

July 27, 2007

Michael Baffrey, Executive Director  
Exxon Valdez Oil Spill Trustee Council  
441 W. 5<sup>th</sup> Ave., Suite 500  
Anchorage, AK 99501

Re: Project 070290/Exxon Valdez Trustee Progress Report

Data are added to the Trustee Hydrocarbon Database as they are received from the following: During fiscal year FY07 we have added the following data:

1. Project 060763 (Lingering Oil) sample data for all 200 samples, and analytical data which has been quality controlled to date: 100 for samples collected in summer of 2006
2. Project 070763: sample data for 50 samples collected in April 2007 entered and we are in the process of entering data sample data for tar balls photographs collected in July, 2007
3. Project 070801's sample data in the process of being entered (samples arrived this month).
4. Responded to 4 FOIAs in FY07 and are preparing and additional 3 FOIA responses currently
5. The public ACCESS database, EVTHD has been updated to include these samples and the updated database will be placed on our website this calendar year (The updated version is available on a CD-ROM).
6. The user's manual is in the process of being updated and will be completely updated by October 1, 2007.

I have not been able to locate the 2008 NIST (National Institute of Standards and Technology Conference - [http://www.nist.gov/public\\_affairs/confpage/060213a.htm](http://www.nist.gov/public_affairs/confpage/060213a.htm)) meeting location.

If you need more information, please let me know.

Thank you,

Bonita Nelson  
Auke Bay Laboratories  
17109 Pt Lena Loop  
Juneau, AK 99801  
Bonita.nelson@noaa.gov

## PROPOSAL SIGNATURE FORM

**THIS FORM MUST BE SIGNED BY THE PROPOSED PRINCIPAL INVESTIGATOR AND SUBMITTED ALONG WITH THE PROPOSAL.** If the proposal has more than one investigator, this form must be signed by at least one of the investigators, and that investigator will ensure that Trustee Council requirements are followed. Proposals will not be reviewed until this signed form is received by the Trustee Council Office.

By submission of this proposal, I agree to abide by the Trustee Council's data policy (*Trustee Council Data Policy\**, adopted July 9, 2002) and reporting requirements (*Procedures for the Preparation and Distribution of Reports\*\**, adopted June 27, 2007).

**PROJECT TITLE:**           **The Exxon Valdez Trustee Hydrocarbon Database and Interpretation Service**

Printed Name of PI:         Bonita Nelson

Signature of PI:             \_\_\_\_\_ Date \_\_\_\_\_

Printed Name of co-PI:     Jeffrey W. Short

Signature of co-PI:         \_\_\_\_\_ Date \_\_\_\_\_

Printed Name of co-PI:     \_\_\_\_\_

Signature of co-PI:         \_\_\_\_\_ Date \_\_\_\_\_

\* Available at [www.evostc.state.ak.us/Policies/data.htm](http://www.evostc.state.ak.us/Policies/data.htm)

\*\* Available at [www.evostc.state.ak.us/Policies/guidelines.htm](http://www.evostc.state.ak.us/Policies/guidelines.htm)

**Trustee Council Use Only**

**Project No:** \_\_\_\_\_

**Date Received:** \_\_\_\_\_

**PROPOSAL SUMMARY PAGE  
(To be filled in by proposer)**

**Project Title:** The Exxon Valdez Trustee Hydrocarbon Database & Interpretation Service

**Project Period:** October 1, 2007 – September 30, 2008

**Proposer(s):** Bonita Nelson and Jeff Short NOAA/NMFS Auke Bay Laboratories  
Bonita.Nelson@noaa.gov , [Jeff.Short@noaa.gov](mailto:Jeff.Short@noaa.gov)

**Study Location:** The project resides at the Ted Stevens Research Institute in Juneau, AK

**Abstract:** This project is an on-going service project providing data and sample archiving services for all samples collected for hydrocarbon analysis in support of *Exxon Valdez* Oil Spill Trustee Council projects. These data represent samples collected since the oil spill in 1989 to the present and include environmental and laboratory Response (National Resource Damage Assessment–NRDA), Restoration and recovery projects data. Additionally, we provide interpretive services for the hydrocarbon analysis, provide public releases of the database which includes several FOIA requests annually and maintain the hydrocarbon sample archives.

**Funding:** EVOS Funding Requested: FY 08 \$11.1

(must include 9%GA)

TOTAL: \$11.1

Non-EVOS Funds to be Used: FY 08 \$13.0

TOTAL: 24.1K

**Date:** July 20, 2007

(NOT TO EXCEED ONE PAGE)

# PROJECT PLAN

## I. NEED FOR THE PROJECT

### A. Statement of Problem

The Exxon Valdez Trustee Hydrocarbon Database is the archive for all of the sample collection and analytical data collected for hydrocarbon analysis for Trustee funded projects from 1989 to the present. This database provides investigators and other interested parties with the opportunity to retrieve sample and analysis information which has been quality controlled and archived under a chain of custody protocol. This service project also provides for the storage and disposal of archival environmental samples, interpretation of hydrocarbon results and an ACCESS database containing all of the analyzed data. Although the number of Trustee funded projects requiring hydrocarbon analysis have diminished over time, the need for the archived data as well as analyses concerning lingering oil distribution is of great current interest. This project is designed to maintain the archival database and its associated storage and interpretative tasks as well as continue to provide access to the data.

