

# *Disposal Site Management Activities*

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SMARM 2013



# Site Monitoring

History of program has 25 years of testing and monitoring of the disposal sites

- Monitoring surveys provide positive feedback to verify the adequacy of the dredged material management process
- Site monitoring to date shows dredged material disposal has not caused adverse impacts at or adjacent to any of the non-dispersive sites



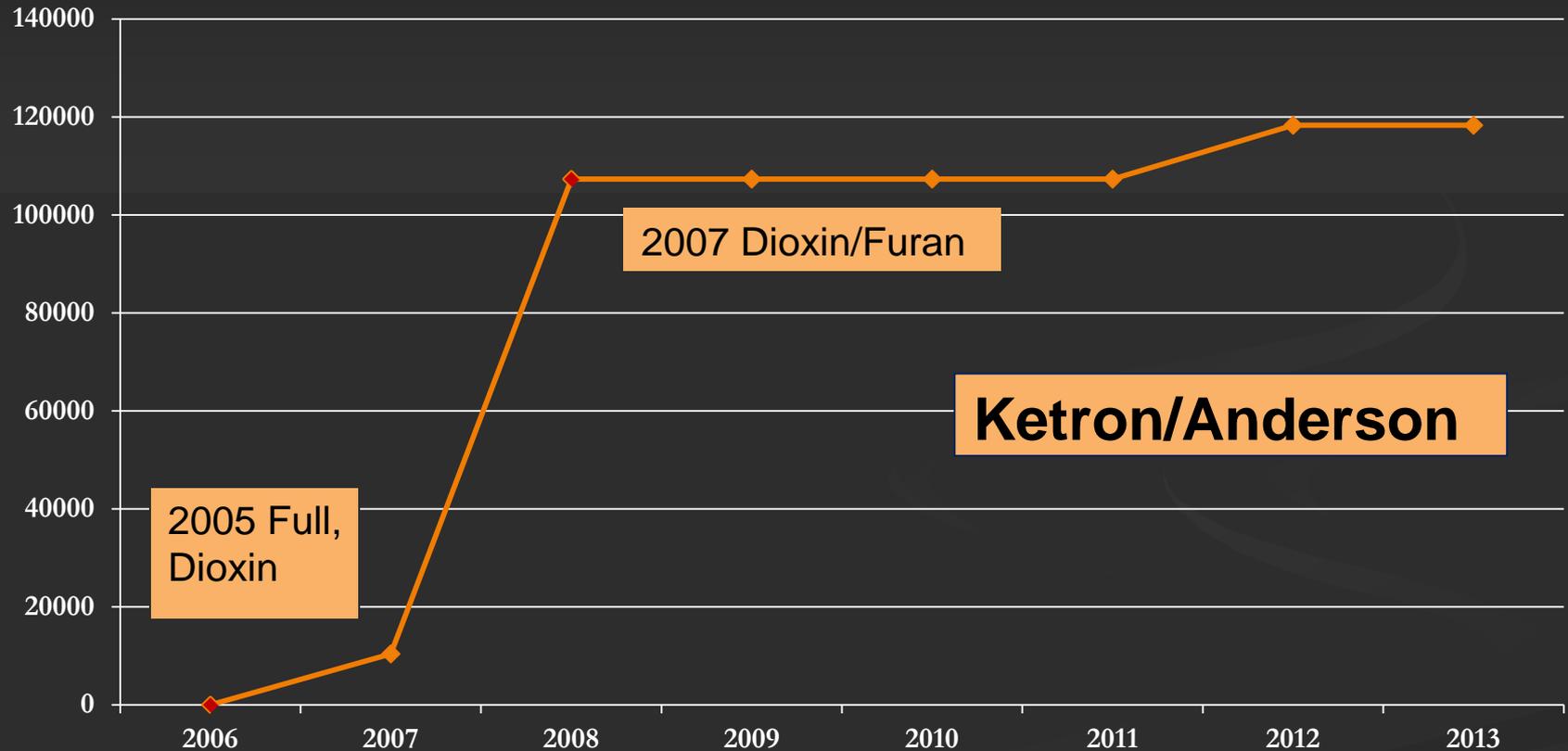
# Site Monitoring

Moved to volume based monitoring trigger in 1997 and reduced frequency and scope of monitoring based on past documented compliance with site management objectives.

