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Regional Citizens' Advisory Council / 601 West Fifth Avenue, Suite 500 / Anchorage, Alaska 99501-2254-4 (907) 277-79221/ Fex 1907) 277-24523

RCAC Resolution 92-06

EXXOR VALDEZ OIL SPILL TRUSTEE COUNCIL ADMINISTRATIVE RECORD

WHEREAS, the Prince William Sound Regional Citizens' Advisory Council supports the concept of long-term, responsible and unbiased research being carried out in the EVOS region; and

WHEREAS, State Senator Arliss Sturgulewski has proposed an Exxon Valdez Marine Science Endowment, which members of the Scientific Advisory Committee have reviewed and approved;

NOW, THEREFORE BE IT RESOLVED THAT the Prince William Sound Regional Citizens' Advisory Council recommend to the Exxon Valdez Oil Spill Trustees Council that their Restoration Plan include a long- term research endowment, as proposed by Senator Sturgulewski;

FURTHER LET IT BE RESOLVED THAT, in particular, the Prince William Sound Regional Citizens' Advisory Council recommends that Exxon Valdez Oil Spill Trustees Council fund research solely on the basis of its scientific merit and encourage the development of an independent peer review process, which would lessen the possibility that partisan funding of research projects can occur.

CERTIFICATION

This resolution was duly adopted by the RCAC at an RCAC meeting held $\underline{Dec. 10}$, 1992 by the following vote:

Aves Abstain Navs Scott Sterling Presiden Michelle O'Leary, Secretary

ATTEST:

December 11, 1992

A REVISED SCHEDULE for the RESTORATION PLAN and ENVIRONMENTAL IMPACT STATEMENT/E

January 1003	Pestoration Team Trustee Council review alternatived 4000		
January 1995	Restoration Team, Trustee Council Teview anematives. 1992		
Late February 1993	Trustee Council revises and approves alternatives: Z GIL SPILL TRUSTER COUNCIL		
March 24	Alternatives information package.		
May 16	Trustee Council approves Draft Restoration Plan and Draft Environmental Impact Statement.		
June 7	Publish Draft Environmental Impact Statement and Restoration Plan.		
June 7 - Aug. 7	Public comments and public review of Draft Restoration Plan and Draft Environmental Impact Statement (60 days).		
Aug. 7 - Sept. 1	Analyze public comments.		
Sept. 1 - Nov. 1	Revise Environmental Impact Statement and Restoration Plan including response to comments.		
Nov. 10	Trustee Council approval of Final Environmental Impact Statement and Restoration Plan.		
Nov. 25	Publish and distribute Final Environmental Impact Statement and Final Restoration Plan.		
Nov. 25 - Dec. 25	30-day notification period for the Environmental Impact Statement.		
Dec. 27	Adopt Final Plan and Record of Decision.		



CORDOVA DISTRICT FISHERMEN UNITED

P.O. Box 949) [[CE]] VE Cordova, Alaska 99574^{DEC} 1 4 1992

EXXON VALDEZ OIL SPILL Phone (907) 424-3447 Fax (907) 424-3430 HCH.

December 9, 1992

Exxon Valdez Trustee Council 645 "G" Street Anchorage, Alaska 99501

Dcar Sirs:

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CDFU requests the Trustee Council to consider funding two coded-wire tag projects for pink salmon that were proposed but not included in the 1993 Draft Work Plan. According to the <u>Summary</u> of Injury, wild pink salmon suffered the greatest impact due to EVOS:

> "In the autumn of 1989 egg mortality in oiled streams averaged about 15 percent, compared to about 9 percent in unoiled streams. Subsequently, egg mortality has In 1991 there was a 40 to 50 generally increased. percent egg mortality in oiled streams."

The 1993 Draft Work Plan currently includes two studies supported by CDFU which relate to pink salmon: Project 93003, "Pink Salmon Egg to Pre-Emergent Fry Survival in Prince William Sound" and Project 93004, "Documentation, Enumeration, and Preservation of Genetically Discrete Wild Populations of Pink Salmon Impacted by EVOS in Prince William Sound." Both of these projects will provide valuable information to identify physical and genetic damage to wild stocks, but they do not provide a mechanism to help resource managers protect distressed pink salmon populations. There is a real and immediate need for a coded-wire tagging project for pink salmon to identify in-season returns of wild stocks within the larger mixed stock fishery. Without this information, it is extremely difficult for resource adjust management strategies adequate 10 insurc managers to escapement for damaged wild stocks.

CDFU requests the Trustee Council to fund the following two projects which were proposed but not included in the Draft 1993 Work Plan:

1) Document #920615297.38, "Coded Wire Tagging of Wild Pink Salmon for Wild Stock Identification," and

2) Document #920615297.42, "Coded Wire Tag Rccoveries from Commercial Catches in Prince William Sound Pink Salmon Fisheries."

Funding of these projects will bridge a critical data gap for effective pink salmon management and provide a complete resource picture for wild stock management at all life stages.

Sincerely,

CORDOVA DISTRICT FISHERMEN UNITED

Mary McBurney, Executive Director

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FROM SANT FISH & GAME ANCH.

