8/25/95 version

Kenai Habitat Restoration & Recreation Enhancement Project

Project Number:	96180 Revised
Restoration Category:	General Restoration
Proposer:	ADNR/ADFG
Lead Trustee Agency:	ADNR/ADFG
Cooperating Agencies:	DOI
Duration:	Three Years
Cost FY 96:	560.6
Cost FY 97:	879.6
Cost FY 98:	759.6
Geographic Area:	Kenai Peninsula
Injured Resource/Service:	Pink salmon, sockeye salmon, Dolly Varden, commercial fishing, subsistence, recreation & tourism.

ABSTRACT

Adverse impacts to the banks of the Kenai River total approximately 19 miles of the river's 166 mile shoreline. Included in this total are 5.4 river miles of degraded shoreline on public land. Riparian habitats have been impacted by trampling, vegetation loss and structural development. This riparian zone provides important habitat for pink salmon, sockeye salmon and Dolly Varden, species injured by the *Exxon Valdez* oil spill. The project's objectives are to restore injured fish habitat, protect fish and wildlife habitat, enhance and direct recreation and preserve the values and biophysical functions that the riparian habitat contributes to the watershed. Restoration/enhancement techniques will include revegetation, streambank restoration, elevated boardwalks, floating docks, access stairs, fencing, signs, and educational interpretive displays.

INTRODUCTION

The objectives of this project are to:

1. Restore and protect fish habitat on the Kenai River,

2. Improve existing recreational access to the Kenai River watershed in a manner that restores and protects riparian fish and wildlife habitat,

3. Provide information to the public that promotes their understanding of the river's ecology and proper use of its resources.

Public lands on the Kenai Peninsula, including those soon to be acquired with *Exxon Valdez* oil spill joint settlement funds, contain important habitat for several species injured by the spill and provide recreation services for tens of thousands of Alaska residents and tourists. Kenai River fish support a large commercial fishery, a commercial sport fishing industry, a subsistence fishery, and a recreational sport

fishery. In the aggregate, revenues generated by sportfishing, commercial fishing and river-based tourism represent a significant and growing proportion of the local economy.

The riparian zone, the transitional area that lies between the river's channel and the uplands, provides important fish and wildlife habitat and plays a major role in the hydrology of the watershed by helping to control floods and erosion. This vegetated area functions as a buffer and filter system between upland development and the river, thereby maintaining water quality by absorbing nutrients, accumulating and stabilizing sediments, and removing heavy metals and pollutants that are a result of urban development and which enter the river from surface runoff. It is also the area where a significant portion of the Kenai River's sportfishing and other recreational activities are concentrated.

Degradation of the river's streambanks, riparian vegetation and fish habitat has the potential of jeopardizing its long term productivity and degrading the quality of the recreational experience. This project proposes revegetation, streambank restoration, and public access improvements that will promote pink and sockeye salmon and Dolly Varden habitat protection and restoration, as well as enhancement of recreational services in the Kenai River watershed. The project also proposes to design and construct educational and interpretive displays that will inform the public of the proper manner in which to access and use the river's resources.

NEED FOR THE PROJECT

A. Statement of Problem

Use of the Kenai River watershed is degrading fish habitat along the riparian zone of the mainstem and, to a lesser degree, the tributaries of the river. Streambanks that provide essential fish habitat are being trampled and denuded of vegetation leading to increasing rates of erosion and sedimentation. Both commercial and residential developments are altering shorelines, changing patterns of runoff and creating the potential for the discharge of non-point source pollutants into the river. Federal and state resource agencies have limited ability to manage these problems that have the potential of threatening the productivity and world class recreational value of this river system.

Commercial fishing, subsistence, recreation and tourism (including sport fishing) are services that were reduced or lost because of the spill. Within the Kenai River watershed, the resources that support these services that were injured by the *Exxon Valdez* oil spill include pink and sockeye salmon and Dolly Varden. Chinook and coho salmon also contribute significantly to these services. The *Exxon Valdez* Oil Spill Restoration Plan states that the Kenai River sockeye salmon population is not recovering and that: *With regard to sockeye salmon, the objective of habitat protection is to ensure maintenance of adequate water quality, riparian habitat, and intertidal habitat....*

The restoration strategy articulated in the restoration plan for recreation and tourism focuses on the: *Preservation and improvement of the recreational and tourism values of the spill area.* The Plan goes on to discuss strategies for promoting recovery of commercial fishing, recreation and tourism by: *...increasing the availability, reliability, or quality of the resource on which the service depends.*

What is needed within the Kenai River watershed is an integrated approach that protects resource habitats, restores degraded streambanks and riparian vegetation, maintains productivity and promotes appropriate, sustained human use of the river.

