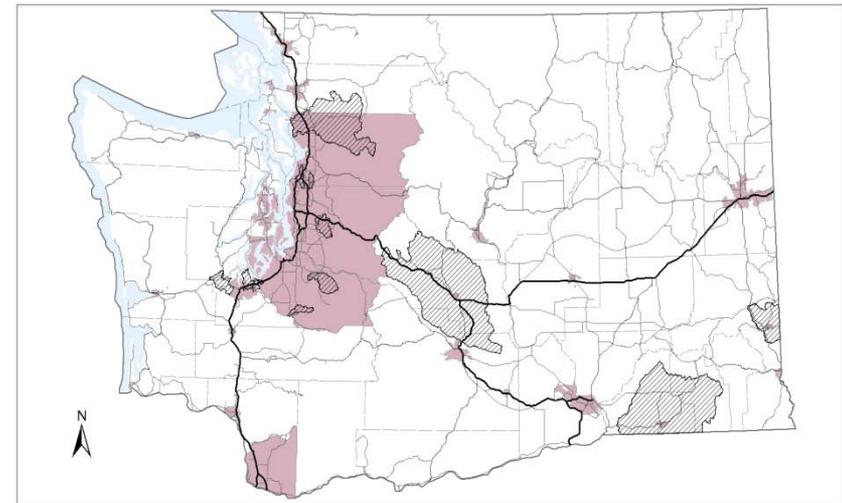
WSDOT's Stormwater Permit Compliance

This Department of Ecology Permit:

- Regulates stormwater discharges from state highways and related facilities (maintenance yards, ferry terminals, rest areas, park & ride lots).
- Expands coverage to stormwater discharges in most urban areas of the state.
- Requires stormwater control devices for new pavements, a retrofit program for existing pavements, maintenance of all catch basins and other stormwater control devices, water quality monitoring, and drainage system inventory & mapping.

New Costs:

Maintaining Stormwater Features	\$11,153,000
Monitoring Stormwater	\$2,132,000
Mapping Stormwater Features	\$877,000
All Other Requirements	\$955,000
2011-13 Request Total	\$15,117,000



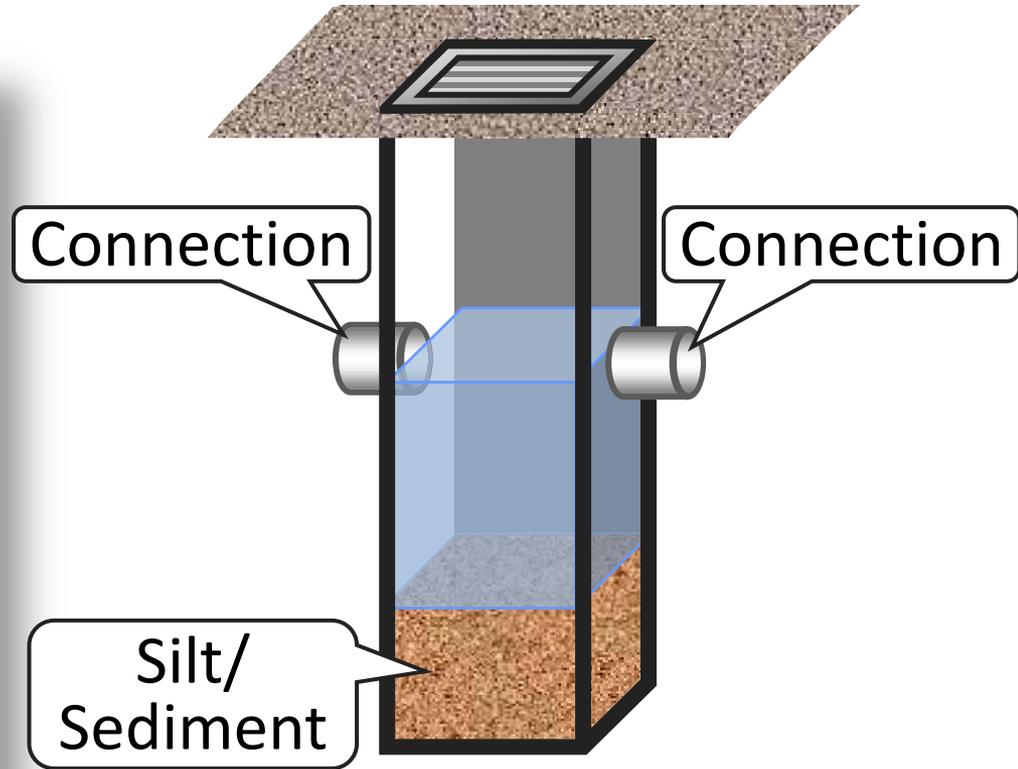
Data Source: Ecology Approved TMDL Areas and Permit Areas from WAECY
State Routes from WSDOT at scale of 500K
State and County Boundaries from WAENR
Cartography: WSDOT 4/20/11

