



**Washington State  
Department of Transportation**

**Aviation Stormwater Design Manual Task Force**

Meeting Summary

WSDOT Urban Corridors Office, Seattle

July 16, 2008

**Task Force Members:**

Aaron Moldver - Environmental Management Specialist, Port of Seattle

Cayla Morgan - Environmental Protection Specialist, FAA

Ed Abbasi - Engineer, Department of Ecology

Greg Wingard - Regional Commission on Airport Affairs

Jeff Winter - Civil Engineer, FAA

Laurence Schafer - USDA

Kelly Simpson - Legislative Staff, telephone

Dick Gersib - Stormwater & Watersheds Program Manager, Environmental Services Office, telephone

**Members of Public Present:**

Chas Talbot - Operations Manager, Regional Commission on Airport Affairs

**WSDOT Aviation:**

John Shambaugh - WSDOT Aviation

Carter Timmerman - WSDOT Aviation

David Felstul - Herrera PM, Herrera Environmental, Consultant

**Welcome:**

The meeting was called to order by WSDOT Senior Planner, John Shambaugh, at 10:43 a.m. and members introduced themselves and who they represented.

## **Meeting Objectives:**

John Shambaugh began the meeting with a PowerPoint presentation which included:

- Project Overview
- Project Objectives
- Task Force and subcommittee comments on Draft Manual
- Proposed Manual Modifications
- Draft Airport Stormwater Design Manual Overview
- Schedule and Next Steps

David Felstul, Herrera Environmental, stated the manual will not only benefit safe airport operation but also benefit specific types of wildlife by reducing the likelihood of attracting them to aviation facilities.

## **Project Overview:**

- WSDOT Aviation directed to gather interested parties to explore solutions to stormwater and other wildlife attractants near airports
- Twenty-eight member task force was formed in 2004
- Task force recommendations in 2004:
  - Draft memorandum of understanding
  - Develop mediation process
  - Develop an Airport Stormwater Guidance Manual

In 2006, WSDOT Aviation received an Airport Improvement Program Grant from the FAA to develop an Airport Stormwater Guidance Manual. Project objectives of the manual included:

- Safety
- Compliance with regulatory requirements
- Consideration of airport operations
- Integration of stormwater BMP's with wildlife attractant BMP's
- Predictability in the regulatory process
- Approval by Department of Ecology and WSDOT

The draft stormwater manual was circulated to Task force/subcommittee members and resource agencies beginning in December with the majority of comment received by WSDOT at the end of January.

The following represent the majority of comments received on the first draft manual.

- Regulatory status
- Manual organization

- Approved vegetation
- Identifying wildlife of concern
- Certified wildlife biologist
- Impacts on wildlife
- Open water controls
- Area of influence

In May the Task Force and subcommittee were consulted on the following manual modification options:

1. Integrate the stormwater runoff manual with the WSDOT Highway Runoff Manual (HRM) and seek approval from the Department of Ecology for equivalency
2. Develop the stormwater guidance as a stand-alone, supplemental guidance manual. The supplemental manual would be used in conjunction with the Department of Ecology's stormwater guidance, WSDOT Highway Runoff manual (HRM) or an equivalent stormwater guidance manual approved by the department of Ecology.

Option two was selected after a consensus was reached with the members through email. Beginning in May the consultants set to work on the redraft of the manual. The second draft manual was circulated to the task force/subcommittee and resource agencies in July for review and comments. Comments on the second draft will be incorporated into the manual with comments due by July 31<sup>st</sup>. The draft manual was structured to include the following information:

### **Draft Airport Stormwater Design Manual Overview**

- Chapter 1: Introduction
  - Purpose
  - Federal and State Regulations
- Chapter 2: Airport Operations and Stormwater
  - Airport Operations Zones and Restrictions
  - Airport Stormwater Considerations
- Chapter 3: Stormwater and Wildlife Planning
  - Wildlife Inventory and Monitoring
  - Site Planning
  - BMP Considerations and Adaptive Stormwater Facility Design
- Chapter 4: Best Management Practices and Selection
  - Flow Control and Treatment
  - Selection Process
- Chapter 5: Hydrologic Considerations for Airports
  - Methods of Analysis

- Infiltration and BMP Design
- Chapter 6: BMP for Stormwater
  - Source Control
  - Operations and Maintenance

### **Discussion points**

- The BMP references in the manual are represented by a different reference code than the Highway Manual making it easier to use and cite.
- More photos are needed. and a request is made for more pictures
- Hard copies should be forwarded to libraries for public disclosure
- Impacts on changing the food web should be considered.
- This manual does not impact existing habitat, but newly created or modified stormwater facilities near airports.
- BOD should be addressed.

### **Public Comment and Next Steps**

- Task Force, Tech. Sub-Committee & Staff Review
  - Task Force Review and Comment- July 31st
  - Record Comments and Amend Manual
- Proposed Public Review & Comment
  - Public Meeting: August 14 Normandy Park
  - August 16, Spokane
- Incorporate public comments into draft manual.
- Department of Ecology and WSDOT Review and Approval September/October

Mr. Shambaugh and Mr. Felstul adjourned the meeting at 12:03 p.m.