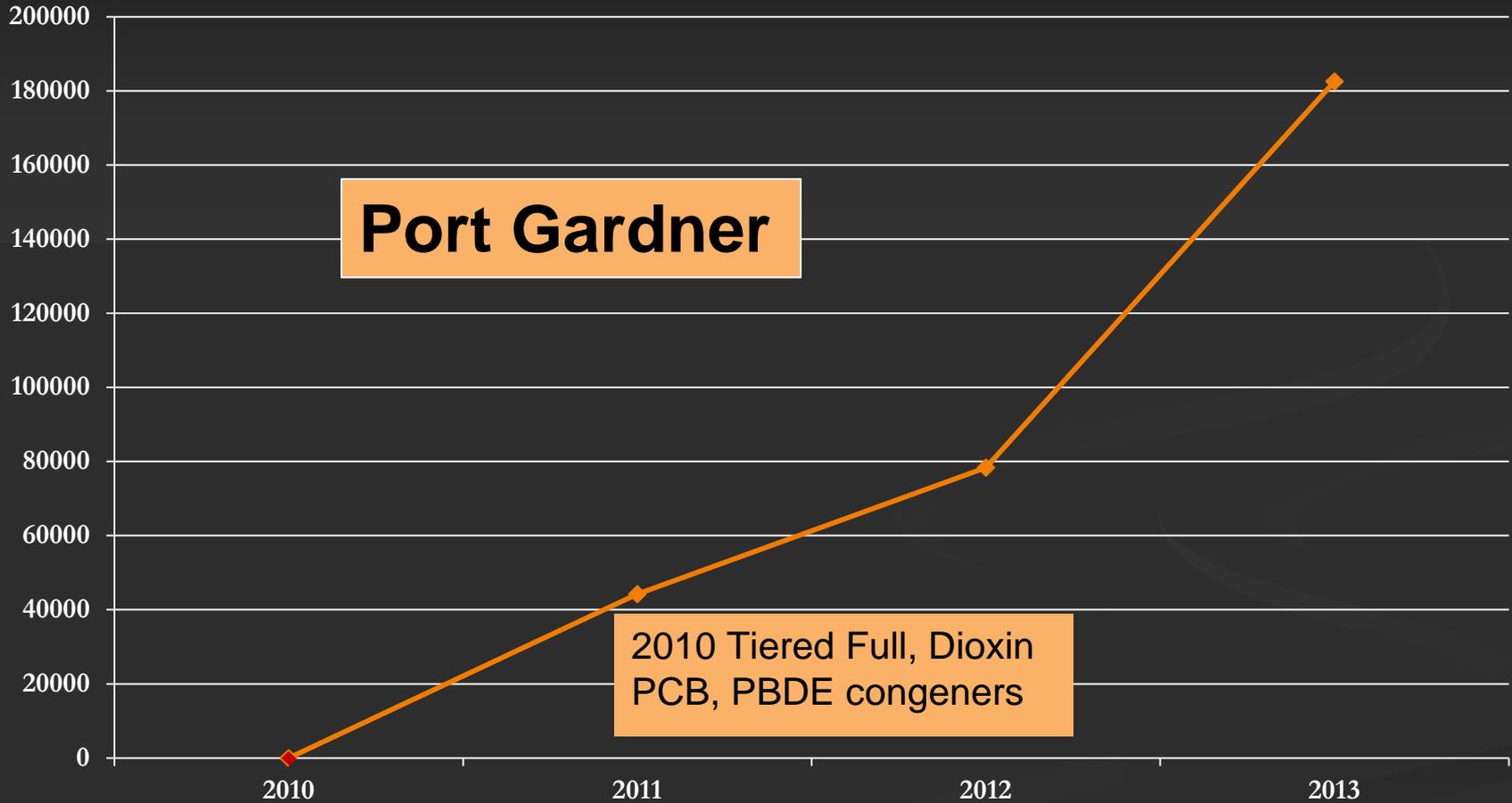
- Following 2002 SMARM increased disposal volume trigger to 500,000 cubic yards at Commencement Bay, Elliott Bay and Port Gardner
- Left trigger at 300,000 cubic yards for Bellingham Bay and Ketrone/Anderson Island due to infrequent use



