

Dredged Material Management Program Testing Activities

Dredging Year 2013

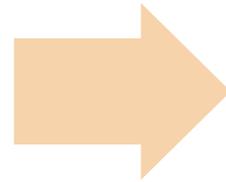
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Seattle District



DMMP Purpose

Given:

existing regulations,
current guidelines,
and project proposal



Evaluate:

potential dredged
material for
suitability for open-
water disposal
and/or beneficial
reuse



Dredging Year Actions

- DY 2013:
16 June 2012 to 15 June 2013
- Decision Documents:
 - Suitability Determinations
 - Others:
 - Ranking
 - Recency Extension
 - Frequency Determination
 - Exclusion from Testing
 - Volume Revision
 - Antidegradation Determination
 - Upland (Contaminated & Beneficial Use)

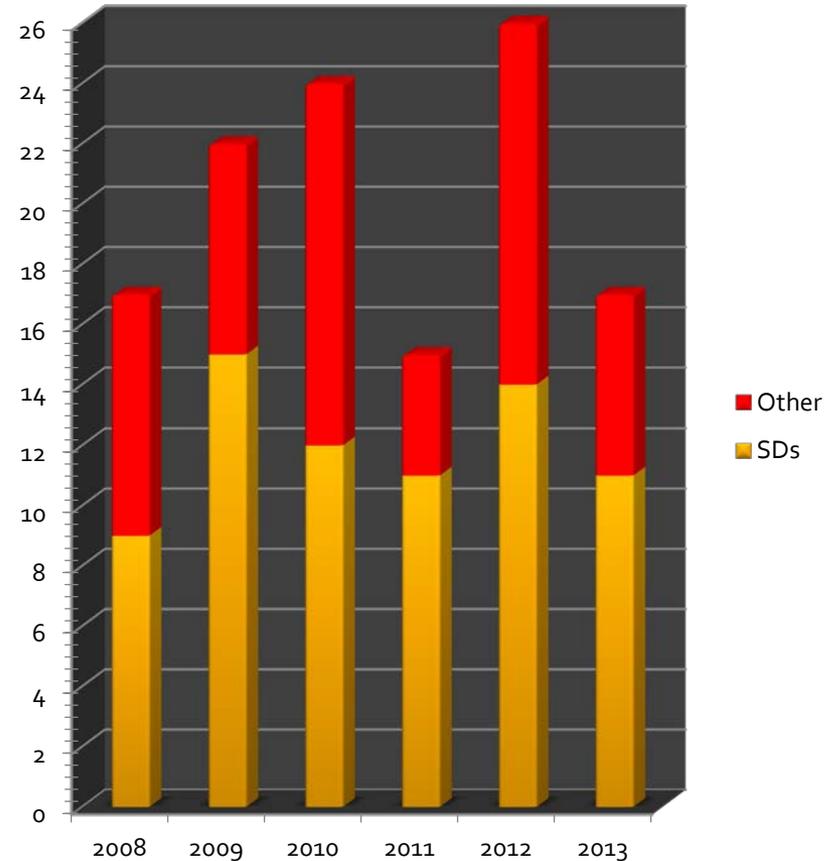


DY13 Completed Actions

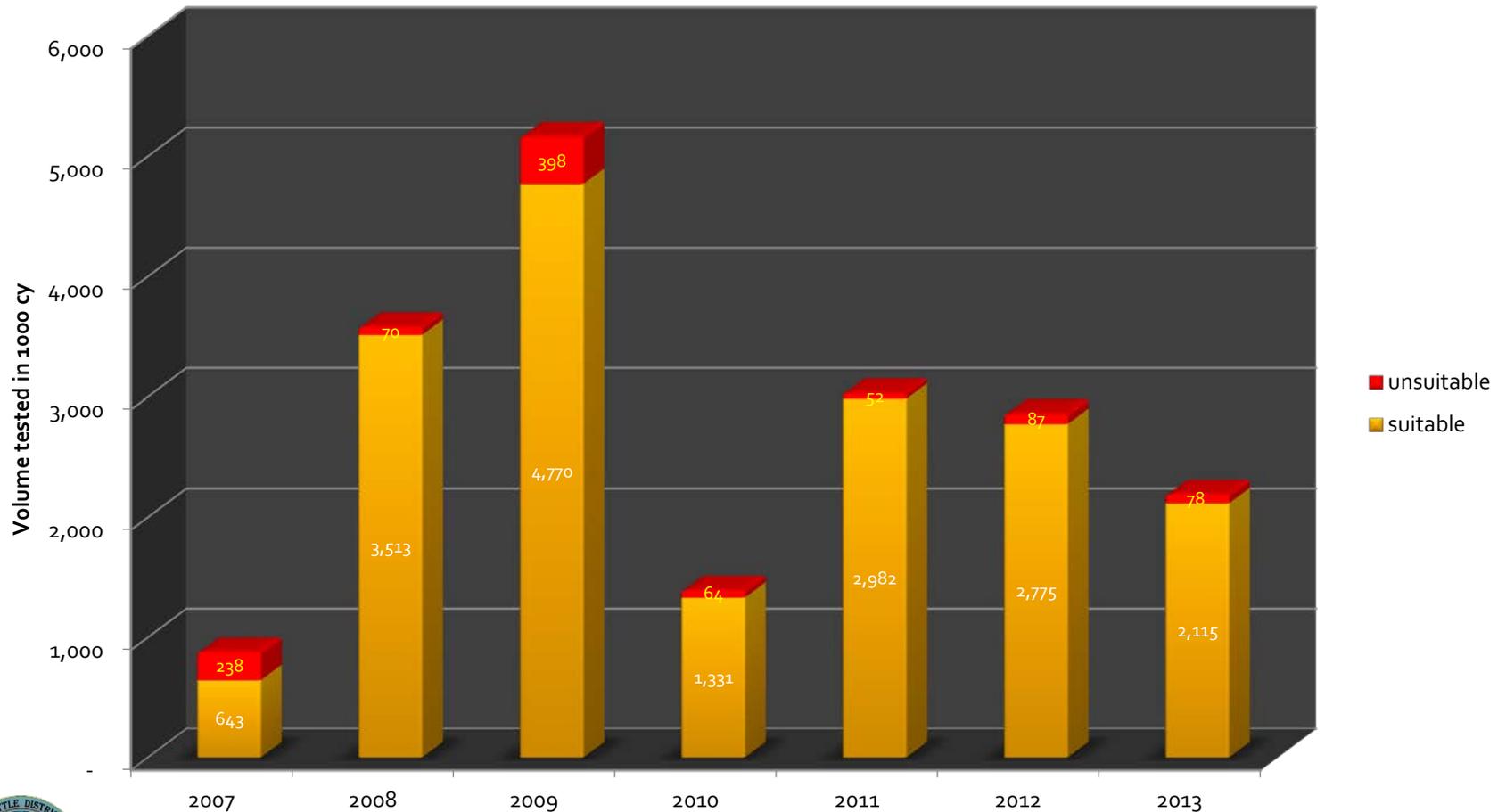
Suitability Determinations (11)

Others:

- Volume Revision (1)
- Recency (1)
- Frequency (1)
- Antidegradation (6)
- Ranking (1)
- No Test (1)
- Upland – Contaminated-Beneficial Use (3)



Suitability by Volume Tested



Projects with unsuitable material

Project	Suitable (cy)	Unsuitable (cy)	Reason	Comments
Port of Olympia Berths 2 & 3 Swantown Boatworks	0	39,000*	Dioxin	Z-samples: Fail Antidegradation (AD)
	0	3,000*	Dioxin	Z-samples: Pass AD
Port of Anacortes, Pier 2	5,450	3,250	TBT	Z-samples: Pass AD
Salmon Bay Marina	8,337	3,563	TBT, Dioxin	Dredge additional foot into native layer
Olympia Yacht Club	9,349	6,892	Dioxin	AD to be performed after dredging completed
USACE Grays Harbor NIP	1,951,412	22,400	Benzyl Alcohol, Bioassays	Bioassay retests confirmed ; Z-samples: Pass AD

