

LOWER COOK INLET WASTE MANAGEMENT PLAN

Project Number: 02514

Restoration Category: General Restoration

Proposer: Tom Turner/ADEC on behalf of Lower Cook Inlet communities

Lead Trustee Agency: Alaska Department of Environmental Conservation

Alaska SeaLife Center: No

Duration: 1st yr., 2 yr. project

Cost FY 02: \$47,900 (Phase I)

Cost FY 03: To be determined (Phase II)

Geographic Area: Lower Cook Inlet

Injured Resource/Service: Intertidal and subtidal organisms, nearshore seabirds, shorebirds, marine mammals; also recreation and subsistence

ABSTRACT

This project will promote recovery of injured resources and protect and enhance environmental quality in the lower Cook Inlet communities of Nanwalek, Port Graham, and Seldovia. In FY 99 (Project 99514), the Trustee Council funded development of a plan for a waste management program that identifies solutions to these three communities' waste management problems. The component of the plan proposed for EVOS funding relates primarily to used oil and household hazardous waste. In FY 02, this project will undertake the first phase of plan implementation, which will include site visits, training, and follow-up assistance visits by the Alaska Department of Environmental Conservation, in conjunction with the Kenai Peninsula Borough and the Chugach Regional Resources Commission, in regard to existing waste management equipment and procedures. Phase I will also include recommendations to the Trustee Council on any additional equipment needs, facility needs, and follow-up for possible funding later in FY 02.

INTRODUCTION

This project is designed to minimize marine pollution from land-based sources, and to promote the recovery of coastal resources damaged by the *Exxon Valdez* oil spill. Three communities impacted by the spill, Port Graham, Nanwalek and Seldovia in lower Cook Inlet, generate a variety of wastes typical of small towns. These include used oil from machines, generators and vessels and household hazardous wastes. These communities currently are building capacity for planning, equipment, training, and development of infrastructure to manage wastes in an environmentally sound manner. However, significant needs remain to be addressed. Consequently, wastes generated within the communities continue to produce a chronic source of pollution that not only hinders full recovery of the marine environment but also has a negative impact on the general quality of life.

Under Project 99514, the Alaska Department of Environmental Conservation (ADEC) contracted with Montgomery Watson to assess the waste management needs in Port Graham, Nanwalek, and Seldovia. These needs are summarized in the Lower Cook Inlet Waste Management Plan. Project 02514 will be the first phase of plan implementation. ADEC's Statewide Public Service/Compliance Assistance, in conjunction with the Kenai Peninsula Borough and Chugach Regional Resources Commission, will conduct site visits, training, and follow up assistance visits in each community. The site assessments will review the recommendations in the Montgomery Watson plan and the Stephi Engineering, LLC reviews of the plan. The site assessments will be specific to used oil collection and household hazardous waste in the communities.

There are some existing collection systems in place for used oil and household hazardous waste through the Kenai Peninsula Borough. However, the collection of household hazardous waste and used oil in these three communities has not been fully effective due to limited knowledge and training. ADEC's Statewide Public Service, with cooperation with the Kenai Peninsula Borough, will provide training on the handling of household hazardous waste and used oil. This training will build upon the existing Kenai Borough collection system while providing base knowledge in communities to implement the Lower Cook Inlet Waste Management Plan. All three communities will receive an initial site visit, training and a follow-up assistance visit.

In addition, ADEC's Statewide Public Service will make recommendations to the Trustee Council on additional activities and/or facilities to improve waste management in these three communities. These recommendations are expected by February 28, 2002 and will be presented to the Trustee Council for possible funding as Phase II in early spring 2002.

This project is modeled after the Prince William Sound Waste Management Plan (Project 96115) and the Kodiak Island Waste Management Plan (Project 99304) funded by the Trustee Council.

NEED FOR THE PROJECT

A. Statement of Problem

The communities of Seldovia, Nanwalek, and Port Graham generate a variety of waste streams that may be entering, degrading and preventing the recovery of the spill area. The project team from Montgomery Watson, based on field visits and on-site interviews, assessed existing waste management practices and problems with village leaders and facility managers. Community facilitators from the Chugach Regional Resource Commission as well as City and Tribal Council representatives provided crucial input and assistance to the assessment.

