

The Tulalip Fishing Fleet—Certified Engine Repower Project

Tulalip Tribes of Washington



THE TULALIP TRIBES





TULALIP REPOWER PROJECT

○ Project Costs

Total Cost: \$769,333

EPA Funds Requested: \$576,525

Mandatory Match: 25% , \$192,333

Background

- 1/3 of the population is concentrated around Tulalip Bay.
- 3,216 people live within 3 miles of the Tulalip Bay airshed.
- Tulalip elementary school, the Boys & Girls Club, a tribal college and the Health Clinic are located within a quarter of a mile of the marina.
- 30.2 % population increase.
- 30% under the age of 18.
- Chronic diseases prevalent.

TULALIP BAY



Tulalip Risk Factors

- Child asthma rates 18-20%; Infants have a higher rate of emergency room visits.
- Exposure along the I-5 corridor in Snohomish County.
- Lifetime cancer risk from diesel soot exceeded risk of all other air toxics tracked by EPA (WA Clean Air Task Force, 2005).
- Average lifetime diesel soot cancer risk is 252 times greater than EPA's acceptable cancer level.
- 78% diesel exhaust, 40% marine emissions in Puget Sound region (Puget Sound Air Toxics Evaluation, 2003).

Targeting the Fishing Fleet

- 2010 Emissions Inventory for the greater Tulalip Bay airshed.
- 12,500 activity hours/year.
- 8,697 one-way trips/year.
- Tulalip Elementary school and Boys & Girls Club.
- Off-road equipment/public transportation.



Tulalip Fishing Fleet



- 10 tribal fishermen participated.
- Ownership is a combination of the Tribe directly (1 boat) and individual tribal members (9 boats).
- Vessel size ranged from 26 to 44 feet in length.
- 7 out of 10 engines manufactured prior to 1990.
- 12,500 activity hours per year (idling and traveling) and consume 20,410 gallons of diesel fuel per year.



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Lessons Learned/Successes/Outcomes

- Vessel scheduling and fishing seasons.
- Collaborative relationship between the Tribe and EPA.
- Removed 12 high-emission diesel engines.
- 5.1 tons of diesel removed per year.
- New engines meet EPA Tier 2 Standards.
- Reduction in overall PM exposure and TSP levels
- Engine maintenance plans.



TULALIP REPOWER PROJECT

Looking to the future

- Phase II of the Tulalip Repower project.
- Revising Emissions Inventory
- Promoting diesel reduction strategies with other tribal communities.



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MORE INFORMATION:

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<http://www.epa.gov/cleandiesel/index.htm>

<http://www.epa.gov/diesel/grantfund.htm>

DERA Hotline: 1.877.623.2322

Submit questions via email to cleandiesel@epa.gov



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KIMBERLY KAY

1985 VOLVO PENTA VOLVO 41B



Kimberly Kay





TULALIP REPOWER PROJECT

NICKI MARIE

1978 VOLVO PENTA AD41A



Nicki Marie





TULALIP REPOWER PROJECT

Tara Rae

1980 Mitsubishi 6-D-16





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BLTZ

1987 DETROIT 6V71

