

SEDIMENT MANAGEMENT
ANNUAL REVIEW MEETING

MAY 4, 2016

Adoption of Elements of SEF for Use in DMMP

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Sediment Evaluation Framework for the Pacific NW

- ▶ Sediment Evaluation Framework (SEF) recently updated and will be released later this year
- ▶ Goal: “make sediment evaluation procedures as consistent as possible throughout the Pacific Northwest”

Why Adopt Elements from SEF?

- ▶ DMMP agencies involved in SEF update
- ▶ Help maintain regionally consistent framework
- ▶ DMMP can benefit from advances made in sediment science and management in other parts of the Pacific NW

DMMP User Manual vs. SEF

- ▶ 2015 User Manual was compared to revised SEF to identify differences
- ▶ Some differences due to historical underpinnings (e.g. PSDDA documents) – no need for alignment in these cases
- ▶ Clarification paper provides rationale for adopting or not adopting elements from SEF
- ▶ This presentation covers only those elements that are proposed for adoption

'Very Low' Rank

- ▶ Similar to current DMMP Tier 1 evaluations based on Clean Water Act exclusionary criteria:
 - ▶ coarse grained material
 - ▶ high-energy environment
 - ▶ sufficiently removed from sources of contamination
- ▶ Numerical guidelines:
 - ▶ $\geq 80\%$ retained on #230 sieve
 - ▶ total organic carbon $< 0.5\%$
- ▶ 10-year recency guideline

DMMU Volumes for Projects on Columbia River

- ▶ SEF volume limits for lower Columbia based on high sand content, rapid shoaling and very large maintenance dredging projects
- ▶ Non-port projects on Washington side are currently evaluated using DMMP volume limits
- ▶ Adoption of SEF volume limits makes evaluation consistent for all projects on lower Columbia

Field Sampling Checklist

- ▶ Revised SEF includes this checklist, including:
 - ▶ Paperwork
 - ▶ Sampling equipment
 - ▶ Positioning equipment
 - ▶ Decontamination equipment
 - ▶ Sample processing and handling
 - ▶ Sample packing and shipping
 - ▶ Tools
 - ▶ Personal equipment
- ▶ The checklist may be a useful guide for sampling contractors consulting the DMMP User Manual

Tissue Analysis

- ▶ Revised SEF includes a table with recommended prep methods, analytical methods and sample quantitation limits for tissue analysis
- ▶ The DMMP UM doesn't currently have such a table and would benefit from its inclusion



▶ Questions?