

EVOS ANNUAL PROJECT REPORT

Project Number: 040740

Project Title: **Lingering Oil: Contaminant Inputs to PWS and CYP1A induction in Fish**
NOAA-Auke Bay Laboratory

PI Names: Stanley Rice, Jeff Short, and Mandy Lindeberg

Time Period Covered by Report: October 1, 2004 - September 30, 2005

Report Prepared by: Mandy Lindeberg

Date of Report: September 1, 2005

1. **Work Performed:**

Despite this project's mid term start in 2004, all analyses have been completed as scheduled. Field sampling was finalized at the end of September 2005, and approximately 100 SPMDs were processed and their dialysates partitioned and analyzed for total PAH and POPs. An intensive wet lab experiment was completed where aliquots of the concentrated extracts from the SPMDs were injected into cultured rainbow trout and the induction of cytochrome P450A1A (CYP1A) was measured. In addition, over 150 crescent gunnels collected from Prince William Sound were also analyzed for induction of CYP1A. All chemical analyses are complete at this time and we are currently conducting statistical summaries of these results for reports and manuscripts.

2. **Future Work:**

Our current goals are to finish our statistical analyses and complete a final report to the Trustees. The final report will summarize a huge data set and it is anticipated that the October 1, 2005 deadline will not be met. Our target for completion will be in January 2006 before the Trustees Annual Workshop.

3. **Coordination/Collaboration:**

Coordination between linked projects and agencies has been carried out and will continue in the future.

4. **Community Involvement/TEK & Resource Management Applications:**

Not applicable.

5. **Information Transfer:**

The 2005 Annual Trustee Workshop was attended by all principal investigators in January and will be repeated for the 2006 Annual Workshop.

The SETAC North America 26th Annual Meeting (11/13/2005 thru 11/17/2005) will be attended by all the principal investigators. The following lists two abstracts submitted to SETAC in which we will present data from this project:

1. *Induction of CYP1A in rainbow trout from bioavailable Exxon Valdez oil: fifteen years and still counting.*
 2. *Lingering EVOS remains the dominant source of CYP1A inducers in PWS.*
6. **Budget:** No new adjustments need to be made to the FY04 budget.