*proposed dredged material not tested, presumed unsuitable due to existing dioxin data



Special Chemicals of Concern

- Tributyltin
- Dioxin/Furans
- PBDE congeners (Fire Retardants) – emerging COC (no guidelines yet established)
- PCB congeners (No existing guidelines, existing PCB guidelines Aroclor based)



DISPOSAL

Current Geographic Focus

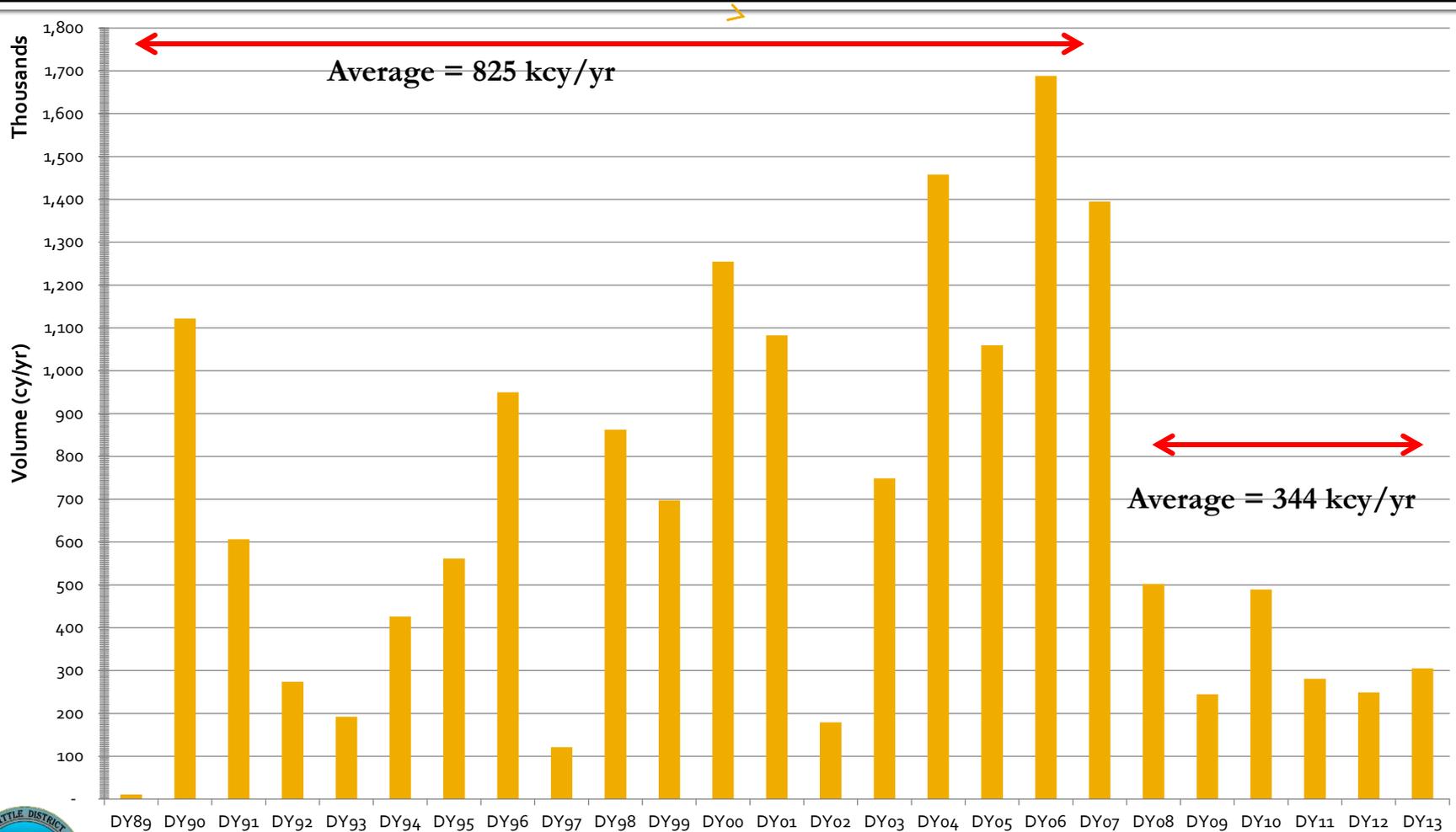
- Puget Sound (8 open-water disposal sites: 5 non-dispersive sites, 3 dispersive sites)
- Grays Harbor (2 estuarine dispersive sites, 2 beneficial use sites, 1 ocean disposal site currently deactivated)
- Willapa Bay (2 estuarine dispersive disposal sites, site-specific “flow lane disposal”)
- WA side of the Lower Columbia River & Snake River (flow lane disposal)