Findings from the plan include the following:

- Communities annually generate used lubricating oil of more than 1,000 gallons in Seldovia, 250 gallons in Port Graham, and somewhat less at Nanwalek. Communities want to collect and re-use expended oil to generate heat.
- Discharges of oily bilge water may adversely affect marine wildlife. There is an opportunity for a centralized facility for bilge water at Seldovia Harbor.
 - Existing collection facilities and systems could be improved and their use could be enhanced.

B. Rationale/Link to Restoration

Pollutants entering marine waters are affecting resources and human uses injured by the oil spill. Human population growth, industrial activities and waste disposal contribute pollutants from local sources. The specific activities in this project would strengthen the communities' technical capabilities and environmental management. The project is designed to increase the communities' control and responsibility for waste management in order to identify, prevent, or limit pollution sources and associated damage.

C. Location

The communities in this project are Nanwalek, Port Graham, and Seldovia, which were directly affected by the oil spill. They are located on the southern side of lower Cook Inlet and must be reached by air or ocean; none have roads that connect them to other communities. Nanwalek and Port Graham are connected by a rugged trail with seasonal access for small all-terrain vehicles.

These communities depend upon subsistence resources, commercial fishing, and future development of tourism for their livelihood. Local natural resources are key to the health and well being of the residents. All project efforts will be focused on environmental management improvements and enhanced capability in these three communities.

COMMUNITY INVOLVEMENT AND TRADITIONAL KNOWLEDGE

People in the areas affected by the oil spill remain highly concerned about the health and recovery of their local natural resources. Each of the three communities has a Community Facilitator and is fully engaged in developing this project through the local governing council and community leaders. Several drafts of the Lower Cook Inlet Waste Management Plan were reviewed and discussed with each community prior to submittal to EVOS.

The Chugach Regional Resources Commission, which aids the environmental coordination needs of communities affected by the oil spill, will participate in the project, working closely with each community and ensuring that local concerns, knowledge, and needs are successfully addressed.

PROJECT DESIGN

A. Objectives

The overall objective of the project is to minimize marine pollution from land-based sources in Port Graham, Nanwalek, and Seldovia. The objectives of Phase I are to:

1. Conduct site visits, training, and follow-up assistance visits, with the participation of the Kenai Peninsula Borough and the Chugach Regional Resources Commission, in regard to existing used oil and household hazardous waste management equipment and procedures.
2. Develop recommendations to the Trustee Council on any additional equipment needs and follow-up (for a possible Phase II).

B. Methods

Conduct Site Assessments: The community site assessments/visits will review, assist and train the communities on used oil management, hazardous waste identification and handling procedures.

Develop Procedures: Procedures will be outlined for the operation and maintenance of equipment and the handling of used oil and household hazardous waste. Trainees will learn and work with more efficient means of managing the flow of used oil and household hazardous waste.

Conduct Training: Trainees will learn (a) the best method for storage, handling, filtering, record keeping and disposal procedures for used oil; (b) the advantages and disadvantages of used oil units and projected maintenance costs; (c) assembly and start-up procedures for Smart Ash Burners and the “do’s and don’ts “ of working with these units; (d) procedures for the proper routine maintenance of used oil burners, including changing oil filters, elimination of water, cleaning, etc.; (e) about household hazardous waste exchanges and other options to reduce household hazardous waste disposal costs; (f) maintenance procedures to reduce used oil leaks and spills; (g) routine inspections for residential home heating tanks, including repair of leaking fuel lines, valves and storage tanks, controlling spills and proper spill reporting procedures; and

(h) about the village's bulk fuel tanks in order to be able to detect a problem and to assist in the event of a spill situation. In addition, trainees will develop local procedures for residents to place their used oil in sheds and collection tanks, develop a community awareness program and teach residents how to prevent spills. Training will also include a site visit to Kodiak to review successful used oil collection centers in communities there; this will be a peer training opportunity with existing operators in Old Harbor and Ouzinkie.

Review Scrap Metal/Hazardous Material Procedures: Procedures to identify, remove and dispose of hazardous material in Scrap Metal Pile and junk vehicles will be reviewed.

