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Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference
(Seattle, Wash.)

Apr 5th, 2:45 PM - 3:00 PM

The heavy load: addressing creosote and large debris in the Salish Sea

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Robertson, Chris, "The heavy load: addressing creosote and large debris in the Salish Sea" (2018). *Salish Sea Ecosystem Conference*. 368.

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The Heavy Load: Addressing Creosote and Large Debris In the Salish Sea of Washington State

"This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement PC-01J22301 through the Washington Department of Fish and Wildlife. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency or the Washington Department of Fish and Wildlife, nor does mention of trade names or commercial products constitute endorsement or recommendation for use."

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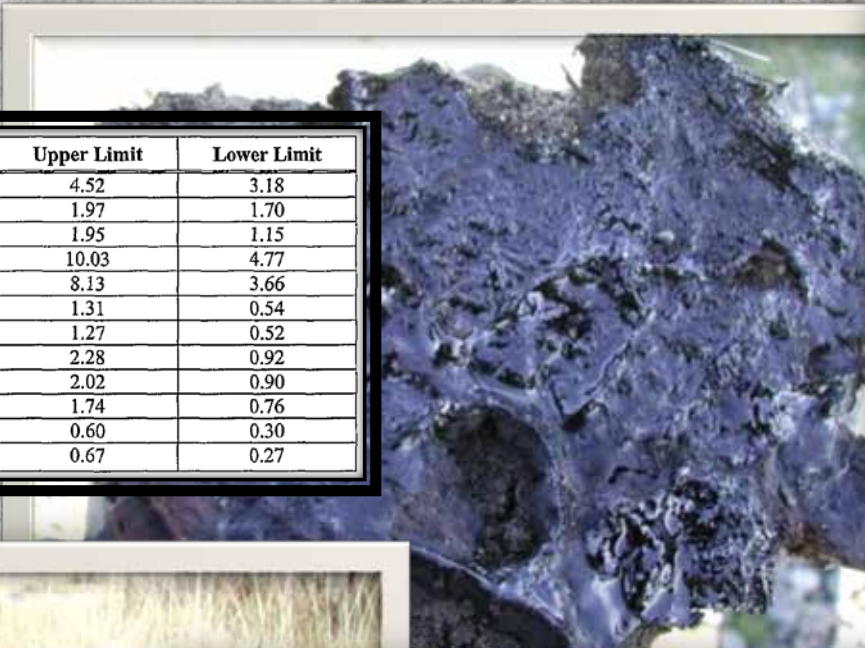


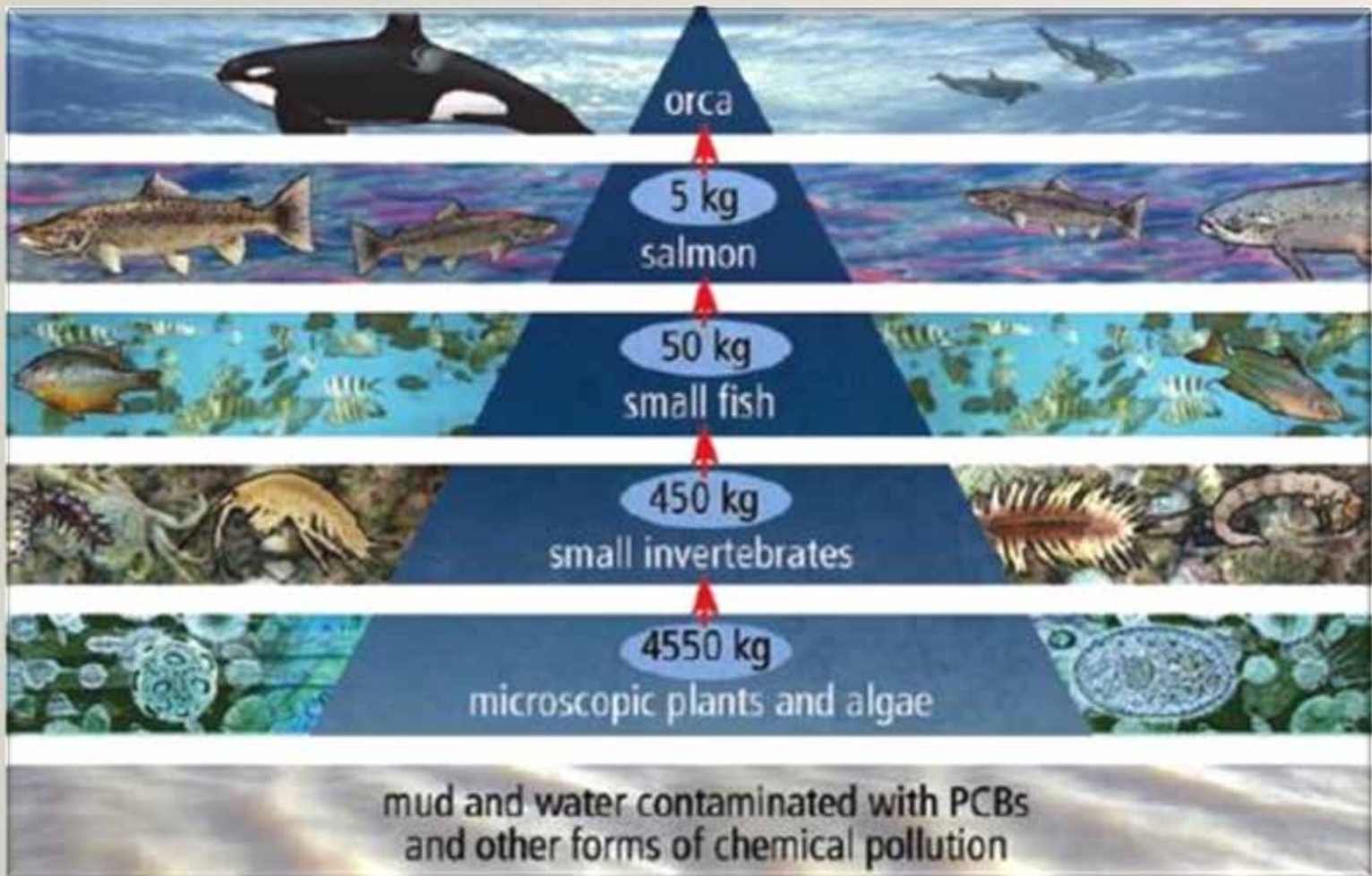
Photo provided by Louisa Tidewater in Tacoma, Wn.