Puget Sound Disposal Sites

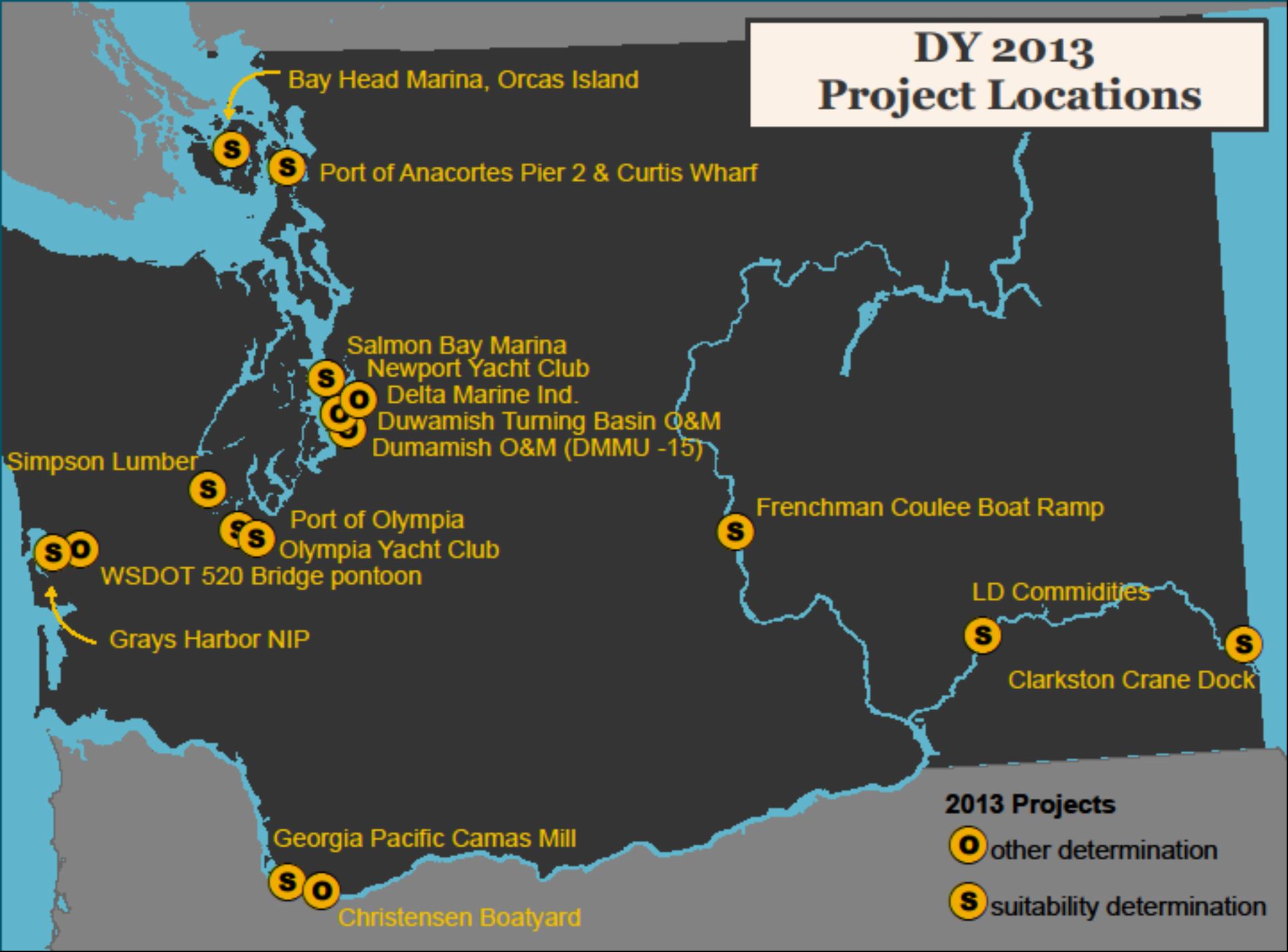


Puget Sound Disposal History



**DREDGING
YEAR 2013**

DY 2013 Project Locations



Bay Head Marina, Orcas Island

Port of Anacortes Pier 2 & Curtis Wharf

Salmon Bay Marina
Newport Yacht Club
Delta Marine Ind.
Duwamish Turning Basin O&M
Dumamish O&M (DMMU -15)

Simpson Lumber

Port of Olympia
Olympia Yacht Club

WSDOT 520 Bridge pontoon

Grays Harbor NIP

Frenchman Coulee Boat Ramp

LD Commodities

Clarkston Crane Dock

Georgia Pacific Camas Mill

Christensen Boatyard

2013 Projects

O other determination

S suitability determination

DY 13 Testing

- Out of 17 completed actions:
 - 10 Projects - chemical testing
 - 8 Projects - included dioxin testing
 - 2 Projects - bioassay testing
 - *No* bioaccumulation testing