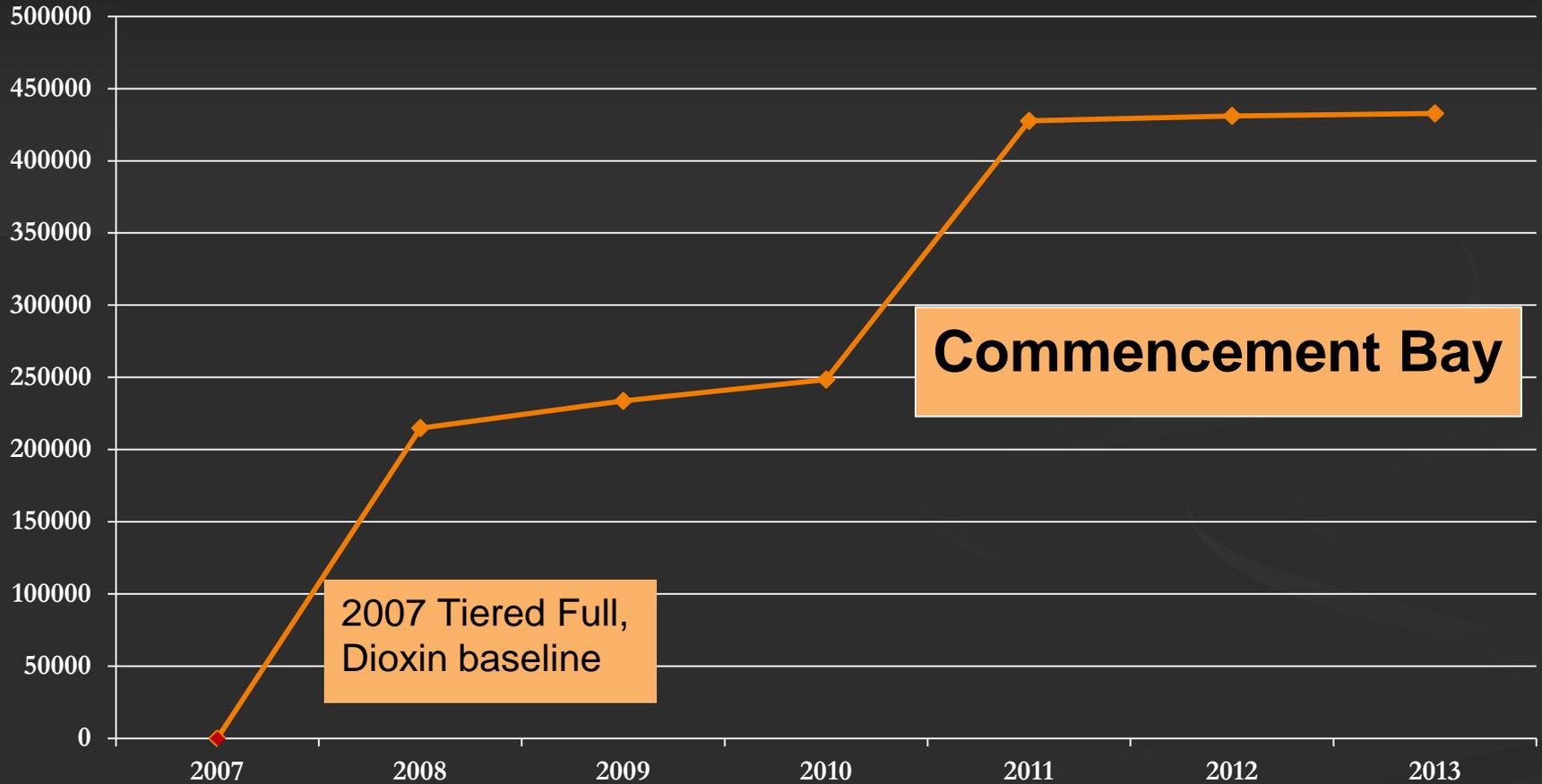
# Cumulative Volumes Since Last Monitoring



