



Derelict Vessel Case Study: FV Tiffany & Cutter Alert 2021





Case Similarities

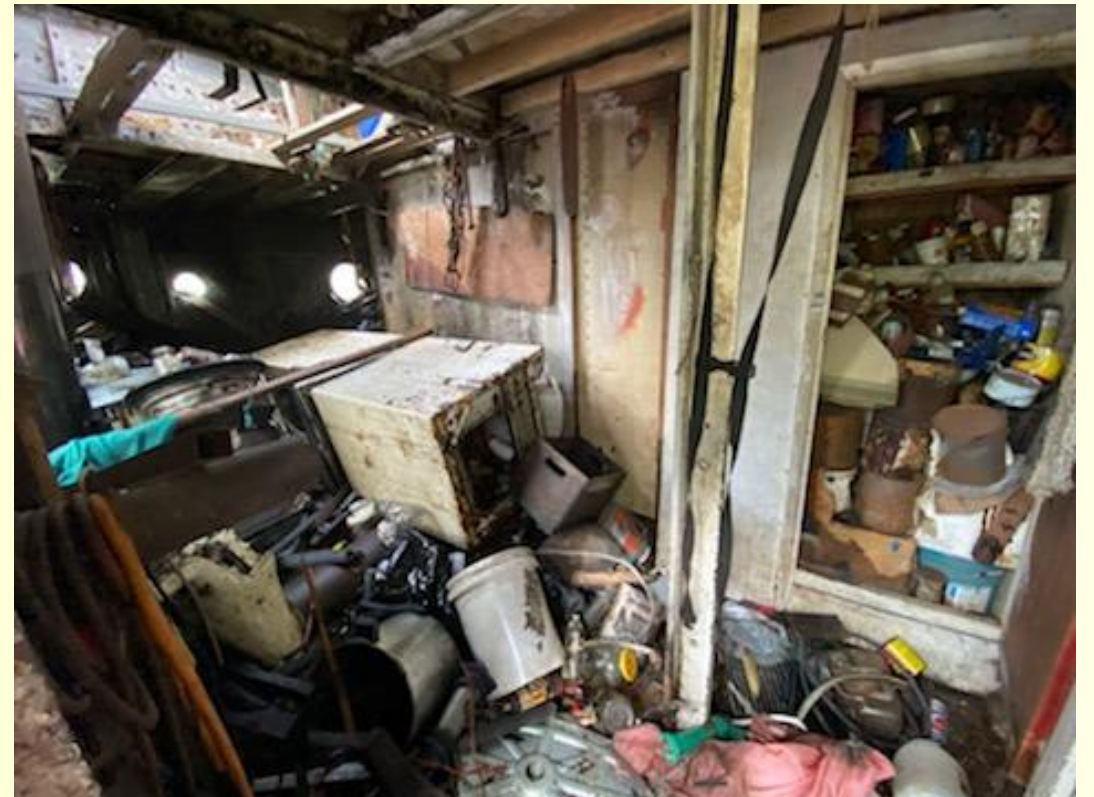
- Both Vessels were former Military Vessels
- Both were in derelict condition for years prior to sinking
- Both were visited by the USCG to remove pollution
- Both sank causing pollution cases
- Neither vessel has been removed and both remain in place
- Both vessels are estimated to cost >\$1 million to remove



Tiffany Cleanup



Vessel was packed with refrigerators, unidentified buckets, motors, and HHW. All had to be removed to access the vessel.



Once raised, nearly all items onboard were contaminated with oil.
Unknown Hazmat also encountered Photo Courtesy of Ballard Diving & Salvage.



Unknown Hazards and Asbestos





PCB's Asbestos and Heavy Metals Found

Paint Cadmium: 98.1 ppm Forward port side; paint, metal, black, poor condition
 Chromium: 898 ppm
 Lead: 35,300 ppm
 Mercury: 0.28 ppm

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PCB-01 (A1E0181-01)				Matrix: Paint Chip		Batch: 1050175		C-07
Aroclor 1016	ND	---	198	mg/kg	2000	05/07/21 11:10	EPA 8082A	
Aroclor 1221	ND	---	198	mg/kg	2000	05/07/21 11:10	EPA 8082A	
Aroclor 1232	ND	---	198	mg/kg	2000	05/07/21 11:10	EPA 8082A	
Aroclor 1242	ND	---	198	mg/kg	2000	05/07/21 11:10	EPA 8082A	
Aroclor 1248	ND	---	198	mg/kg	2000	05/07/21 11:10	EPA 8082A	
Aroclor 1254	1520	---	198	mg/kg	2000	05/07/21 11:10	EPA 8082A	
Aroclor 1260	ND	---	198	mg/kg	2000	05/07/21 11:10	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: %</i>	<i>Limits: 60-125 %</i>	<i>2000</i>	<i>05/07/21 11:10</i>	<i>EPA 8082A</i>	<i>S-01</i>