B. Rationale

The work proposed by this project is needed to protect and restore fishery resources. Continuing loss of habitat will exacerbate the injury caused by the spill to both resources and services and lead to diminished productivity. This, in turn, diminishes the value of the commercial, subsistence and sport fisheries and the quality of recreation on the river with significant, adverse implications for the local economy.

Based on a review of historic recreation use patterns and habitat impacts, the project will protect, restore, stabilize, or rehabilitate streambanks where resource damage is occurring; enhance or close existing access points and movement corridors; or re-direct users to other areas of the river on a temporary or long term basis. **These actions will be based on the need to facilitate human use of the river in a way that protects fish habitat and minimizes degradation of other sensitive and/or pristine habitats.**

This project is designed to promote streambank stability, increase vegetative cover, and mitigate accelerated erosion and sedimentation for the benefit of pink salmon, sockeye salmon, Dolly Varden and other fish species that migrate and rear along the river's banks. Techniques used to achieve these goals may include the use of elevated, grated boardwalks, river access stairs, fishing platforms, spruce tree revetments and other riparian habitat improvement and protection techniques. These techniques will, at the same time, restore and enhance sportfishing. One example is elevated, grated boardwalks, constructed to protect revegetating streambanks, that will provide river access to anglers with a minimum of impact to the recovering habitat. Post-construction monitoring will examine the effects of the method and the amount of recreational use that occurs in the area.

The education component of the project will produce user information and interpretive displays at strategically located access points along the river. These displays will provide users with information on the natural history of the river's fish, their habitats, ecology of the river system and the best methods that they can use to maximize their recreational experience with a minimum of impact to the watershed and its resources. Signs placed adjacent to work sites will describe the on-going restoration effort and direct the public away from recovering vegetation.

Each site under consideration for a restoration, enhancement or education project will be evaluated in terms of the condition of its habitats, character of adjacent lands, and historic public use. Improvements to access will reflect patterns of use as well as on-site and adjacent upland environmental sensitivities.

C. Summary of Major Hypotheses and Objectives

The project's major objective is to restore injured fish habitat and to establish public use patterns (i.e., sportfishing, camping, etc.) within the Kenai River watershed that are compatible with habitat protection for injured resources such as intertidal marshes, pink and sockeye salmon and Dolly Varden. The long

term goal of the project is to protect fish and wildlife habitat, enhance recreation and preserve the functions and values that the riparian habitat contributes to the watershed.

- Construction of elevated, grated boardwalks; exclosures; floating docks; fencing; signs; and well designed public use facilities will facilitate restoration and protection of riparian vegetation, stabilize streambanks, and maintain/enhance fish habitat by mitigating the effects of human use.

- Recreational enhancements will promote continued use of project sites while allowing riparian habitat to recover.

- Construction of educational and interpretive displays will aid restoration efforts and provide the public with information that will help them to use the river in a manner that protects and sustains its resources.

D. Completion Date

The project is conceived to be a multi-year effort that will build on results determined from the monitoring of the previous year's work. Projected timeline: FY 96 to FY 99.

COMMUNITY INVOLVEMENT

It is intended that the project be fully integrated with on-going agency recreation management, ermitting and regional planning activities affecting the Kenai River watershed. This includes coordination with the Kenai Peninsula Borough, City of Kenai, Kenai City Council, City of Soldotna, Soldotna City Council, Kenai Peninsula Borough Assembly, and local interest groups. Whenever feasible, volunteers will be recruited from the local communities to work on the project.