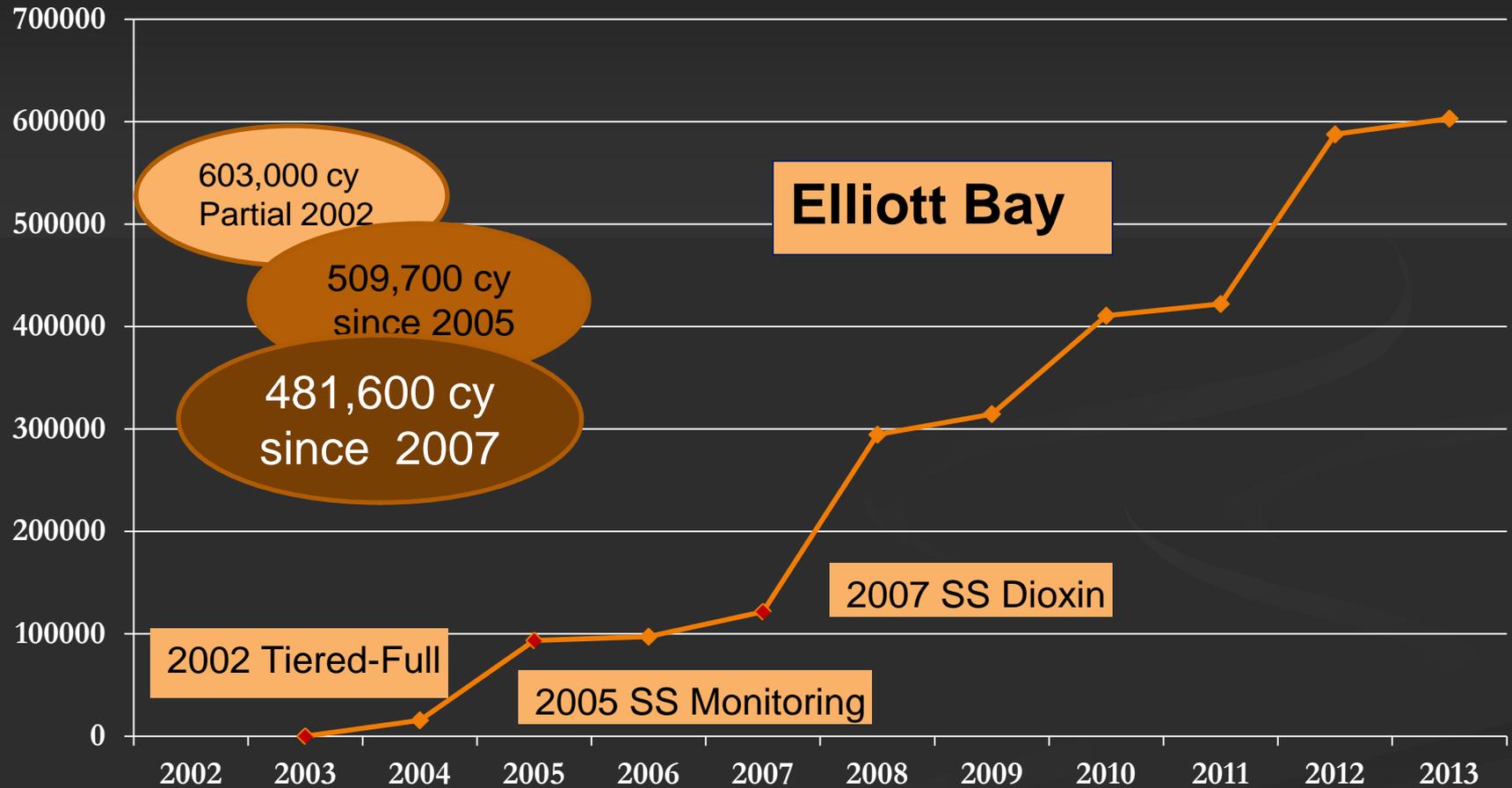
# Cumulative Volumes Since Last Monitoring



