



WAMA 2022 | May 11, 2022

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Airport Industrial SWPPPs



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Preparing SWPPPs

Phases

1

Planning and Organization

- Pollution prevention team
- Evaluate existing or prepare new SWPPP

2

Assessment

- Site map
- Exposed materials and spills inventory
- Identify industrial activity
- Evaluate monitoring data
- Investigate illicit discharges

3

BMP Identification

- Operational
- Source control
- Erosion and sediment control
- Treatment

4

Implementation

- Implement BMPs
- Train employees

5

Evaluation/Monitoring

- Sampling
- Visual inspections
- Maintain and update records
- Review, revise, implement SWPPP

Planning and Organization Phase

- SWPPP Objectives
 - Protect environmental quality
 - Permit compliance
- When is a SWPPP required?
- Pollution prevention team
 - Identify key personnel

SWPPP Required

- Discharge to waters of the state

Exemptions

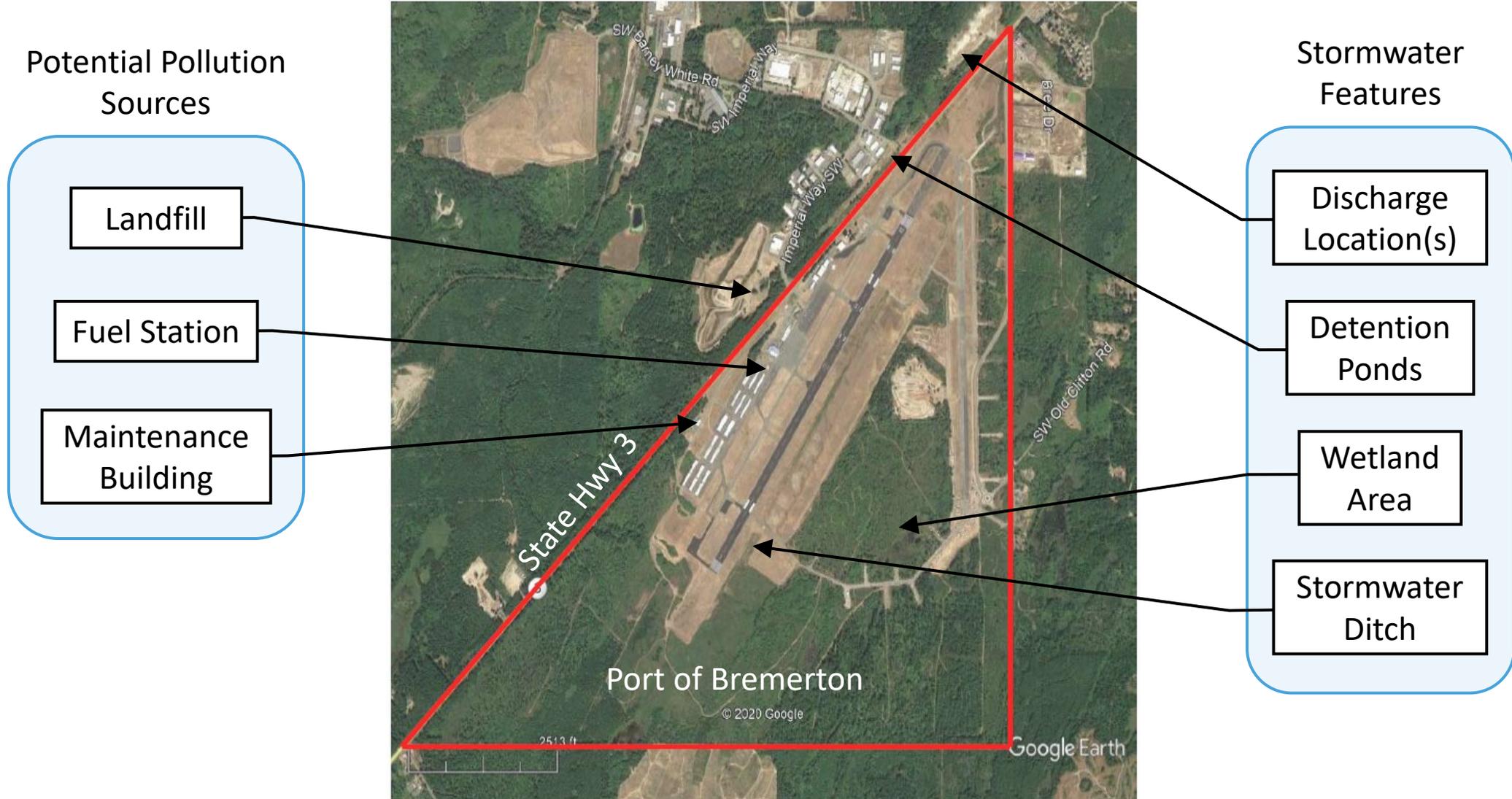
- No discharge to waters of the state (on-site infiltration)
- Not a significant contributor of pollutants