FY 96 BUDGET:

Personnel	228.8
Travel	15.8
Contractual	253.0
Commodities	11.0
Equipment	0.0
Subtotal	508.6
Gen. Admin.	52.0
Total	560.6

PROJECT DESIGN

A. Objectives

1. Review existing information on:
   a) human impacts to the riparian zone on public lands in the Kenai River watershed in order to select project sites.

   b) recreational use patterns and infrastructure support in the Kenai River watershed.

   c) appropriate restoration and/or access and use of enhancement technique(s).

2. Select and design the appropriate revegetation, rehabilitation and/or enhancement project for each site.

3. Develop an evaluation process to prioritize project sites and define scope of work.

4. Construct projects using a combination of competitively bid contracts and volunteer help, where feasible.

5. Verify compliance with restoration designs and evaluate construction.

6. Implement a monitoring program to assess restoration and use of project sites.

7. Design and construct educational and interpretive signs and displays.

B. Methods

The present condition of North America's native fish fauna is attributable, in part, to the degradation of aquatic ecosystems and habitat (FEMAT Report, 1993). Loss and degradation of freshwater habitats are the most frequent factors responsible for the decline of anadromous salmonid stocks (Nehlsen, et. al. 1991). Along with habitat modification or loss, changes in water quality and quantity are often cited as causative factors for degradation of aquatic systems and declines in anadromous fish populations.

The *Kenai River Cumulative Impacts Assessment of Development Impacts on Fish Habitat* (Liepitz, 1994) was designed to identify and evaluate the cumulative impacts of development actions including public and private land use impacts on Kenai River fish habitat. The study documented that : *11.1 percent to 12.4 percent (18.4 to 20.6 miles) of the river's 134 miles of upland and 32 miles of island shoreline and nearshore habitats have been impacted by bank trampling, vegetation denuding, and structural development along the river's banks.* Degraded public land along the Kenai River includes 5.4 miles of trampled riparian habitat and 3.5 miles of developed shoreline.

During the first year of the project, we will review information from existing studies of the Kenai River on fish habitat, shoreline characteristics, streambank damage, streambank rehabilitation, land ownership, public use trends, development threats, habitat protection/recreation enhancements, infrastructure and public access. On-going and completed restoration projects on the river will also be inspected. This

information will be supplemented with personal observations of ADNR and ADF&G staff who have expert knowledge of the river and its use by the public. These data will be used to document the existing condition of potential sites and used later as a baseline for monitoring project success. The data will also be used to develop an evaluation and ranking system to prioritize projects.

Although these data are useful for a broad, area-wide approach, they are not adequate for specific site design. Consequently, once a preliminary list of sites is selected, on-site verification/assessment will be carried out. The final list of project sites will reflect the results of these assessments. Site specific project designs will reflect site characteristics including: topography, hydrologic variables, vegetation, soils, extent and type of degradation and historic use patterns. Designs may include elements that restore or enhance specific habitat values. For example, instream structures may be used to enhance fish habitat and/or angler access. Plant propagation and streambank restoration techniques will be selected on the basis of site characteristics, constraints and cost. Revegetation designs will attempt to re-establish the native, riparian plant communities. Grasses that have been successfully used for riparian and saltmarsh revegetation in Alaska include: bluejoint reedgrass (*Calamagrostis canadensis*), Bering hairgrass (*Deschamsia beringensa*), sloughgrass (*Beckmannia syzigachne*), sedges (*Carex spp.*) and beach wildrye (*Elymus mollis*).

Successful revegetation requires control of site impacts. Consequently, fences and/or signed closures may be required to protect undamaged sites from human impact or to prevent additional damage to recovering sites. Project areas will either be closed and posted during the course of revegetation, or environmental engineering techniques will be used that allow public access but protect the recovering habitat from additional adverse impacts. Habitat improvement and protection techniques to be considered include:

On-site Revegetation/Restoration	Signage
Exclosures	Elevated Grating/Boardwalks
Spruce Tree Revetments	Access Stairs Ladder
Access Trails	Floating Docks

The number of sites selected for revegetation or enhancement in a given year will be dependent upon the time necessary for completion, i.e., permitting, construction and installation, and the availability of funding. The project intends to utilize volunteers to assist with construction and installation. The DNR Parks and Outdoor Recreation Division has an established network of contacts with volunteer organizations on the Kenai Peninsula. DNR has successfully used volunteers in trail construction and park maintenance efforts. Each site plan will include a maintenance element. Maintenance may include watering, fixing fences, replacing signs and/or repair of habitat enhancements.

