

EVOSTC ANNUAL PROJECT REPORT

Recipients of funds from the *Exxon Valdez* Oil Spill Trustee Council must submit an annual project report in the following format by **Sept. 1** of each fiscal year for which project funding is received (with the exception of the final funding year in which a final report must be submitted). Please help ensure that continued support for your project will not be delayed by submitting your report by **Sept. 1**. Timely receipt of your report allows more time for court notice and transfer, report review and timely release of the following year's funds.

Satisfactory review of the annual report is necessary for continuation of multi-year projects. Failure to submit an annual report by **Sept. 1** of each year, or unsatisfactory review of an annual report, will result in withholding of additional project funds and may result in cancellation of the project or denial of funding for future projects. **PLEASE NOTE:** Significant changes in a project's objectives, methods, schedule, or budget require submittal of a new proposal that will be subject to the standard process of proposal submittal, technical review, and Trustee Council approval.

Project Number: 040712

Project Title: Research for nutrient-based resource management in watersheds and estuaries

PI Names: Thomas Kline and Carol Ann Woody

Time period covered: FY06 Date of Report: Sept. 29, 2006

Report prepared by: Dr. Tom Kline

Project website (if applicable):

Work Performed: Summarize work performed during the reporting period, including any results available to date and their relationship to the original project objectives. Explain deviations from the original project objectives, procedural or statistical methods, study area or schedule. Also describe any known problems or unusual developments, and whether and how they have been or can be overcome. Include any other significant information pertinent to the project.

The field work is completed.

Lab processing and stable isotope analyses of samples are in progress.

A manuscript, which was in draft state at the previous annual report, is near publication. Galley proof is in hand.

The only significant delay in the analysis has been with the sulfur stable isotope analyses. Sulfur isotope analysis of small samples is new and the lab we are working with is one of few providing this service. Samples are small because sulfur is a much smaller component of organic material compared to carbon and nitrogen. For example, the percent sulfur in the most recent batch of our periphyton samples ranged from 0.03 to 0.15 %. Carbon is about 40 to 50 % whereas nitrogen is 10 to 20%. The lab installed a new elemental analyzer this year. The elemental analyzer is used for the first stage in the stable isotope analysis. The most recent batch of samples of about 20mg each, which is about the maximum tolerable size, were run using it. The data from this batch is replacing eight sulfur isotope data points in manuscript. Future sulfur isotope analyses are expected to be done more expediently than in the past.

Future Work: Summarize work to be performed during the upcoming year, if different from the original proposal. Describe any proposed changes in objectives, procedural or statistical methods, study area or schedule. *NOTE: Significant changes in a project's objectives, methods, schedule or budget*

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Completion of lab and analytical work.

Participation at the 2007 Alaska Marine Science Symposium

Data analysis and generation of final report.

Publication of the galley manuscript.

An abstract has been submitted for presentation at the 2007 Aquatic Sciences Meeting session on Quantifying Ecological Subsidy and Resource Sheds. The title is: QUANTIFICATION OF ANADROMOUS SALMON DERIVED ECOLOGICAL SUBSIDIES USING STABLE ISOTOPES OF NITROGEN, SULFUR, AND CARBON IN COASTAL ALASKAN WATERSHEDS

Coordination/Collaboration: Describe efforts undertaken during the reporting period to achieve the coordination and collaboration provisions of the proposal, if applicable.

Field work and manuscript preparation involved collaboration with co-authors listed in manuscript. Isotope analysis involved coordination with the outside lab, this is acknowledged in manuscript.

Community Involvement/TEK & Resource Management Applications: Describe efforts undertaken during the reporting period to achieve the community involvement/TEK and resource management application provisions of the proposal, if applicable.

N/A

Information Transfer: List (a) publications produced during the reporting period, (b) conference and workshop presentations and attendance during the reporting period, and (c) data and/or information products developed during the reporting period. *NOTE: Lack of compliance with the Trustee Council's data policy and/or the project's data management plan will result in withholding of additional project funds, cancellation of the project, or denial of funding for future projects.*

Draft manuscript in progress - to be published in an American Fisheries Society book

An oral presentation was made of the results at the 2006 ASLO Summer Meeting

Participation at the 2006 Alaska Marine Science Symposium (poster on this project was presented)

Budget: Explain any differences and/or problems between actual and budgeted expenditures, including any substantial changes in the allocation of funds among line items on the budget form. Also provide any new information regarding matching funds or funds from non-EVOS sources for the project. *NOTE: Any request for an increased or supplemental budget must be submitted as a new proposal that will be subject to the standard process of proposal submittal, technical review, and Trustee Council approval.*

N/A

We can accept your annual report as a digital file (Microsoft Word or WordPerfect), with all figures and tables embedded. Acrobat Portable Document Format (PDF) files (version 4.x or later) are also acceptable; please do not lock PDF files or include digital signatures.

Please submit reports electronically to science_director@evostc.state.ak.us. Also, please be sure to post your annual report on your own website, if you have one.



*We appreciate your prompt submission of your annual report
and thank you for your participation.*

Submit this report via e-mail to science_director@evostc.state.ak.us. Thank you!