Updated SWPPP

- SWPPP determined to be ineffective
- Significant change in site

2 Assessment Phase

Site Map



2 Assessment Phase Inventories

- Materials inventory
 - Describe how materials are handled, treated, stored, and disposed
 - Past spills and leaks of pollutants
- Industrial areas
 - Pollutant-generating activities/areas
- Existing systems
 - Drainage system components



BMP Identification Phase

Unique Considerations for Airports

Wildlife Concerns/Subsurface BMPs



Groundwater Table



Oil Treatment



Implementation Phase

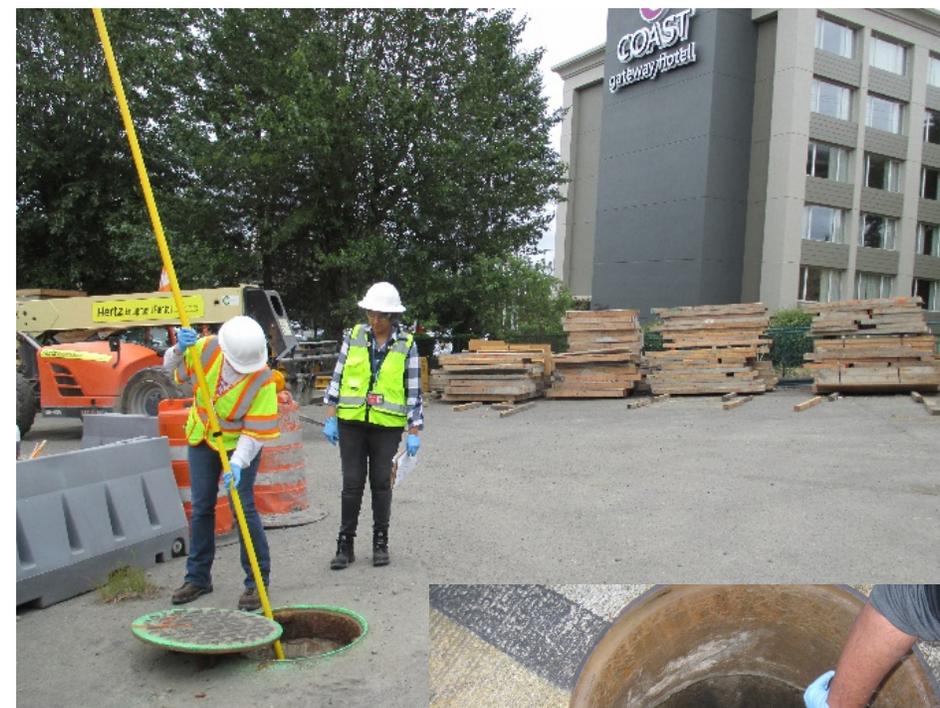
Fueling

- Standard precautions
 - Designated fueling area
 - Usage tracking
 - Underground vs. above ground
- When draining to storm system
 - Oil/water separator
 - API design (older approach)
 - Inclined plate
 - Floating absorbents (straw bag or other)
 - Dead-end sump



Evaluation/Monitoring Phase Requirements

- Sampling is key indicator that SWPPP is working
- Monitoring plan
 - Sample from points with greatest pollutant exposure
 - Must be a qualifying storm event
 - Visual monitoring
- Example from Port of Bremerton
 - Increased monitoring requirements



Resources

- Personal Resources
 - WAMA networking
 - DOE relationships
- Technical Resources
 - WSDOT Aviation Stormwater Design Manual
 - DOE SWPPP for Industrial Facilities Guidance Manual
 - Industrial Stormwater General Permit





Questions?

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