Educational/interpretive displays will be designed, constructed and placed in strategic locations along the river. Signs will also be designed and located to prevent bank trampling in areas where revegetation efforts are occurring.

A monitoring program will be used to evaluate the success or failure of each project. Monitoring parameters will be chosen that reflect site-specific restoration/enhancement objectives and may include habitat, vegetation and public use measurements. The assessment of the existing condition of each site will serve as the baseline for monitoring. Monitoring measurements will be obtained frequently early in

the project and could be used to amend the design if necessary. Once it is determined that restoration/enhancement is proceeding on an acceptable course and rate, monitoring measurements will be taken less frequently. Habitat and population monitoring parameters may include: vegetation diversity and cover, fish utilization and stream stability. Public use of the sites and impacts to adjacent areas will also be monitored. Site visitation shall be based on counts of individual people by field staff and project personnel.

C. Contracts and Other Agency Assistance

All components of the project will be carried out by personnel from ADF&G and ADNR. Construction work will be carried out by contractors on an "as-needed" basis depending on the project design. Volunteers supervised by agency staff will assist in the installation of prefabricated structures and in routine maintenance.

D. Location

All construction, maintenance and monitoring components of the project will be located within the Kenai River watershed. Planning and coordination will be based in Anchorage. Primary ecological benefits from the project will be realized by the natural systems within the watershed. Secondary benefits will affect the economy of the communities of the Kenai Peninsula and the commercial fishing industry. Improved and enhanced recreation benefits will affect users from southcentral Alaska as well as tourists from outside of the state. Communities that may be affected by the project include: Kenai, Soldotna, Homer, Sterling, Cooper Landing, Anchorage and the unincorporated communities on the Kenai Peninsula.

SCHEDULE

A. Measurable Project Tasks for FY 96

Startup to April 15:	Acquire and review existing data on Kenai River, Develop implementation strategy, i.e., applicability of techniques to different site conditions, Review planned, on-going and completed restoration projects in the Kenai River watershed, Develop site evaluation, ranking and priorization system, Conduct pre-construction site surveys, assessments and data collection, Develop design plans for restoration, enhancement and education components, Apply for Title 16, Parks and COE permits for first priority sites, Conduct public scoping meetings and resource agency meetings and prepare environmental compliance documents, Harvest and store plant materials, Organize volunteer support.
April 16 to May 15:	Review comments and revise environmental compliance documents, Respond to permitting issues and secure construction permits,

	Conduct construction work, e.g., floating docks, needed below the OHW elevation on first priority sites.
May 16 to July 15:	Construct bank stabilization and revegetation projects, construct boardwalks, fencing, signage, etc Design and put up signs and information displays. .
July 16 to August 15:	Inspect all project sites to check for compliance with design parameters, Monitor revegetation sites, Monitor public use of completed project and proposed sites for next year.
August 16 to September 30:	Continue monitoring, Prepare annual report.

B. Project Milestones and Endpoints

Startup to November 1, 1995

Review existing information on:

a) human impacts to the riparian zone on public lands in the Kenai River watershed in order to select project sites.

b) recreational use patterns and infrastructure support in the Kenai River watershed.

c) appropriate restoration and/or access and use enhancement technique(s).

November 1, 1995 to April 15, 1995

Select and design the appropriate revegetation, rehabilitation and/or enhancement project for each site.

Develop an evaluation process to prioritize project sites and define scope of work.

April 16, 1995 to July 15, 1995

Construct projects using a combination of competitively bid contracts and volunteer help, where feasible.

Verify compliance with restoration designs and evaluate construction.

July 16, 1995 to August 15, 1995

Implement a monitoring program to assess restoration and use of project sites.

Design and construct educational and interpretive signs and displays.

August 16, 1995 to September 30, 1995

Continue monitoring,

Prepare annual report.

FY 96 and Beyond

Continuing work will include primarily permitting, construction and monitoring. Environmental compliance and public coordination efforts will also continue.

C. Project Reports

An annual report will be prepared detailing results of the previous year's efforts including monitoring. This report will be submitted to the Chief Scientist in the Fall of each year.