Agencies with primary ADV Authorities in Oregon:

- Department of State Lands:
 - Has general authority over submerged lands
 - May remove vessels deemed to be trespassing
 - Funding levels vary, generally has around \$35,000 per biennium but in the past have received emergency fund authorization, such as the multimillion dollar Goble project
- Oregon State Marine Board (OSMB):
 - Has ADV removal program primarily for *recreational* vessels. (exemptions exist)
 - \$150,000 per biennium
- Department of Environmental Quality:
 - Emergency Response: Authority to respond/prevent pollution to waters of the state.
 - Does not have authority to remove vessels themselves, only oil/hazmat.

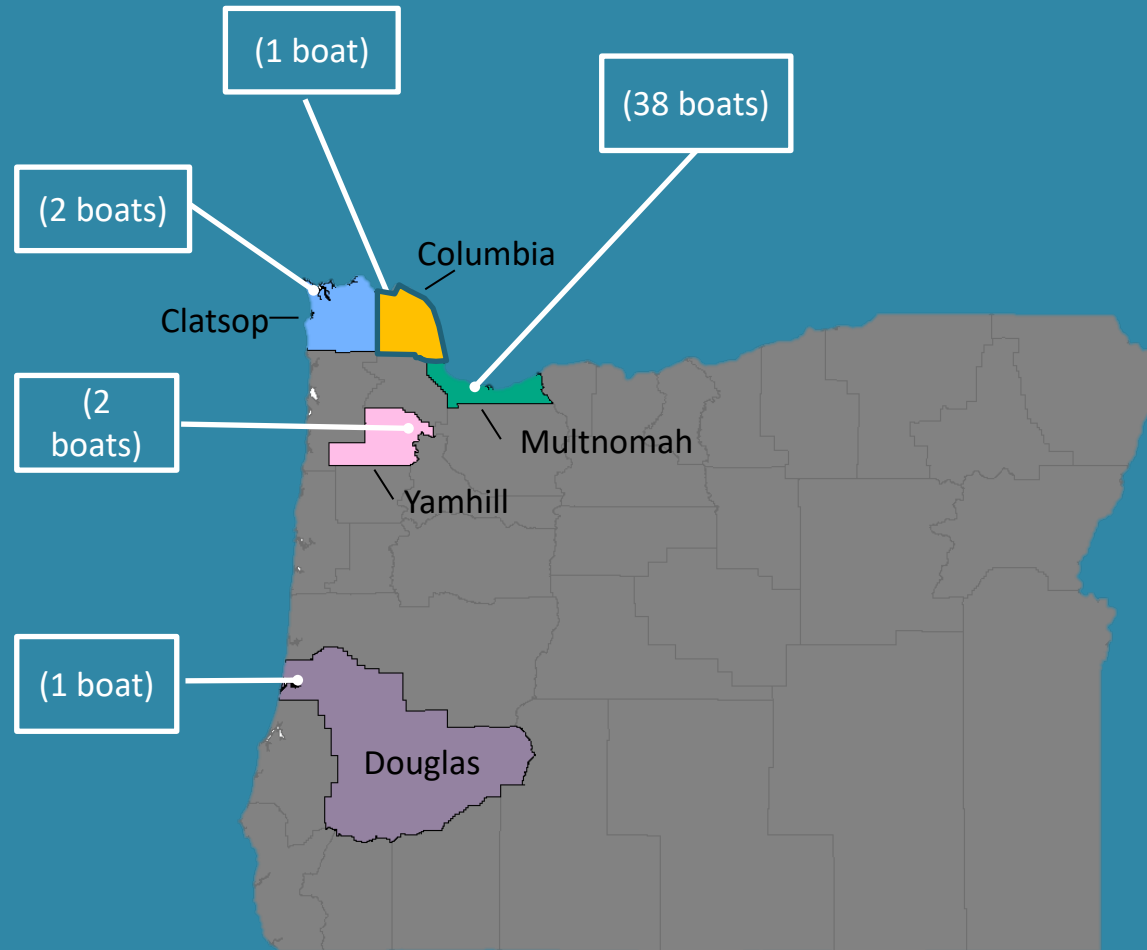
OSMB ADV Removals: 19/21 Biennium

The OSMB was financially involved in the removal and disposal of 44 boats.

All of the vessels were classified as recreational and generally fell between 20' and 30' in length. Most were fiberglass, and the tags had been expired for an average of 5 years.

Staff received reports of many other ADVs which the OSMB was not able to get involved with financially due to cost and prioritization of vessels.