Prepare Operating & Maintenance Manuals: O&M manuals will be prepared for used oil collection and household hazardous waste procedures.

Review Procedures to Identify, Store and Label Household Hazardous Wastes: Training will include how to read labels for proper identification of container contents, how to store similar materials together and separate from other possibly incompatible materials, and under what category to label materials for disposal.

C. Cooperating Agencies, Contracts, and Other Agency Assistance

Phase I of this project will be carried out in cooperation with the Kenai Peninsula Borough, the Chugach Regional Resources Commission, and the community governments of Nanwalek, Port Graham, and Seldovia.

SCHEDULE

A. Measurable Project Tasks (Phase I only)

Jan. 2002	Site visit to each community
Feb. 28, 2002	Submit recommendations on any additional equipment needs, facility needs, and follow-up to Trustee Council that might be addressed in a Phase II of the project
Jan-June 2002	Training and follow-up visits in each community

B. Project Milestones and Endpoint (Phase I only)

<u>Phase 1</u>	
By 2/28/02:	Submit recommendations on any additional equipment needs, facility needs, and follow-up to Trustee Council
By 6/02:	Complete site visits, training, and follow-up visits in each community

C. Completion Date

Phase I will be completed by June 2002. Any additional phases (depending on Phase I recommendations regarding any additional equipment needs, facility needs, or follow-up) will be brought before the Trustee Council later in FY 02 and will likely continue into FY 03.

PUBLICATIONS AND REPORTS

A written set of recommendations regarding any additional equipment needs or follow-up will be submitted to the Restoration Office by February 28, 2002.

PROFESSIONAL CONFERENCES

No attendance at professional conferences is included in this proposal.

NORMAL AGENCY MANAGEMENT

The project is not a requirement of state statute or regulation. This project is similar to the Prince William Sound Waste Management Plan (Project 96115) and Kodiak Waste Management Plan (Project 99304) funded by the Trustee Council.

COORDINATION AND INTEGRATION OF RESTORATION EFFORT

Because the Kodiak Waste Management Project (Project 99304) is in progress, there will be an opportunity to review and adapt lessons learned from that project. This will help ensure that full benefits to restoration can be achieved and sustained through project activities and community improvements in lower Cook Inlet.

EXPLANATION OF CHANGES IN CONTINUING PROJECT

Not applicable.

PROPOSED PRINCIPAL INVESTIGATOR

Tom Turner, Manager
Compliance Assistance Office
Division of Statewide Public Service
Alaska Department of Environmental Conservation
555 Cordova Street
Anchorage, Alaska 99501
907-269-7582 ph
907-269-7578 fx

Tom_Turner@envircon.state.ak.us

OTHER KEY PERSONNEL

Patty Brown-Schwalenberg
Executive Director
Chugach Regional Resources Commission
4201 Tudor Centre Drive, Suite 300
Anchorage, AK 99508
907-562-6647 phone
907-562-4939 fax
Alutiiqpride@acsalaska.net

FY 02 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2001 - September 30, 2002

Budget Category:	Authorized FY 2001	Proposed FY 2002					
Personnel		\$20.0					
Travel		\$8.0					
Contractual		\$11.9					
Commodities		\$3.4					
Equipment		\$0.8	LONG RANGE FUNDING REQUIREMENTS				
Subtotal	\$0.0	\$44.1	Estimated				
General Administration		\$3.8	FY 2003				
Project Total	\$0.0	\$47.9					
			Dollar amounts are shown in thousands of dollars.				
Other Resources							
Comments:							

FY02

Prepared: 11/30/01

Project Number: 02514
 Project Title: Lower Cook Inlet Waste Management Plan
 Implementation: Phase I
 Agency: ADEC

FY 02 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2001 - September 30, 2002

