



GLOBAL

The Tiger

The Salvor's Role in Pollution Mitigation

A dark teal background featuring a stylized world map. The map is rendered in a lighter shade of teal, showing the outlines of continents and major landmasses. The overall aesthetic is professional and modern.

Presented by:

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Prevention First

- The precept of prevention continues even when an unexpected emergency causes oil to enter the water
- In the face of pollution we...
 - Prevent continuing pollution by securing the source
 - Prevent the spread through containment
 - Prevent additional pollution during salvage operations through sound work practices

December 11, 2011



Vessel Condition



Response Objectives

- Contain and recover
- Raise vessel to eliminate long term pollution
- Minimize release during salvage operations
- Defuel vessel after raising

Basin Configuration



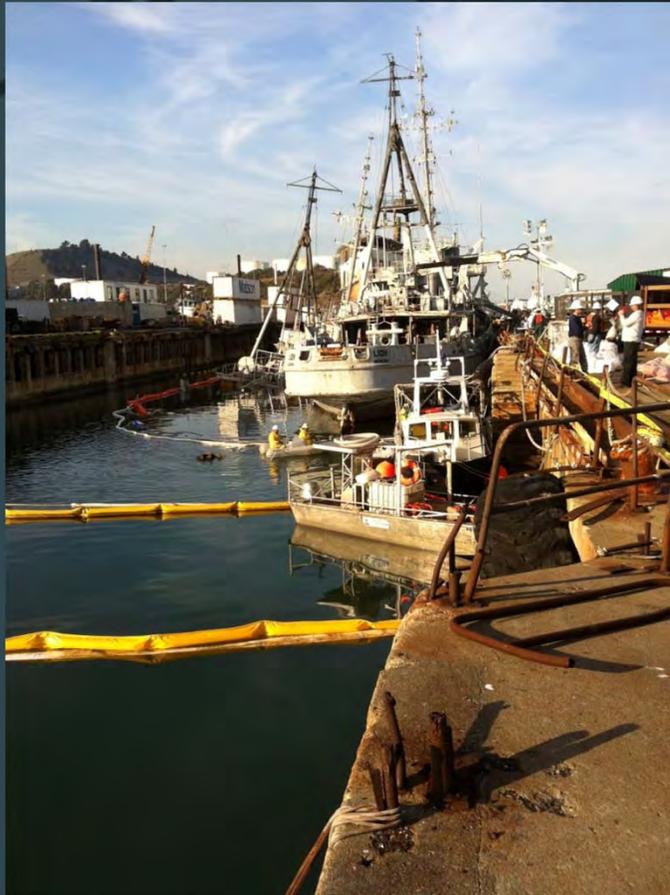
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Contain and Recover



Double Containment

Graving Dock



Tide Slides



Salvage Operations

- Right the vessel
- Construct WFP's (cofferdam?)
- Deploy 17 electric submersible pumps
- Install diverter system
- Dewater vessel
- Stabilize
- Defuel

Righting the vessel

- Moffat & Nichol
- Winches



What is a WFP?



Watson Freeboard Panels



Cofferdam Complete



Pump Installation



Pump Control House



Diverter System

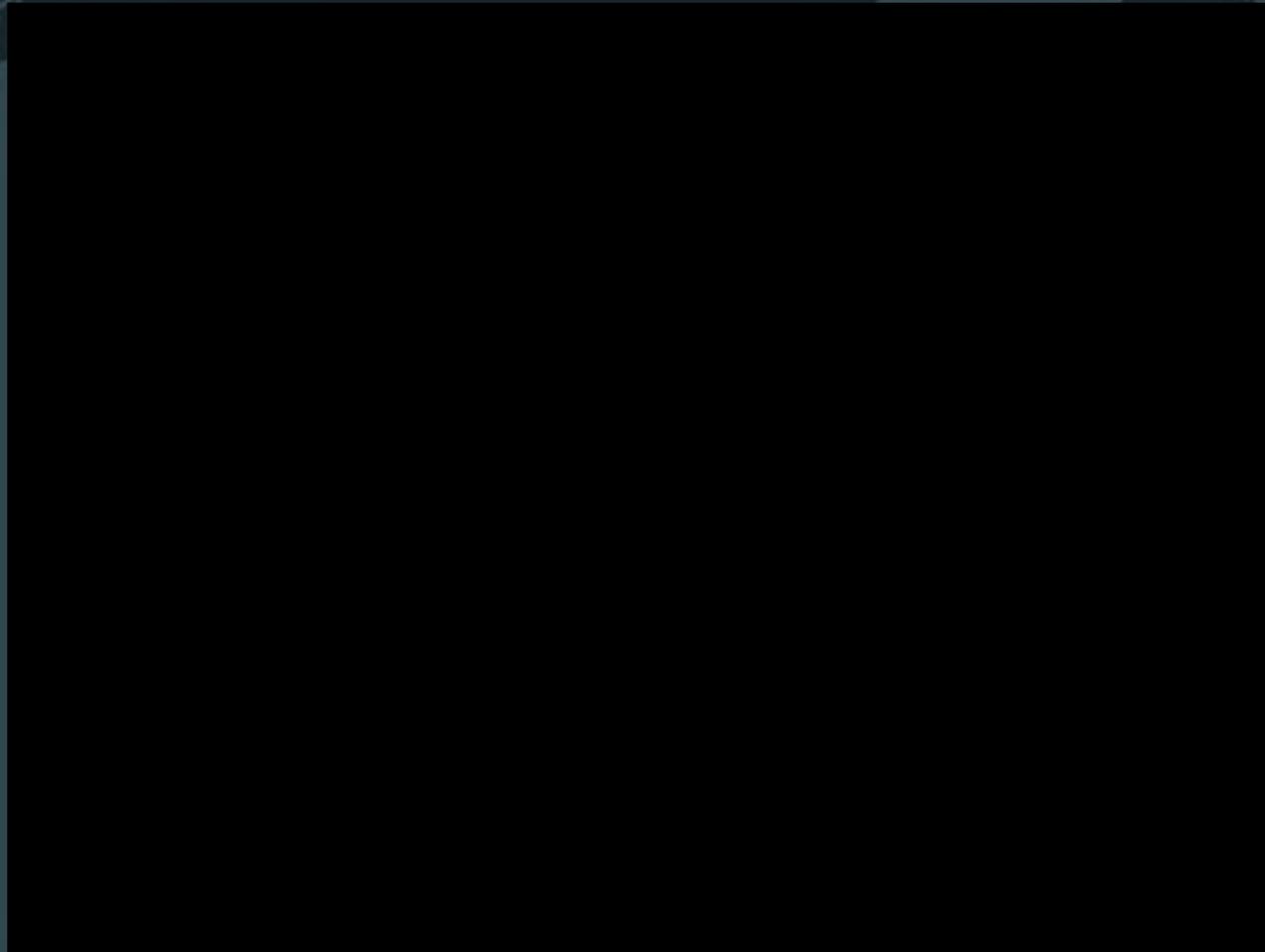
- Duplicate pumps in each compartment
- One pump directly overboard
- Other pump through diverter “Y”
- One side of “Y” overboard
- Other side of “Y” to frac tank
- If water discharging, it goes overboard
- If oil encountered, diverter switched and discharge goes to tank

Dewater Vessel





High Speed



Floating and Stable



Defueling Operation

- Obtained tank drawings from “The Perfect Storm” boat Tamarack
- Systematic defueling/dewatering in concert with naval architect
- 37,000 gallons of oil and oil water mixture removed from vessel