0 5 10 20 30 40 50
Miles

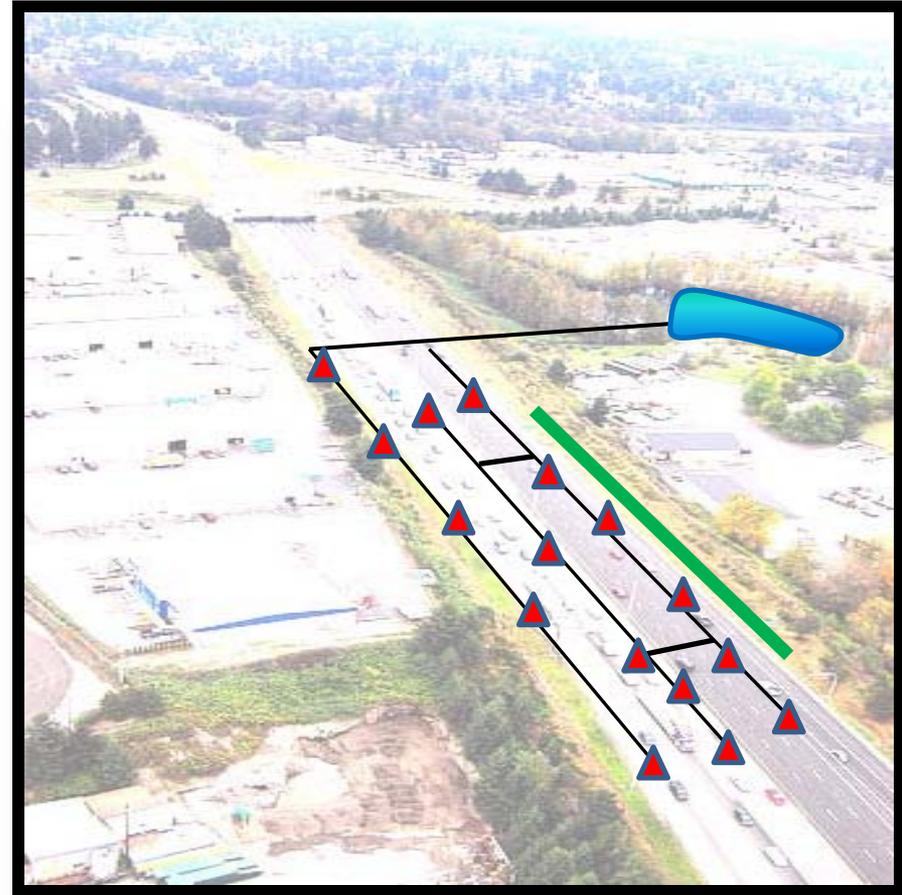
Permit Area
Ecology Approved TMDL Areas

Washington State
Department of Transportation

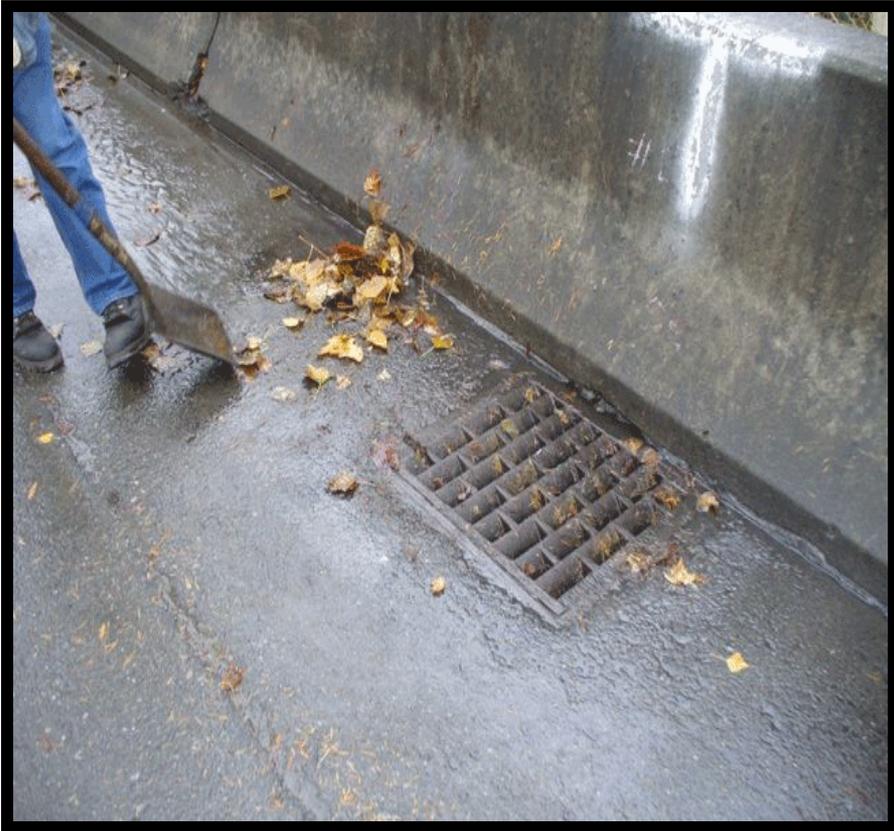
Maintaining Stormwater Features



Maintaining Stormwater Features



Maintaining Stormwater Features



Maintaining Stormwater Features

- Estimated 30,000 catch basins and 1,900 stormwater control devices in permit area
 - 8,600 catch basins not currently maintained to standards
 - Existing 12 vector trucks are near capacity for maintaining statewide catch basin inventory (both inside and outside permit area).
 - Requesting three additional vector trucks and accompanying crews.
 - Three trucks can maintain 7,500 catch basins per year.
 - Remaining workload will be spread across all trucks and crews.
 - Vector trucks not available from equipment rental stores.
 - Local government vector trucks not available for state use.

Maintaining Stormwater Features

Stormwater Control Device Maintenance **\$5.04M**

- Annually inspect and maintain stormwater ponds, grassy swales, and other stormwater control devices

Catch Basin Maintenance **\$3.03M**

- Annually inspect and maintain catch basins and dispose removed sediment

Stormwater Pollution Prevention Plan Implementation **\$1.10M**

- Implement plans developed for facilities to minimize stormwater impacts through regular inspection, cleaning, and capital improvements

Sweepings Management **\$0.35M**

- Cleaning road sweepings for re-use as traction sand or filling low spots on roadside shoulders and seeding with grass

Facilities for Maintenance **\$1.63M**

- Combination of leased and constructed buildings to house new maintenance employees and new equipment

Total Maintenance Costs	\$11.15M
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Stormwater Monitoring and Mapping

Stormwater Monitoring (Sampling and Testing)

\$2.1M

- Sample and test water at 20 sites statewide to determine what pollutants are in runoff from highways, ferry terminals, maintenance yards, etc. Also, test for toxicity and evaluate how effective stormwater control devices are at removing pollutants.

Stormwater Inventory and Mapping

\$0.88M

- Map all outfalls and stormwater features and establish way to keep up-to-date; map pipes and ditches leading to outfalls.



Bioswale and Infiltration Pond System on SR 18



Questions?

For additional information on WSDOT's Stormwater Permit,
please contact:

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