COORDINATION AND INTEGRATION OF RESTORATION EFFORT

Coordination will occur with agency staffs in DNR, ADF&G and the Kenai National Wildlife Refuge. Their expertise will be used in defining management objectives, developing criteria, evaluating and ranking potential project sites, conducting archaeological and historical reviews and clearances, performing design to include preparing plans and specifications, bidding construction projects, oversight of project construction, permitting, monitoring public use, and enforcing site restrictions.

The project will build upon pilot efforts that have been implemented or are being developed for the river. In 1994, boardwalks were installed near the Soldotna airport and on numerous private parcels; exclosures have been used with a high degree of success along portions of the Russian River and in units of the state park system. State permitting procedures have also resulted in numerous bank stabilization projects that maintain or enhance fish habitat by using spruce tree revetments, root wads, live willow cuttings, and other protective measures.

The state and federal governments have already committed funds to accomplish several of the objectives identified by this project. Fish and Game *Exxon Valdez* criminal settlement funds ($3 million) have been dedicated for the construction of habitat protection demonstration projects and land acquisition on the Kenai River. The U.S. Fish and Wildlife Service has provided challenge grant funding to assist the ADF&G demonstration projects. The National Marine Fisheries Service will provide the ADF&G with an additional one million dollars for streambank improvements under an appropriation requested by Senator Stevens. ADNR restitution funds ($7 million) will be used, in part, to construct boardwalks and access platforms that protect streambanks at heavily used state park units at Morgan's Landing, Bing's Landing, and Slikok Creek. Dingle-Johnson funds are being used to provide recreational access, streambank revegetation, and streambank protection structures at The Pillars project site.

The intense public use pressures and development activities on the Kenai River threaten to overwhelm the limited budgets available to resource agencies attempting to manage the river for resource protection and sustained recreational use. That is why supplementary funding is so important. The proposed project,

along with those utilizing other available funds, provides a cost-effective method to protect streambanks and minimize further habitat degradation.

ENVIRONMENTAL COMPLIANCE

The revegetation and education elements of the project are categorically exempt from formal documentation in an Environmental Assessment or Environmental Impact Statement according to NEPA guidelines. In-stream construction of floating docks, boardwalks, access stairs or other in-stream structures will require an Environmental Assessment and a Title 16 permit. All permits will be obtained prior to commencement of on-site improvements.

PERSONNEL

Project Leader

Mark Kuwada - Habitat Biologist with the Alaska Department of Fish and Game for 15 years. Extensive experience in coordinating departmental policy and mitigating major project impacts; Project Manager for Federal OCS Oil and Gas Leasing Program; Susitna Hydroelectric Project; Bradley Lake Hydroelectric Project; Diamond Chuitna Coal Project ADF&G Response Coordinator, Exxon Valdez oil spill. ADF&G Title 16 permitter for southcentral Alaska and the Kenai River.

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Lance Trasky, Project Manager
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Project Leader

TBD - DNR will appoint a project leader with the following qualifications:
B.S. and graduate degree(s) in biology, zoology and/or fisheries.
Extensive experience in field biology, permitting, design and construction of restoration projects and in coordinating departmental policy with other state and federal resource agencies. The project leader will have a working knowledge of the natural resources and human uses of the Kenai River watershed.

Marty K. Rutherford, Project Manager
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REFERENCES

Alaska Dept. of Fish and Game and Alaska Dept. of Natural Resources. 1986. *Field Guide for Streambank Revegetation*, Anchorage, AK: Alaska Dept. of Fish and Game.

Forest Ecosystem Management Team. 1993. *Forest Ecosystem Management: An Ecological, Economic, and Social Assessment.* Portland, OR: U.S. Forest Service. FEMAT Report.

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Schiechtl, Hugo. 1980. *Bioengineering for Land Reclamation and Conservation.* 404 pgs. Edmonton, Alberta: Univ. Alberta Press.

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Sowl, John H. 1990. *Restoration of Riparian Wetlands Along a Channelized River: Oxbow Lakes and the Middle Missouri.* Environmental Restoration, p. 294-305. Berger, John, J. ed. Washington, D.C.: Island Press.

