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Publication Title <i>Highway Runoff Manual</i>	Publication Number M 31-16
Originating Organization Engineering and Regional Operations Division, Environmental and Engineering Programs Headquarters Environmental Services and Hydraulics	

Remarks:

WSDOT revised the *Highway Runoff Manual* (HRM), M 31-16, effective June 30, 2008. All projects going to Ad must comply with the requirements and guidelines contained in the June 2008 HRM one year from the effective date of the WSDOT NPDES Municipal Stormwater Permit, which is projected by the Washington State Department of Ecology (Ecology) to occur in fall 2008. Ecology has proposed that the manual be formally deemed *equivalent* upon issuance of the WSDOT Municipal Stormwater Permit. However, Ecology’s proposal is subject to public comment during the draft permit’s comment period, which ends June 24, 2008.

All projects that require a Section 401 Water Quality Certification have to meet (as they have had to meet since 7/01/2007) the applicable requirements and guidelines contained in Ecology’s *2005 Stormwater Management Manual for Western Washington* or *2004 Stormwater Management Manual for Eastern Washington* OR those contained in the 2008 HRM.

Distribution:

The HRM is distributed online: www.wsdot.wa.gov/publications/manuals/index.htm

Instructions:

The *June 2008 Highway Runoff Manual* (HRM) revision improves content clarity and reflects advancements in stormwater management and improvements in design tools. Significant changes include:

- Corrections for several items contained in the *WSDOT Municipal Stormwater Permit Public Review Draft* version of the manual (May 2008 Draft HRM).
- Revised project process descriptions associated with stormwater design in *Chapter 2* as well as the introduction of new tools to aid in the consistency of design information used in environmental documentation and hydraulic reports (see the *Stormwater Design NEPA/SEPA Documentation Checklist* and *Stormwater Design Documentation Spreadsheet*, both available for downloading on the HRM web page as editable documents).
- New guidelines in *Chapters 2* and *3* for assessing whether project-driven stormwater retrofit obligations can be met off-site.
- Updates to special design considerations in *Chapter 2* for aquifers and wellhead protection areas.
- The *Endangered Species Act Stormwater Design Checklist* has been revised and removed from the manual. It has been made available for downloading on the HRM web page as an editable document.
- Extensive enhancements to the *minimum requirement applicability flow chart* in *Chapter 3* to guide the designer through the entire stormwater minimum requirement decision-making process from the *project level* to the *threshold discharge area level*.

- Updates to guidelines provided for *Minimum Requirements 1* (stormwater planning), 3 (source control), 5 (runoff treatment, including more stringent AADT thresholds), and 6 (flow control, including more stringent design standards for western Washington).
- Updates to *Chapter 3's* stormwater retrofit guidelines, including inclusion of a stormwater retrofit analysis flow chart.
- Updates to *Chapter 4's* hydrologic analysis flow charts.
- Refined guidelines in *Chapter 4* for temporary construction site erosion and sediment control to be consistent with the reissued NPDES Construction Stormwater General Permit.
- Refined guidelines for flow control facility design in *Chapter 4*, including modeling pond footprint requirements.
- Refined guidelines in *Chapter 4* for infiltration design, including updated compost-amended vegetated filter strip (CAVFS) modeling procedures.
- Updates to *Chapter 4's* Underground Injection Facilities guidance.
- Refined design criteria in *Chapter 5* for several best management practices (BMPs), including vegetated filter strips and compost-amended vegetated filter strips (CAVFS), media filter drain (previously referred to as the ecology embankment), wetponds, constructed stormwater treatment wetlands, bioinfiltration ponds, infiltration ponds, permeable pavements, natural and engineered dispersion, and detention ponds.
- Revisions to the BMP selection processes and flow charts in *Chapter 5*.
- Additional information in *Chapter 5* on the demonstrative approach compliance pathway.
- Changing the name of the *ecology embankment* to *media filter drain*.
- *Chapter 6* rewritten to reflect changes in the reissued *NPDES Construction Stormwater General Permit*.
- *Chapter 6* separates sampling guidance for in-water work projects and *NPDES Construction Stormwater General Permit Requirements*.
- *Appendix 6* changes include: refined design criteria for PAM, high visibility construction fencing, temporary sediment traps and ponds, dispersion/infiltration, pH neutralization, and chemical treatment.
- Glossary enhancements.
- Instructions on how to receive e-mail announcements regarding HRM-related updates, training opportunities, and improvements in design tools.
- Information regarding the availability of HRM-related training.

Periodic updates to this manual will be published only on the Internet. If you use a printed or CD ROM copy of the manual, you must consult the *Highway Runoff Manual Resource web page* for postpublication updates to verify the information you have is up to date. To receive e-mails announcing updates, training opportunities, and improvements in design tools, send a blank e-mail to: subscribe-stormwater_list@lists.wsdot.wa.gov

For More Information:

Please consult:

WSDOT *Highway Runoff Manual Resource web page*:

www.wsdot.wa.gov/Environment/WaterQuality/Runoff/HighwayRunoffManual.htm

WSDOT *Environmental Services Office Stormwater and Watersheds Program web page*:

www.wsdot.wa.gov/Environment/waterquality/

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