### B. Relevance to 1994 Restoration Plan Goals and Scientific Priorities

Archiving of the Trustee hydrocarbon sample data ensures that these data are available to principal investigators, government agencies, and other interested public on a timely basis. The database allows direct comparison of restoration and NRDA data, and contains an inventory of hydrocarbon samples and information about their collection, storage and analysis. The continued use of the methods for hydrocarbon data evaluation and interpretation developed for the *Exxon Valdez* NRDA samples will insure direct comparability of future with previous samples. This will substantially increase the probability that temporal trends in these data will be detected when actually present. Interested parties will be able to get assistance with chemical interpretation of hydrocarbon results from their project or other projects that relate to their project when needed. This is not a hypothesis driven project, it is aimed at maintaining hydrocarbon pollution data from the day after the spill until the present. The results we will achieve is to continue to adding information from shoreline surveys, providing interpretation services and information dissemination when necessary, and maintain the historic database and sample collection. The utility of this project is that it maintains the historical record of hydrocarbon assessment for examined resources since the beginning of the spill.

## II. PROJECT DESIGN

### A. Objectives

1. Continue maintenance of the Trustee hydrocarbon database by updating the database with new information and continue the sample archiving procedures developed under NRDA and Restoration.
2. Continue interpretation of hydrocarbon data, including new data produced for principal investigators and resources managers and for syntheses products as needed.

3. Provide public release of the data via CD-Rom and on the internet as well as information for FOIA requests.

## **B. Procedural and Scientific Methods**

1. Data associated with hydrocarbon samples are added to the existing Trustee hydrocarbon ACCESS database. The samples and data currently reside at the Auke Bay Laboratories' Ted Stevens Marine Research Institute in Juneau. Incoming samples are inventoried and stored in laboratory freezers, and sample collection information is entered into the database. Samples are released for hydrocarbon analysis after ABL receives a written request from the responsible project leader. Hydrocarbon data, reported by the analytical laboratory, are matched to the sample collection information and all the data are checked for errors and electronic copies are sent to principal investigators or other requesters. Environmental samples that are not used in analyses are stored in a locked freezer.
2. Requests for data included FOIA are transmitted electronically .
3. The database is updated annually and is available on a CD-ROM or at the agency website: [www.afsc.noaa.gov/ABL](http://www.afsc.noaa.gov/ABL).

A An updated version of the public release of the database will be developed in Visual Basic software using *Exxon Valdez* Oil Spill of 1989: State/Federal Trustee Council Hydrocarbon Database 1989-1995 (EVTHD) as a template and will include data collected from Trustee funded projects including sampling and analytical quality control procedures .The product is updated annually. This is a continuation of project 01290 and previously funded under TS#1, 93090, 94290, 95290, 96290 , 97290, 98290, 99290 , 00290, 01290, 20209 and 03290.

## **C. Data Analysis and Statistical Methods**

All data collected for hydrocarbon analysis from 1989 through the present are stored in PWSOIL (the original Trustee Hydrocarbon Database). All analyzed hydrocarbon data from Trustee funded projects are presented in EVTHD (Exxon Valdez Trustee Hydrocarbon Database) public release which is updated annually.

## **D. Description of Study Area**

This project will take place at the Ted Stevens Marine Research Institute and at the Auke Bay Marine Station both of the Auke Bay Laboratories in Juneau, AK.

## **E. Coordination and Collaboration with Other Efforts**

This project complements any project that is funded by the Trustee council that collects hydrocarbon analyses data specifically 070801 and 050763.

### **III. SCHEDULE**

#### **A. Project Milestones**

**Objective 1-3 .** Sample collection data for environmental samples are entered when the sample arrives at our facility. Analytical data is entered when it has completed quality control analysis. At the end of each fiscal year, an updated ACCESS database is available for all data collected and analyzed from 1989 until the present. Requests for data are met when received.

#### **B. Measurable Project Tasks**

Specify, by each quarter of each fiscal year, when critical project tasks (for example, sample collection, data analysis, manuscript submittal, etc.) will be completed. This information will be the basis for the quarterly project progress reports that are submitted to the Trustee Council Office. Please format your schedule like the following example.

##### **FY 08, 1st quarter (October 1, 2007-December 31, 2007)**

*October: Data from summer 2007 samples entered. Responding to FOIA request from calendar year 2007.*

##### **FY 08, 2nd quarter (January 1, 2008-March 31, 2008)**

*(dates not yet known) Annual Marine Science Symposium*

##### **FY 08, 3rd quarter (April 1, 2008-June 30, 2008)**

Analytical data entered from calendar year 2007 sample collection installment one.