8-25-95 version

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Budget Category:	Authorized FFY 1995	Proposed FFY 1996	PROPOSED FFY 1996 TRUSTEE AGENCIES TOTALS					
			ADEC	ADF&G	ADNR	USFS	DOI	NOAA
				$291.4	$383.1			
Personnel	$0.0	$228.8						
Travel	$0.0	$15.8						
Contractual	$0.0	$253.0						
Commodities	$0.0	$11.0						
Equipment	$0.0	$0.0	LONG RANGE FUNDING REQUIREMENTS					
Subtotal	$0.0	$508.6	Estimated FFY 1997	Estimated FFY 1998	Estimated FFY 1999	Estimated FFY 2000	Estimated FFY 2001	Estimated FFY 2002
General Administration	$0.0	$52.0						
Project Total	$0.0	$560.6	$879.6	$759.6	$0.0	$0.0	$0.0	$0.0
Full-time Equivalents (FTE)	0.0	3.1						
	Dollar amounts are shown in thousands of dollars.							
Other Resources	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0

Comments: This budget reflects the use of a volunteer labor pool requiring housing and other logistical support. Additional volunteers will be utilized whenever possible from various organizations within the local community. Volunteers will contribute to three phases of riverbank restoration:
1. Construction of boardwalks to minimize user impact, 2. Active revegetation of degraded shoreline on public lands, and 3. Passive restoration of impacted shorelines on public lands including the construction and installation of signs, fencing and other mechanisms to channel recreational use of sites designated for restoration and enhancement.

1996

Prepared:

Project Number: 96180
Project Title: Kenai Habitat Restoration and Enhancement
Lead Agency: AK Dept. of Natural Resources

FORM 2A
PROJECT
DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Budget Category:	Authorized FFY 1995	Proposed FFY 1996	LONG RANGE FUNDING REQUIREMENTS					
			Estimated FFY 1997	Estimated FFY 1998	Estimated FFY 1999	Estimated FFY 2000	Estimated FFY 2001	Estimated FFY 2002
Personnel		$93.0						
Travel		$5.3						
Contractual		$116.0						
Commodities		$5.5						
Equipment		$0.0						
Subtotal	$0.0	$219.8						
General Administration		$22.1						
Project Total	$0.0	$241.9	$440.0	$400.0				
Full-time Equivalents (FTE)		1.2						
	Dollar amounts are shown in thousands of dollars.							
Other Resources								

Comments:

1996

Prepared:

Project Number:
Project Title: Kenai Habitat Restoration and Enhancement
Agency: AK Dept. of Natural Resources

FORM 3A
AGENCY
PROJECT
DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Personnel Costs:			GS/Range/	Months	Monthly		Proposed
PM	Name	Position Description	Step	Budgeted	Costs	Overtime	FFY 1996
	TBD	Natural Resource Manager II	20	12.0	7,000	0	84.0
	TBD	Park Ranger II	16	2.0	4,500		9.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
		Subtotal		14.0	11,500	0	
Those costs associated with program management should be indicated by placement of an *.						**Personnel Total**	$93.0

Travel Costs:		Ticket	Round	Total	Daily	Proposed
PM	Description	Price	Trips	Days	Per Diem	FFY 1996
						0.0
	Travel to Kenai to attend meetings, conduct site evaluations, inspections, supervise and monitor construction and revegetation.	114	20	20	150	5.3
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
Those costs associated with program management should be indicated by placement of an *.					**Travel Total**	$5.3

1996

Project Number:
Project Title: Kenai Habitat Restoration and Enhancement
Agency: AK Dept. of Natural Resources

FORM 3B
Personnel
& Travel
DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Contractual Costs:	Proposed FFY 1996
Description	
Planning, organization and coordination of volunteers, including recruitment and on site support. Assumes a min. of 6 volunteers/2 mos, housing, and monthly stipend.	15.0
Alaska Conservation Corps, on site supervision of volunteers, coordination, site logistics. (This provides a reliable pool of supervisory personnel with construction experience necessary for efficient use of volunteer labor pool)	24.0
Signage providing information on closures, alternative use, habitat restoration.	10.0
Passive revegetation; largely labor intensive requiring minimal material and contractual costs.	10.0
Consultant, plant materials center for preliminary consultation, assessment and monitoring as needed.	10.0
Boardwalk Installation as needed on approximately 300 linear feet with appropriate river access provided to reduce river bank impact. (Estimate is based upon 300 feet @ $150.00 per linear foot, actuals may vary due to site specific considerations.)	45.0
Equipment rental .	2.0
When a non-trustee organization is used, the form 4A is required. **Contractual Total**	$116.0