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# Cumulative Volumes Since Last Monitoring



# What is a “Soft Trigger”?

When cumulative volumes reach trigger guideline, DMMP agencies evaluate whether or not a monitoring event is needed

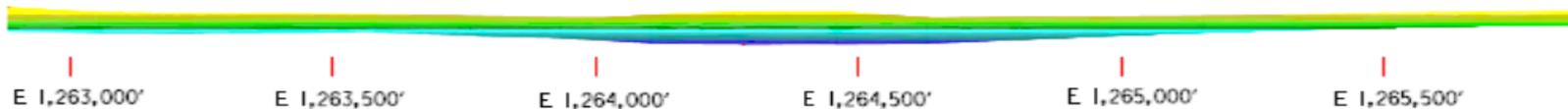
- Analyze frequency of use
- Source and character of material disposed
- Source and character of material to be disposed in near future
- Past monitoring results relative to site use



# Monitoring – DY 2013

## Corps Bathymetric Survey

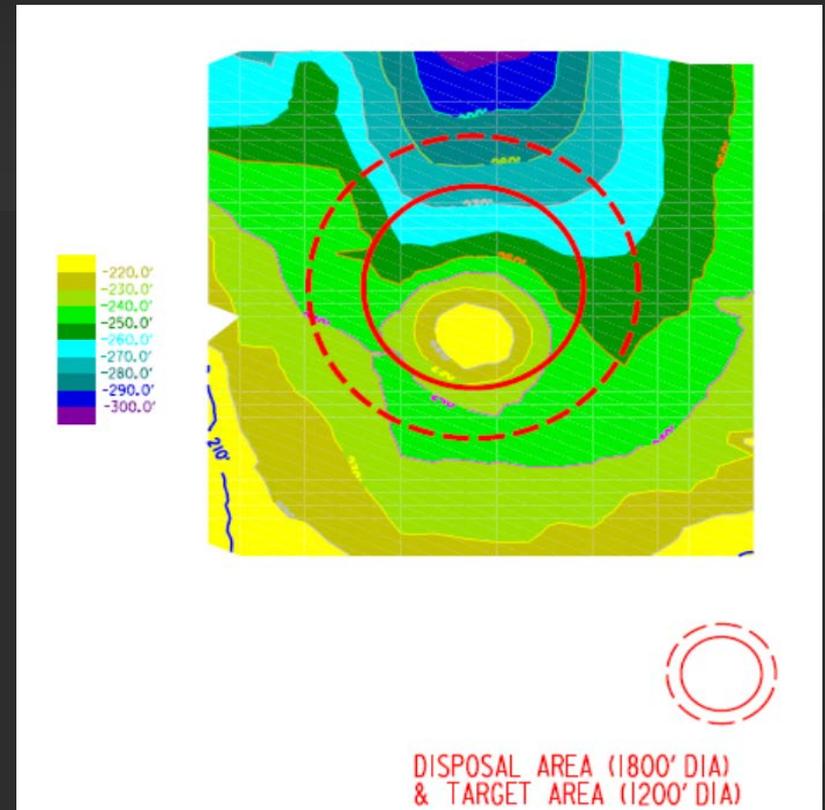
### ELLIOT BAY DISPOSAL SITE VERTICAL VIEW



# Monitoring – DY 2013

## Elliott Bay Bathymetric Survey

- Disposal mound within Target zone and Disposal zone
- Coordinates moved South 300 feet in early 1990's to stabilize edge drift



# Monitoring – DY 2013

- Elliott Bay dioxin – now that dioxin is monitored in the dredge prism
  - Should not see elevated dioxin levels at disposal sites in future
- Would like to conduct tiered monitoring at Elliott Bay this summer



# Aquatic Land Dredged Material Disposal Site Account

- Established in Statute “all funds received by the department from users of aquatic land dredged material disposal sites” (RCW 79.105.510)
- “Moneys in the fund may be spent only for the management and environmental monitoring of aquatic land dredged material disposal sites” (RCW 79.105.510)