The Board may deposit no more than \$150,000 into the Salvaged Vessel Subaccount per biennium

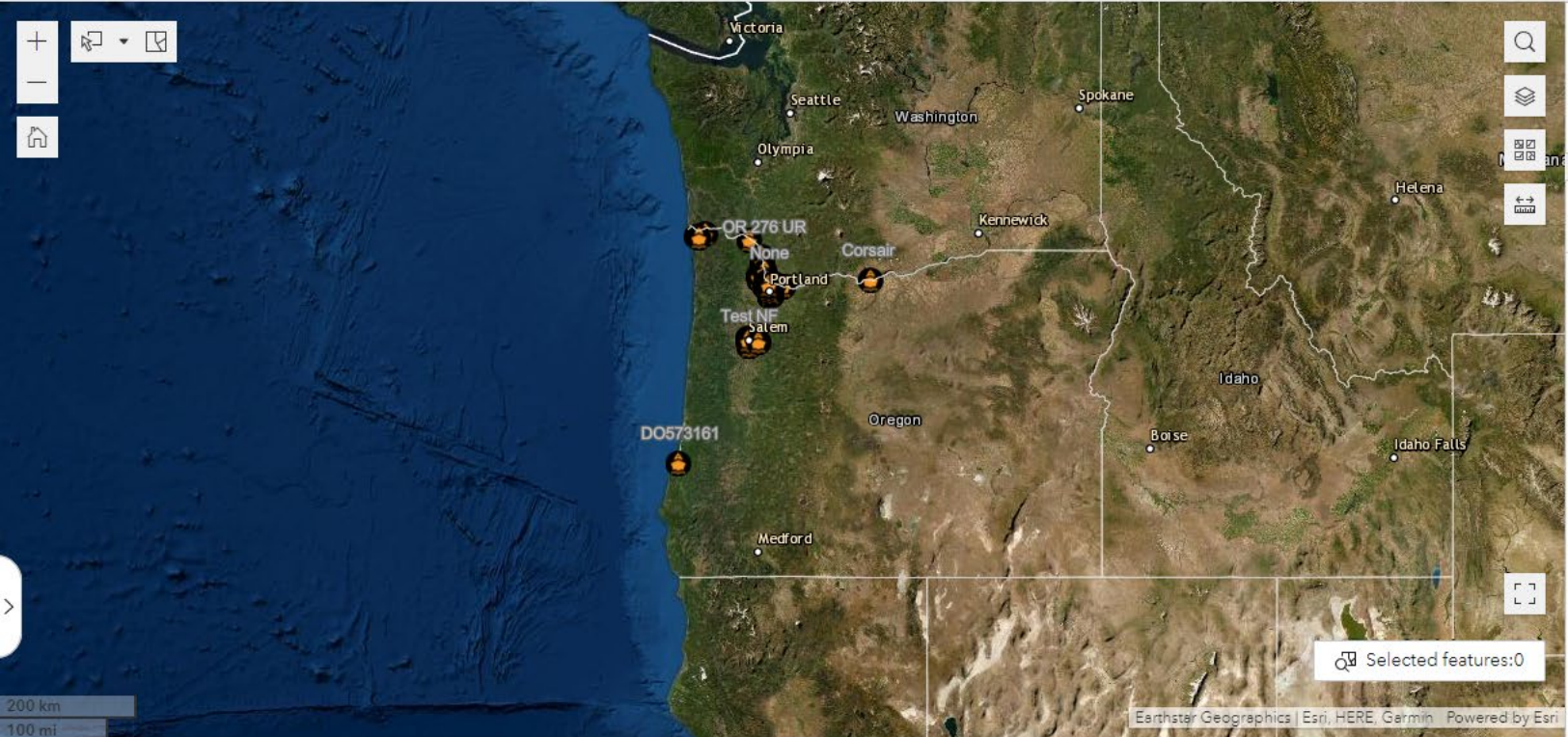


Model Program Components

1. Authorities
2. Prevention
3. Funding
4. Removal and Deconstruction
5. Public Outreach and Education



Photo: Michael Penn, Juneau Empire



Filter by Condition

Condition contains

Floating, Aground, Sunk, Capsized, Listing, Adrift, Secured, Unsecured

Editor

Edit feature >

Add feature >

Vessel History

Vessel Unique ID is

Filter Current Vessels by Type

Current ADVs and At-Risk Vessels

OBJECTID	Survey Date	Federal Docum...	Vessel Name	State Registratio...	Hull ID Number ...	Manufacturer	Type	Condition	Human
1	7/28/2017, 12:00 AM			DO573161	573161				
2	1/24/2019, 12:00 AM			None					
3	1/24/2019, 12:00 AM			YTM269					
4	11/21/2019, 12:00 PM			OR 848 UT					
5	1/24/2019, 12:00 AM			None					
6	1/24/2019, 12:00 AM			None					
7	1/24/2019, 12:00 AM			None					



Questions?

Scott Smith

Oregon Department of Environmental Quality

Scott.smith@deq.state.or.us