Commodities Costs:	Proposed FFY 1996
Description	
Field equipment as needed, may include: shovels, picks, fencing supplies, and other hardware. Every effort will be made to utilize existing supplies currently on hand with Division of Parks and other agencies working in the Kenai area.	5.0
Office Supplies (includes paper, toner cartridges, data cartridges, mailing labels, large mailing envelopes etc.)	0.5
Commodities Total	$5.5

1996

Project Number:
Project Title: Kenai Habitat Restoration and Enhancement
Agency: AK Dept. of Natural Resources

FORM 3B
Contractual & Commodities DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

New Equipment Purchases: Description	Number of Units	Unit Price	Proposed FFY 1996
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
Those purchases associated with replacement equipment should be indicated by placement of an R.		**New Equipment Total**	$0.0

Existing Equipment Usage: Description	Number of Units	Inventory Agency

1996

Project Number:
Project Title: Kenai Habitat Restoration and Enhancement
Agency: AK Dept. of Natural Resources

FORM 3B
Equipment
DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Budget Category:	Authorized FFY 1995	Proposed FFY 1996	LONG RANGE FUNDING REQUIREMENTS					
			Estimated FFY 1997	Estimated FFY 1998	Estimated FFY 1999	Estimated FFY 2000	Estimated FFY 2001	Estimated FFY 2002
Personnel		$107.5						
Travel		$5.3						
Contractual		$137.0						
Commodities		$5.5						
Equipment		$0.0						
Subtotal	$0.0	$255.3						
General Administration		$25.7						
Project Total	$0.0	$281.0	$400.0	$320.0				
Full-time Equivalents (FTE)		1.4						
	Dollar amounts are shown in thousands of dollars.							
Other Resources								

Comments:

1996

Prepared:

Project Number:
Project Title: Kenai Habitat Restoration and Enhancement
Agency: AK Dept. of Fish and Game

FORM 3A
AGENCY
PROJECT
DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Personnel Costs:			GS/Range/	Months	Monthly		Proposed
PM	Name	Position Description	Step	Budgeted	Costs	Overtime	FFY 1996
	TBD	Project Manager	24	1.0	7,500		7.5
	TBD	Habitat Biologist III	18	12.0	6,500		78.0
	TBD	Habitat Permitter/Biologist	18	2.0	6,500		13.0
	TBD	Fish & Game Technician	11	2.0	4,500		9.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
		Subtotal		17.0	25,000	0	
Those costs associated with program management should be indicated by placement of an *.						**Personnel Total**	$107.5

Travel Costs:		Ticket	Round	Total	Daily	Proposed
PM	Description	Price	Trips	Days	Per Diem	FFY 1996
						0.0
	Travel to Kenai to attend meetings, conduct site evaluations, inspections, supervise and monitor construction and revegetation.	114	20	20	150	5.3
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
Those costs associated with program management should be indicated by placement of an *.					**Travel Total**	$5.3

1996

Project Number:
Project Title: Kenai Habitat Restoration and Enhancement
Agency: AK Dept. of Fish and Game

FORM 3B
Personnel
& Travel
DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Contractual Costs:	Proposed FFY 1996
Description	
Active revegetation as needed on approximately 1,000 linear feet of river frontage. (Costs may range from $50 to $300 per linear foot depending on existing site conditions; estimate reflects an average cost of $100 per linear foot)	100.0
Passive revegetation; largely labor intensive requiring minimal materials and contractual costs.	25.0
Signage providing information on closures, alternative use, habitat restoration.	10.0
Equipment rental.	2.0
When a non-trustee organization is used, the form 4A is required. **Contractual Total**	$137.0