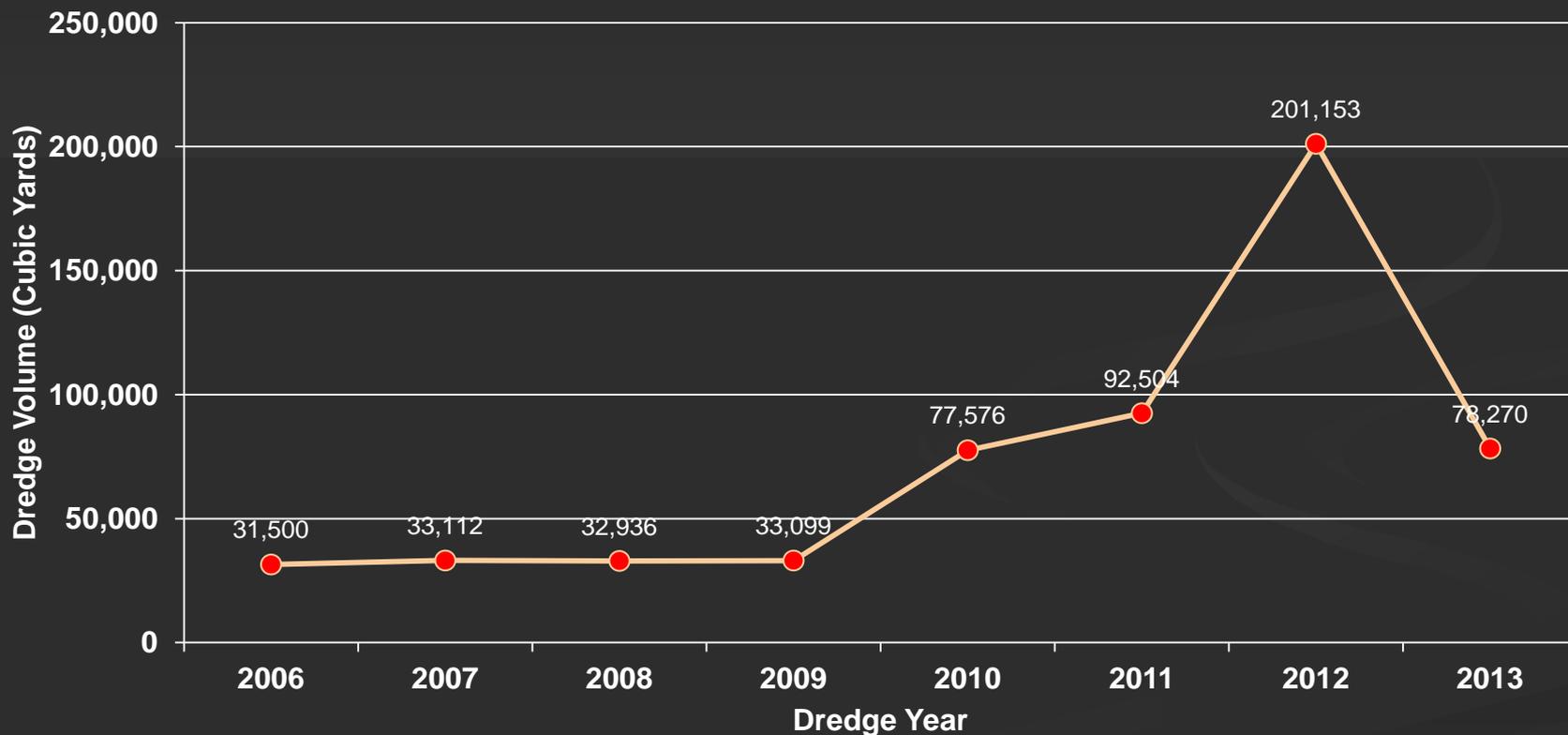
# Aquatic Land Dredged Material Disposal Site Account

- Fees will be charged at rates sufficient to cover all department costs associated with management of the sites (WAC 332-30-166)
- Army Corps of Engineers navigation channel maintenance projects where there is no local sponsor are exempt from this fee schedule. (WAC 332-30-166)