Personnel Costs:		GS/Range/ Step	Months Budgeted	Monthly Costs	Overtime	
Name	Position Description					
D. Marcolle			2.0	5.7		
D. Lundine			1.5	5.7		
Subtotal			3.5	11.4	0.0	
Personnel Total						
Travel Costs:		Ticket Price	Round Trips	Total Days	Daily Per Diem	
Description						
Site visits (3 each Seldovia, Port Graham, Nanwalek) (Marcolle & Lundine)		250.0	18	24	100.0	
Peer training trip to Kodiak (Marcolle & Lundine)		325.0	2	4	100.0	
Travel Total						

FY02

Project Number: 02514
 Project Title: Lower Cook Inlet Waste Management Plan
 Implementation: Phase I
 Agency: ADEC

FY 02 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2001 - September 30, 2002

Contractual Costs:		
Description		
Chugach Regional Resources Commission Printing Used Oil promo.		
When a non-trustee organization is used, the form 4A is required.		Contractual Total
Commodities Costs:		
Description		
Miscellaneous tools (wrenches, screwdrivers, transfer pumps, valves, etc.) NORA handouts Evacuator pumps Self-priming pumps Miscellaneous connectors and pipes Carrying case Smart Media equipment Reprints of Rural Used Oil info.		
		Commodities Total

FY02

Project Number: 02514
 Project Title: Lower Cook Inlet Waste Management Plan
 Implementation: Phase I
 Agency: ADEC

FY 02 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2001 - September 30, 2002

New Equipment Purchases:		Number of Units	Unit Price	
Description				
	Digital camera 4.0 mega pixel			
Those purchases associated with replacement equipment should be indicated by placement of an R.			New Equipment Total	
Existing Equipment Usage:		Number of Units		
Description				

FY02

Project Number: 02514
 Project Title: Lower Cook Inlet Waste Management Plan
 Implementation: Phase I
 Agency: ADEC

FY 02 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2001 - September 30, 2002

Budget Category:	Authorized FY 2001	Proposed FY 2002						
Personnel		\$6.5						
Travel		\$3.3						
Contractual		\$0.0						
Commodities		\$0.0						
Equipment		\$0.0						
Subtotal	\$0.0	\$9.9	LONG RANGE FUNDING REQUIREMENTS					
Indirect		\$1.5	Estimated FY 2003					
Project Total	\$0.0	\$11.4						
Full-time Equivalent (FTE)								
Dollar amounts are shown in thousands of dollars.								
Other Resources								
Comments:								

FY02

Prepared:

Project Number: 02514
 Project Title: Lower Cook Inlet Waste Management Plan
 Implementation: Phase I
 Name: Chugach Regional Resources Commission

FY 02 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2001 - September 30, 2002

Personnel Costs:			Months Budgeted	Monthly Costs	Overtime	
Name	Position Description					
	CRRC rep (for community site visits and peer training trip to Kodiak)		8 days			
	Stipends for 3 trainees (1 each from Seldovia, Port Graham, Nanwalek) for 8 days each at \$150/day					
Subtotal			0.0	0.0	0.0	
Personnel Total						
Travel Costs:		Ticket Price	Round Trips	Total Days	Daily Per Diem	
Description						
	Site visits (1 each Seldovia, Port Graham, Nanwalek) (CRRC representative)	250.0	3	6	100.0	
	Peer training trip to Kodiak (CRRC representative and 1 trainee each from Seldovia, Port Graham, Nanwalek)	300.0	4	8	100.0	
Travel Total						

FY02

Project Number: 02514
 Project Title: Lower Cook Inlet Waste Management Plan
 Implementation: Phase I
 Name: Chugach Regional Resources Commission

FY 02 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2001 - September 30, 2002

Contractual Costs:		
Description		
		Contractual Total
Commodities Costs:		
Description		
		Commodities Total

FY02

Project Number: 02514
 Project Title: Lower Cook Inlet Waste Management Plan
 Implementation: Phase I
 Name: Chugach Regional Resources Commission

FY 02 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2001 - September 30, 2002

New Equipment Purchases:		Number of Units	Unit Price	
Description				
Those purchases associated with replacement equipment should be indicated by placement of an R.			New Equipment Total	
Existing Equipment Usage:		Number of Units		
Description				

FY02

Project Number: 02514
 Project Title: Lower Cook Inlet Waste Management Plan
 Implementation: Phase I
 Name: Chugach Regional Resources Commission