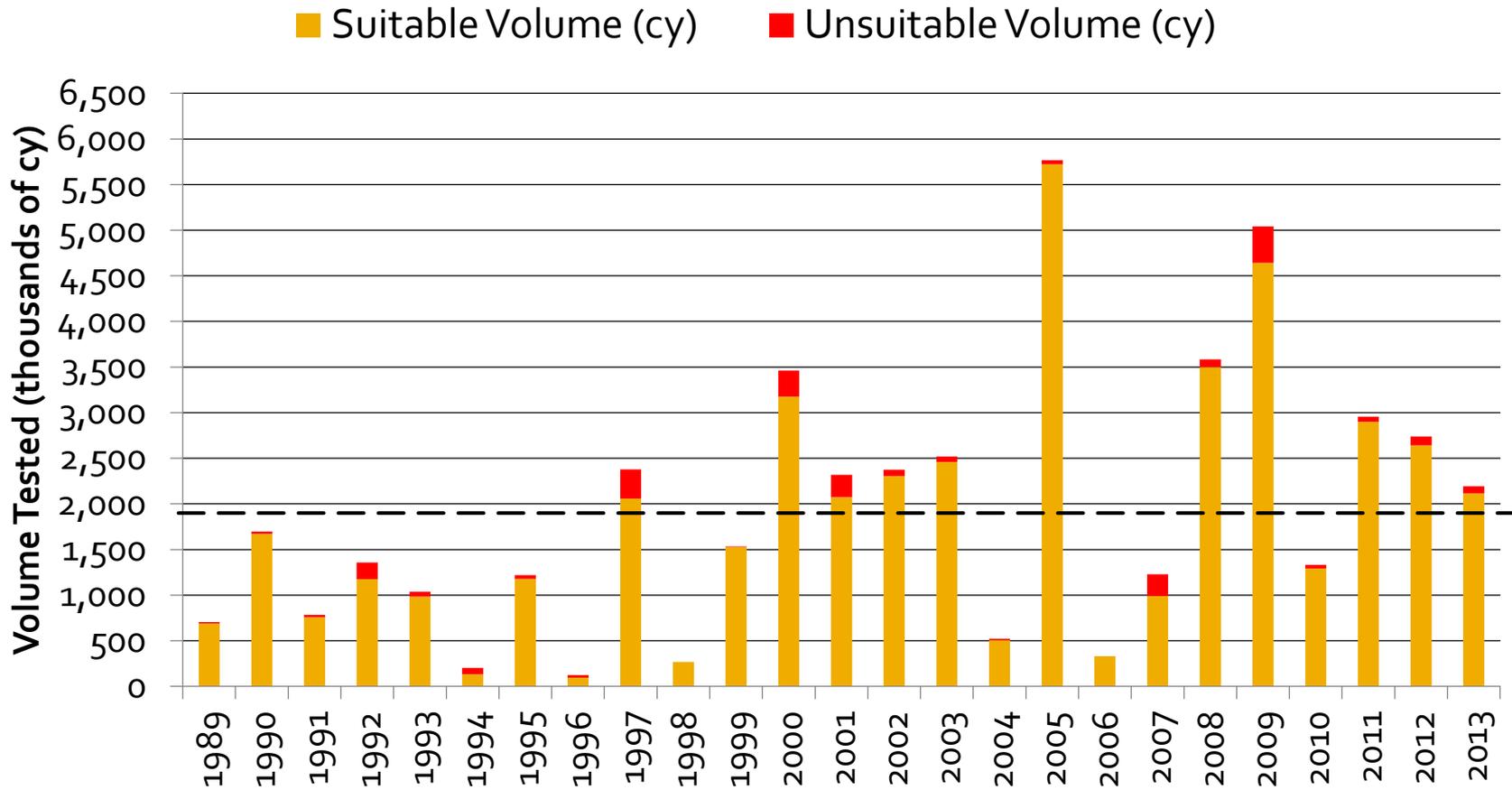


Dioxin Testing 2013

- 3 projects had failures based on dioxin or partially due to dioxin
 - Port of Olympia: Berth's 2 & 3; Swantown Boatworks
 - Salmon Bay Marina
 - Olympia Yacht Club
- 5 projects passed dioxin guidelines for all material

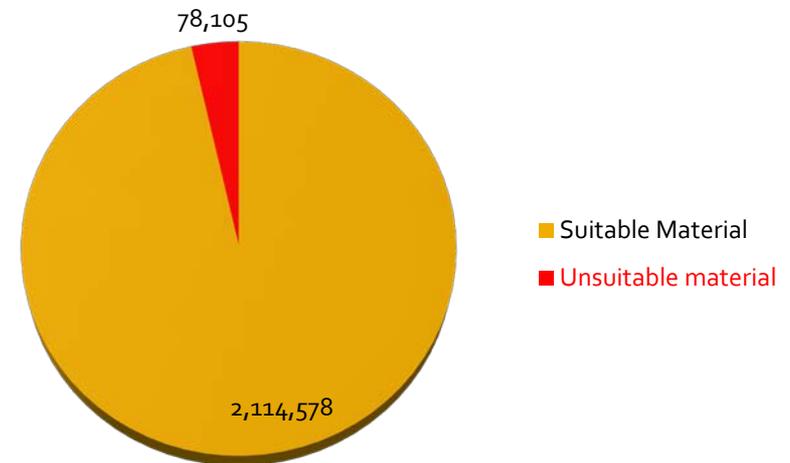


DMMP Testing History



Suitability Overview

- 5/17 projects had at least *some* unsuitable
- Only 1/17 projects with all material unsuitable



Projects under evaluation, but incomplete

Puget Sound area

Duwamish Yacht Club
Kenmore Navigation Channel
& vicinity
Port of Kingston Marina
Mukilteo Multimodal
Dunlap W. Bay Marina
Port of Tacoma Pier 4
Silver King Boat Launch
USN Bangor, Kitsap
USACE Hylebos O&M
MJB Properties, Anacortes
Port of Seattle Terminal 5

Columbia & Snake River

Longview Fibre
Kittitas County Boat Launch
Snake River O&M



Please Check Out Our Newly revised Website

- More User-Friendly
 - Easier search tools
 - Simpler URLs
-
- Website URL:
 - <http://www.nws.usace.army.mil>
 - Search for: Dredged Material Management