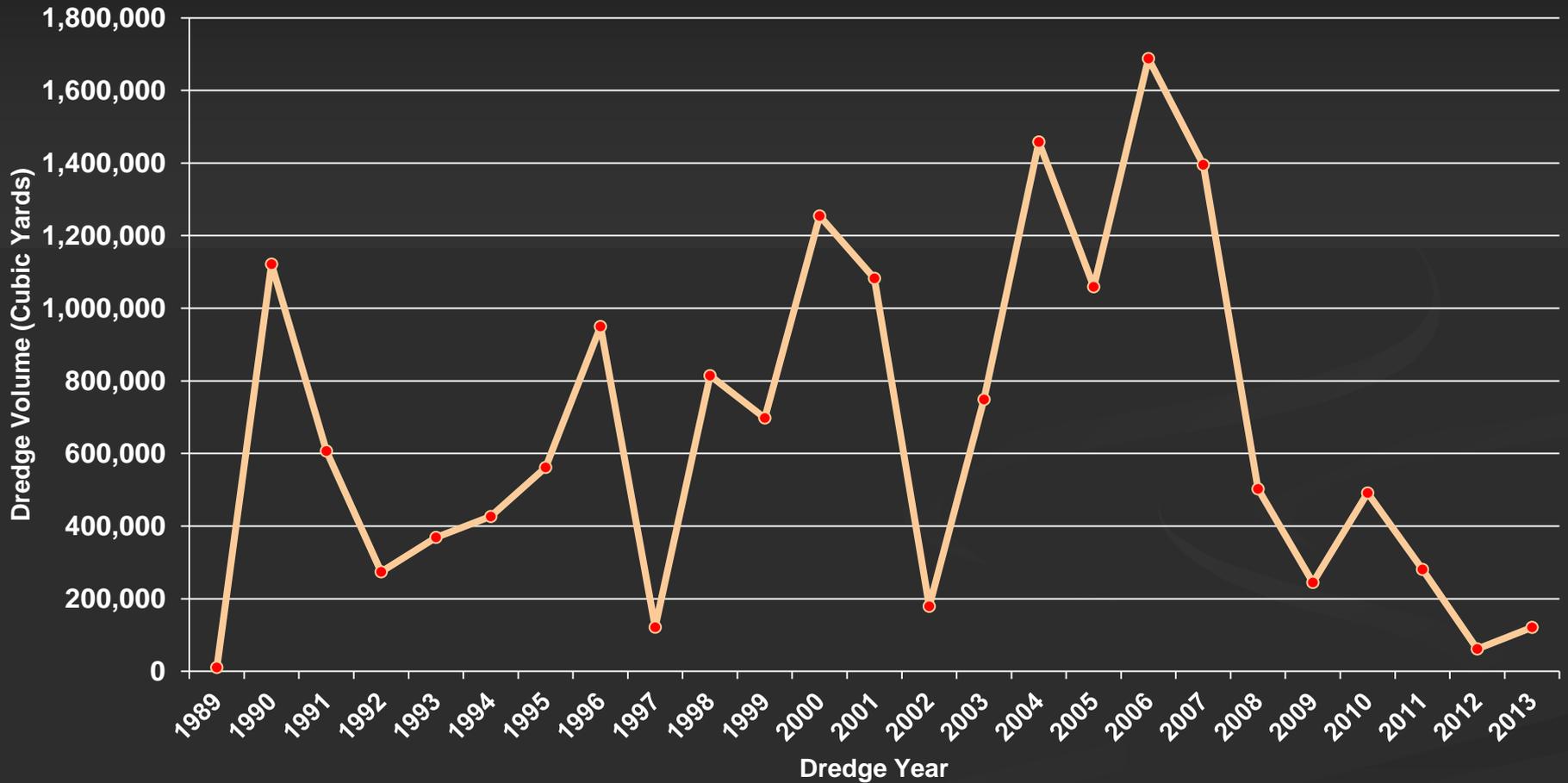


# DNR Management – Grays Harbor Annual Disposal Volumes

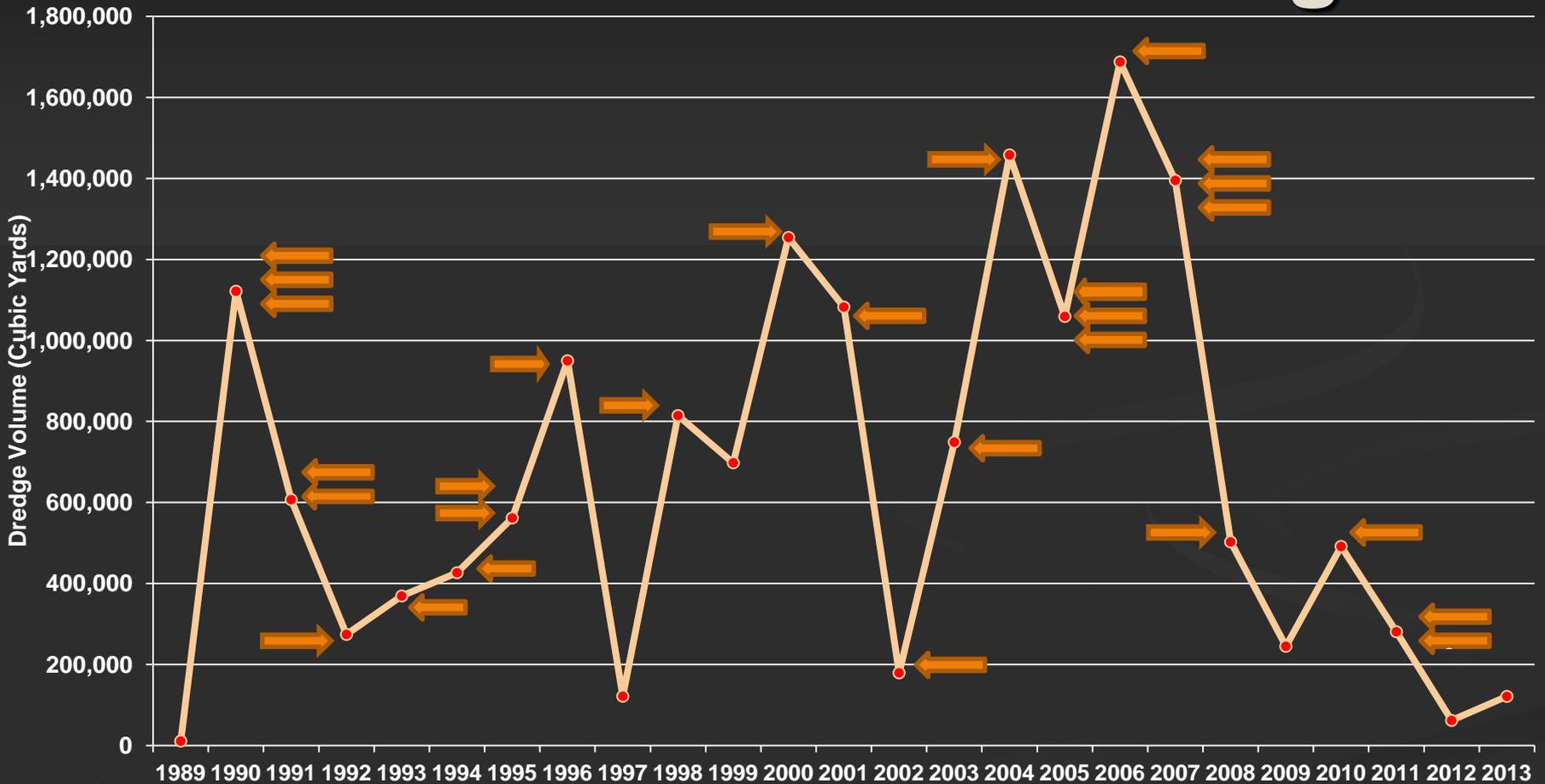
## Grays Harbor Annual Dredge Volumes



# DNR Management - Puget Sound Annual Disposal Volumes



# DNR Puget Sound Disposal Volumes With Monitoring



# *Future*

- Aquatic land dredged material disposal site account fund is weak
  - Less dredging, more beneficial use
  - Increased cost of monitoring and Shoreline Permits
- Keeping reserve of \$300,000 in account for emergency monitoring event if needed
- Long term fix - new paradigm will need new solutions



# QUESTIONS?

