



Puget Sound Sediment Cleanup Technology Transfer Workshop

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Sediment Sites Region 10 Approach

- Early and Continued Public Involvement
- Focus on Source Control
- Coordinate w/Sediment Programs
- Work with ESA Agencies
- Identify early action work
- Combine development projects with cleanup
- Emphasize PRP lead/enforcement projects




Coordinate w/Sediment Programs

- Clean Water Act 404(b)(1) – habitat mitigation component of Superfund remedies
- Clean Water Act 401 – water quality certifications
- Corps of Engineers permits for small development projects
- Look for mitigation and restoration opportunities early in process
- Region 10 Developed a detailed sediment RD/RA SOW for Superfund Consent Decree



Remedy Selection and Implementation

- No presumptive remedies
- Combinations of remedies likely
- Confinement best for widespread, low levels of contamination
- Long-term monitoring
- Five-year reviews



EPA Region 10 Superfund Sediment Cleanups

- **Completed Remedial Actions:**
 - St. Paul Waterway
 - Sitcum Waterway
 - Eagle Harbor
 - Old Navy Dump
 - Ketchikan Pulp Company
 - Puget Sound Naval Shipyard
 - Olympic View Resource Area



EPA Region 10 Superfund Sediment Cleanups

- **Ongoing Remedial Actions**
 - Middle Waterway
 - Hylebos Waterway
 - Hylebos Waterway – Occidental (5106)
 - Thea Foss Waterway
 - Todd Shipyard
 - Lockheed Shipyard
 - East Waterway
 - Pacific Sound Resources
 - Asarco
 - McCormick & Baxter



Completed Puget Sound Sediment Cleanup Projects (est. thru 2005)

- Total Acreage of Sites Remediated467 acres
- Dredging/Excavation 3,863,000 cy
- Capping 218 ac
- Piling Removal 9,000 pilings
- Enhanced Natural Recovery 22 ac
- Monitored Natural Recovery 260 ac