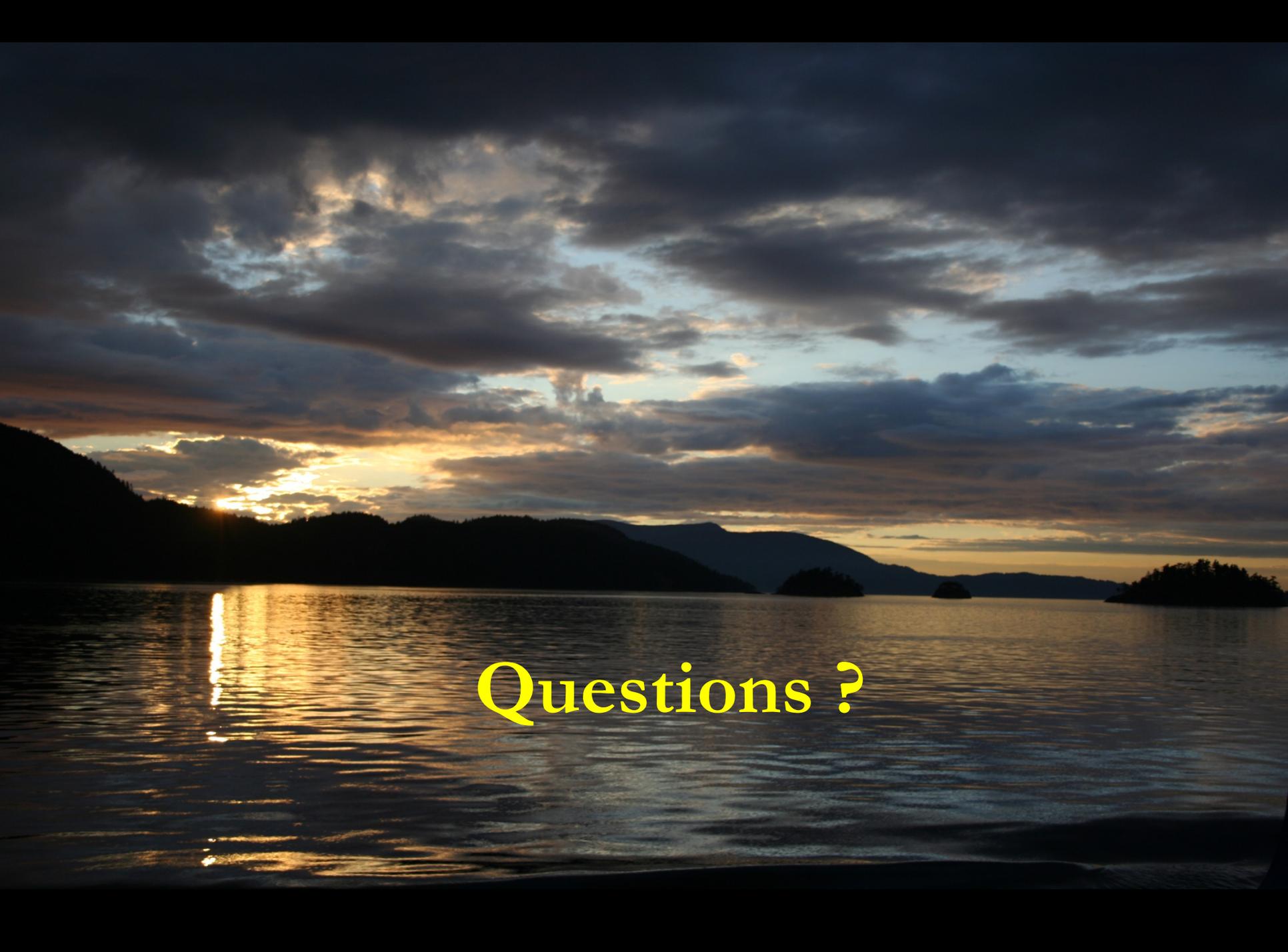


DMMP still needed in 2013



“ Despite years of cleanups, bans on certain chemicals and increasingly stringent regulations, pollution in Puget Sound remains pervasive.”
Seattle PI, October 10, 2006.



A scenic landscape photograph of a sunset over a large body of water. The sun is low on the horizon, partially obscured by dark, silhouetted mountains. The sky is filled with dramatic, dark clouds, with the sun's light breaking through to create a bright, shimmering reflection on the water's surface. The overall mood is serene and contemplative. The text "Questions?" is overlaid in a bright yellow, serif font in the lower-middle part of the image.

Questions ?