Component	Averages	Upper Limit	Lower Limit
Anthracene	3.85	4.52	3.18
Dibenzopyrrole (Carbazole)	1.83	1.97	1.70
Cyclopentaphenanthrene	1.55	1.95	1.15
Fluoranthene	7.40	10.03	4.77
Pyrene	5.90	8.13	3.66
1H-Benzo(b)fluorene	0.92	1.31	0.54
1H-Benzo(a)fluorene	0.90	1.27	0.52
Benz(a)anthracene	1.60	2.28	0.92
Chrysene	1.46	2.02	0.90
Benzo fluoranthenes	1.25	1.74	0.76
Benzo(e)pyrene	0.45	0.60	0.30
Benzo(a)pyrene	0.47	0.67	0.27





TIDAL DATUM PLANES



UPLAND
USUALLY PRIVATE OWNERSHIP

EXTREME HIGH WATER
MEAN HIGHER HIGH WATER
MEAN HIGH WATER

TIDELAND
PUBLIC OR PRIVATE OWNERSHIP

MEAN TIDE LEVEL
MEAN LOW WATER
MEAN LOWER LOW WATER
EXTREME LOW WATER

TIDAL RANGE

BEDLAND
PUBLIC OWNERSHIP



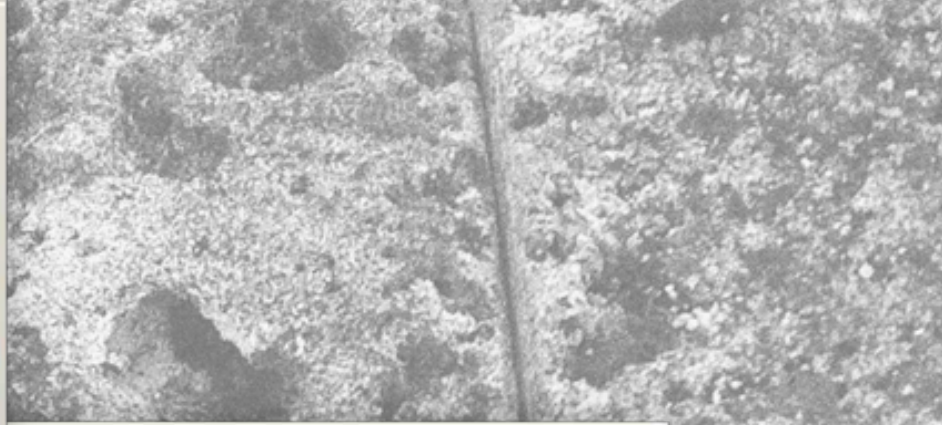


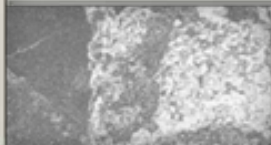


LAND









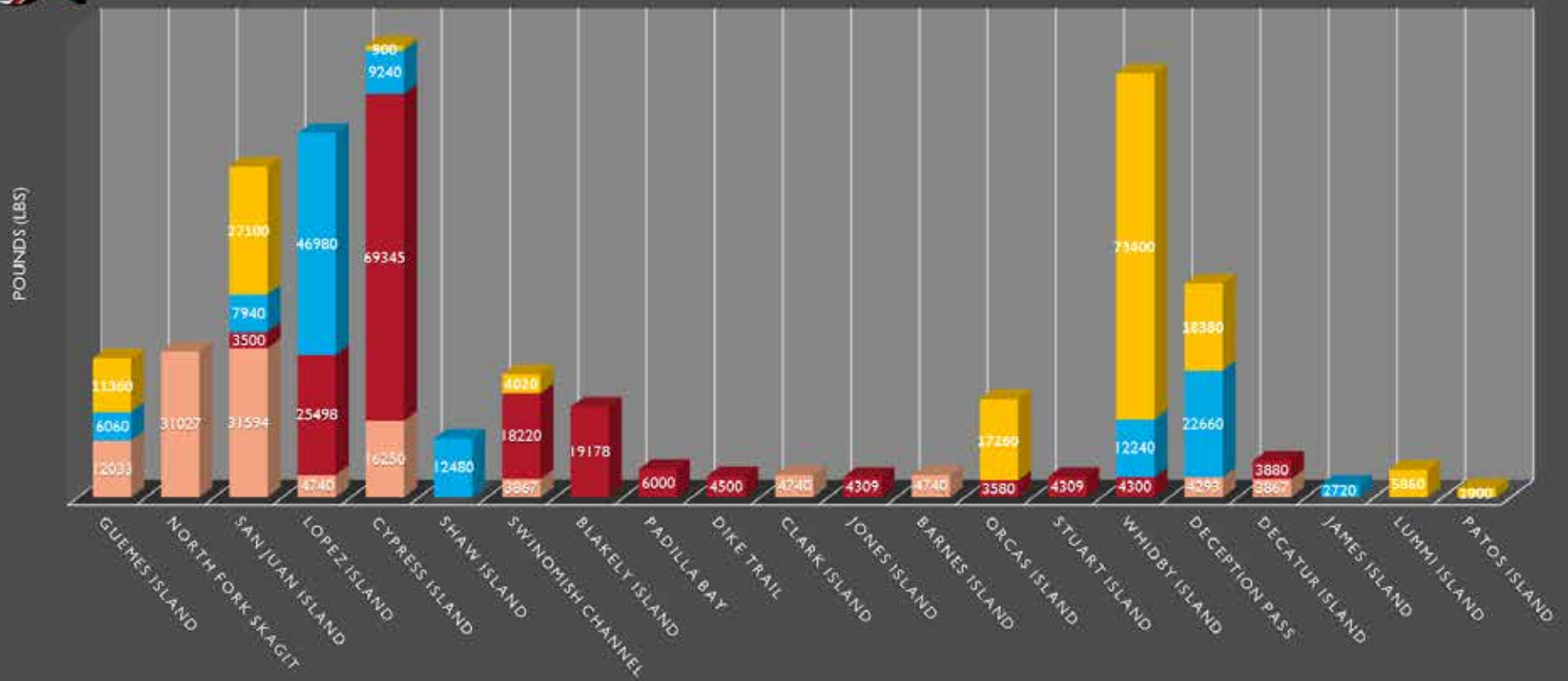




2014 THROUGH 2017 CREOSOTE CLEANUP

2014 TOTAL: ~117150 LBS
 2015 TOTAL: ~182080 LBS
 2016 TOTAL: ~120680 LBS
 2017 TOTAL: ~160180 LBS

2014 2015 2016 2017



AIR







LARGE DEBRIS



















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2017 results:

- 10 months
- 85 Sites
- 9 large debris responses

202 tons of hand hauled creosote and large debris
Or 13,466 gallons of creosote.



Removed Since 2003:



- ~26,628 tons (53,256,000 lbs.) of marine debris. = **70 Boeing 747 jets**
- ~ 25,562 pilings (avg. length 50') = **2.22 million gallons of creosote
OR 75 rail tank cars full.**
- ~31,600 sq/ft of overwater structures = **the area of 5 football fields!**



FUTURE PROJECTS

- ~16,000 pilings remaining
 - We are over half way there!
- **Mycoast Application Launch**
 - In partnership with the Northwest Straits Commission and the makers of Mycoast.com. The DNR is launching a state wide marine debris reporting app. In 2018.
- **Deepwater Derelict Net Removal**
 - Partnership with Department of Defense Innovative Readiness Training Program and Natural Resources Consultants.



We are not giving up
And we sure as hell
aren't getting tired.
-Billy Frank Jr.



PUGET SOUND
National Estuary Program







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