Commodities Costs:	Proposed FFY 1996
Description	
Field equipment as needed, may include: shovels, picks, fencing supplies, and other hardware. Every effort will be made to utilize existing supplies currently on hand with Division of Parks and other agencies working in the Kenai area.	5.0
Office Supplies (includes paper, toner cartridges, data cartridges, mailing labels, large mailing envelopes etc.)	0.5
Commodities Total	$5.5

1996

Project Number:
Project Title: Kenai Habitat Restoration and Enhancement
Agency: AK Dept. of Fish and Game

FORM 3B
Contractual & Commodities DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

New Equipment Purchases: Description	Number of Units	Unit Price	Proposed FFY 1996
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
Those purchases associated with replacement equipment should be indicated by placement of an R.		**New Equipment Total**	$0.0

Existing Equipment Usage: Description	Number of Units	Inventory Agency

1996

Project Number:
Project Title: Kenai Habitat Restoration and Enhancement
Agency: AK Dept. of Fish and Game

FORM 3B
Equipment
DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Budget Category:	Authorized FFY 1995	Proposed FFY 1996	LONG RANGE FUNDING REQUIREMENTS					
			Estimated FFY 1997	Estimated FFY 1998	Estimated FFY 1999	Estimated FFY 2000	Estimated FFY 2001	Estimated FFY 2002
Personnel		$28.3						
Travel		$5.2						
Contractual		$0.0						
Commodities		$0.0						
Equipment		$0.0						
Subtotal	$0.0	$33.5						
General Administration		$4.2						
Project Total	$0.0	$37.7	$39.6	$41.6				
Full-time Equivalents (FTE)		0.5						
	Dollar amounts are shown in thousands of dollars.							
Other Resources								

Comments: This proposal is for a Fish and Wildlife Biologist and Recreation Planner to assist the project in fulfilling NEPA requirements and to coordinate and participate in the planning and site selection with ADF&G and ADNR. The Fish & Wildlife Service is a major landowner along the Kenai River and has actively participated in efforts to implement habitat restoration projects on the Kenai River.

1996

Prepared:

Project Number: 96180
Project Title: Kenai Habitat Restoration and Enhancement
Agency: US Fish & Wildlife Service

FORM 3A
AGENCY
PROJECT
DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Personnel Costs:			GS/Range/ Step	Months Budgeted	Monthly Costs	Overtime	Proposed FFY 1996
PM	Name	Position Description					
	TBD	Biologist	GS-11/12	3.0	5,417		16.3
	Emily Dekker-Fiala	Outdoor Recreation Planner	GS-9	3.0	3,998		12.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
							0.0
		Subtotal		6.0	9,415	0	
Those costs associated with program management should be indicated by placement of an *.						**Personnel Total**	$28.3

Travel Costs:		Ticket Price	Round Trips	Total Days	Daily Per Diem	Proposed FFY 1996
PM	Description					
						0.0
	Travel to Kenai to attend meetings, conduct site evaluations, inspections, supervise and monitor construction and revegetation.	110	7	25	178	5.2
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
						0.0
Those costs associated with program management should be indicated by placement of an *.					**Travel Total**	$5.2

1996

Project Number: 96180
Project Title: Kenai Habitat Restoration and Enhancement
Agency: DOI, US Fish & Wildlife Service

FORM 3B
Personnel
& Travel
DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

Contractual Costs:	Proposed FFY 1996
Description	
When a non-trustee organization is used, the form 4A is required. **Contractual Total**	$0.0

Commodities Costs:	Proposed FFY 1996
Description	
Commodities Total	$0.0

1996

Project Number: 96180
Project Title: Kenai Habitat Restoration and Enhancement
Agency: DOI, US Fish & Wildlife Service

FORM 3B
Contractual & Commodities DETAIL

1996 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 1995 - September 30, 1996

New Equipment Purchases: Description	Number of Units	Unit Price	Proposed FFY 1996
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
			0.0
Those purchases associated with replacement equipment should be indicated by placement of an R.		**New Equipment Total**	$0.0

Existing Equipment Usage: Description	Number of Units	Inventory Agency

1996

Project Number: 96180
Project Title: Kenai Habitat Restoration and Enhancement
Agency: DOI, US Fish & Wildlife Service

FORM 3B
Equipment
DETAIL