##### **FY 08, 4th quarter (July 1, 2008-September 30, 2008)**

*Analytical data entered from calendar year 2007 and sample data from calendar year 2008 entered. Updated database by October 1, 2008, annual report.*

### **IV. RESPONSIVENESS TO KEY TRUSTEE COUNCIL STRATEGIES**

#### **A. Community Involvement and Traditional Ecological Knowledge (TEK)**

This service project does not involve TEK since it is a data archiving service for analytical hydrocarbon data.

#### **B. Resource Management Applications**

The data in this database is readily available to anyone who requests it and also will be of values to the Prince William Sound Regional Citizens' Advisory Council as well as the Trustee Council's investigation into the lingering oil in Prince William Sound and the Gulf of Alaska. The petroleum weathering model developed under this project in the past

can still be used to identify hydrocarbons generated from spill versus those from other background sources.

## **V. PUBLICATIONS AND REPORTS**

An annual report accompanied by a CD\_ROM of the database and an updated user's manual is available on September 30, 2008.

**BUDGET JUSTIFICATION – FY 2008 = \$11.1K**

**Personnel: .0K :**

In-kind contribution = 13K

**Travel: 2.7K**

Nelson will travel to the Marine Sciences Symposium

Chemist Lawrence Schaufler will travel to the NIST standards meeting

**Contractual: 7.K**

Contract labor will be used to assist in clerical and physical labor associated with sample storage and data verification.

**Commodities: .5K** Computer media supplies

**Trustee Agency G&A: \$.9K**



**2008 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET**

October 1, 2007 - September 30, 2008

<b>Budget Category:</b>	<b>Authorized FY 2007</b>	<b>Proposed FY 2008</b>				
Personnel	\$7.5	\$0.0				
Travel	\$2.5	\$2.7				
Contractual	\$14.0	\$7.0				
Commodities	\$4.0	\$0.5				
Equipment		\$0.0	LONG RANGE FUNDING REQUIREMENTS			
Subtotal	\$28.0	\$10.2				
General Administration	\$2.1	\$0.9				
Project Total	\$30.1	\$11.1				
Full-time Equivalentents (FTE)	0.1	0.1				
Dollar amounts are shown in thousands of dollars.						
Other Resources		\$13.0				

Comments:

Added project #, Title and Agency on the Contr/Comm section of spreadsheet; re-linked proposed total to spreadsheet totals and the \$2.5 hard entered was revised to the \$2.7, as detailed below and on the justification for travel; Fixed the total on the Justification to \$11.1 from \$11.2 and the Proposal Summary figures from FY 08 amt of \$10.9 w/Total of \$23 to FY 08 amt of \$11.1 w/Total of \$24.1; Inserted "in-kind" amount figure at top under "Other Resources."

The Auke Bay Laboratories will provide .5 month of Jeff Short's salary and 1 month of Bonita Nelson's salary for a total of 12K as well as storage for all samples and paper work in support of the environmental samples and related materials (1K) for a total of 13K.

**FY08**

Rev. 8/1

Project Number: 080290  
 Project Title: The Hydrocarbon Database  
 Agency: NOAA

**2008 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET**

October 1, 2007 - September 30, 2008

<b>Personnel Costs:</b>		GS/Range/ Step	Months Budgeted	Monthly Costs	Overtime	
Name	Position Description					
		Subtotal	0.0	0.0	0.0	
						<b>Personnel Total</b>
<b>Travel Costs:</b>		Ticket Price	Round Trips	Total Days	Daily Per Diem	
Description						
Trip to Annual Meeting/Workshop		0.5	1	3	0.2	
Quality Control Workshop for Analytical Chemistry NIST		1.0	1	3	0.2	
						<b>Travel Total</b>

**FY08**

Rev. 8/1

Project Number: 08020  
 Project Title: The Hydrocarbon Database  
 Agency: NOAA

**2008 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET**

October 1, 2007 - September 30, 2008

<b>Contractual Costs:</b>	
Description	
Data Verification, freezer maintenace, disposal of samples	
When a non-trustee organization is used, the form 4A is required.	<b>Contractual Total</b>
<b>Commodities Costs:</b>	
Description	
Computer equipment supplies	
	<b>Commodities Total</b>

**FY08**

Rev. 8/1

Project Number: 080290  
 Project Title: The Hydrocarbon Database  
 Agency: NOAA

**2008 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET**

October 1, 2007 - September 30, 2008

<b>New Equipment Purchases:</b>		Number of Units	Unit Price	
Description				
Those purchases associated with replacement equipment should be indicated by placement of an R.		<b>New Equipment Total</b>		
<b>Existing Equipment Usage:</b>		Number of Units		
Description				
Freezers, Computers		1 1		

**FY08**

Project Number: 080290  
 Project Title: The Hydrocarbon Database  
 Agency: NOAA

Rev. 8/1