EXXON VALDEZ OIL SPILL TRUSTER COUNCIL

TO

FORMAT FOR IDEAS FOR RESTORATION PROJECTS

Tirle of Project: Coded Wire Tagging of Wild Stock Fink Salmon For Stock Identification

Justification: Wild stock pink salmon production in Prince William Sound (PWS) has ranged from 10 to 15 million fish in recent years. Up to 751 of pink salmon spawning in PWS occurs in intertidal sreas. Pink salmon populations in oiled streams have experienced higher agg mortalities, larval deformities, and lover juvenile growth rates than atocks from unoiled streams and hatcheries. There is also evidence that pink salmon from oiled streams sustained genetic damage which has resulted in persistent reduced egg survival following the spill. Commercial ficherics in PWS hervost selmon from damaged and healthy wilds stocks, and the numerically superior hatchery returns. Depleted and less productive oiled populations cannot sustain as high an exploitation rate in PWS commercial figheries as unciled wild and hatchery stocks; consequently, they require special protection from commercial fisherics if adequate numbers are to ascape and spawn. Coded wire tags are a stock identification tool which will enable managers to identify stock specific temporal and spatial distributions in FWS, alter fisheries inseason, direct fishing efforts towards numerically superior hatchery stocks, away from damaged wild stocks, and monitor the recovery of damaged wild stocks.

Description of Project: Wild pink salmon fry from the intertidal and upstream portions of five oiled and five control streams will be enumerated. Portions of the upstream and intertidel sub-populations in each stream will be coded-wire tagged throughout the outmigration. Tag codes unique to each stress and subpopulation will provide marked fish of known origin and exposure history. Tag recoveries from adults will be used to estimate hatchery and wild stock contributions to commercial catches by time and area. Catch contribution results coupled with wild stock escapement and hatchery stock brood data will be used to estimate total returns and survival rates for hatchery and wild stocks. Time and area hatchery and wild stock contribution information will be used to direct fishing fleet toward aggregations of hatchery fish and away from areas where damaged wild fish are present in significant numbers. Estimates of total return and survival for hatchery and wild stocks will enable panagers to conitor wild stock specific recovery from oil damage and assess the effectiveness of ravised management strategies. Intertidal fry veirs were pioneored in FWS (see NRDA F/S Study 3). Half length coded-wire tagging technology, recovery procedures in processing plants, tag retrieval procedures, tagging and recovery data archiving, and tag data analysis methods also have long histories of success.

Estimated Duration of Project: Damaged even and odd year pink salmon populations should be tagged and their returns monitored and managed independently until oiled effects have been shown to have diminished balow levels apt to cause significant reductions in survival.

Estimated Cost of Project: \$990,000 per year.

Other Comments: The estimated cost includes only the cost of enumerating and tagging wild fry. Recovery activities are funded in separate proposals.

Nomo Address, Telephono: Dan Sharp and Sam Sharr Alaska Department of Fish and Game Box 880 Cordeva, Alaska 99574 907-424-5900 CDFU STRISH & GAME ANCH.

EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL

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FORMAT FOR IDEAS FOR RESTORATION PROJECTS

Title of Project: Coded-wire Tag Recoveries from Commercial Catches in Frince William Sound Pink Salmon Fisheries (Restoration Study 60A)

Justification: Pink solmon populations in oiled streams in Prince William Sound (FWS) have experienced higher egg mortalities, larval deformities, and lower juvenile growth rates than stocks from unoiled streams and hatcheries. There are also observations which suggest that oiled pink selmon have sustained genetic damage which has resulted in reduced egg survival following the spill. Commercial fisheries in FWS harvest salmon from damaged and healthy wilds stocks, and the numerically superior hatchery returns. Depleted and less productive oiled populations cannot sustain as high an exploitation rate in FWS commercial fisheries is unoiled wild and hatchery stocks; consequently, they require special protection from commercial fisheries if adequate numbers are to escape and spawn. Coded wire tags are a stock identification tool which will enable managers to identify stock specific temporal and spatial distributions in FWS, alter fisheries inseason, direct fishing efforts towards numerically superior hatchery stocks, away from damaged wild stocks, and monitor the recovery of damaged wild stocks.

Description of Project: This project will recover coded-wire mags from malmon caught in the commercial salmon fisheries in Prince William Sound. Recoveries will be conducted at shore based processing plants. Tag extractions will be completed by the ADF&G tag laboratory in Juneau and data analyses will be completed by ADF&G staff in Cordova. Tag recovery data will be used to estimate hatchery and wild stock contributions to commercial catches by time and area. Catch contribution results coupled with wild stock escapement and hatchery stock brood data will be used to estimate total returns and survival rates for hatchery and wild stocks. Time and area hatchery and wild stock contribution information vill be used to direct fishing fleet toward aggregations of hatchery fish and avey from ereas where damaged wild fish are present in significant mumbers. Estimates of total return and survival for hatchery and wild stocks will enable managers to monitor wild stock specific recovery from oil damage and essess the effectiveness of revised management strategies. Coded-wire tagging technology, recovery procedures in processing plants, tag retrieval procedures, tagging and recovery data archiving, and tag data analysis methods have long bistories of success. Coded-wire tagging of all hatchery salmon is already funded and conducted by aquaculture associations. A wild pink selmon fry tagging project would compliment this project and has been requested in a separate proposal.

Estimated Duration of Project: Both even and odd year pink calcon populations should be monitored until management strategies have been shown to be successful and oiled effects have been shown to have diminished below levels apt to cause significant reductions in survival.

Estimated Cost per Year: \$855,000 per year

Other Comments: This is a currently funded restoration project (R60C)

(907) 424-5900

Name, Address, Telephone: Sam Sharr and Carol Feckham Alaska Department of Fish and Game P.O. Box 880 Cordova, AK 99574



CORDOVA DISTRICT FISHERMEN UNITED

P.O. Box 939

Cordova, Alaska 99574

Phone (907) 424-3447 Fax (907) 424-3430

December 9, 1992

Exxon Valdez Trustee Council 645 "G" Street Anchorage, Alaska 99501

Dear Sirs:

Before you finalize the 1993 restoration work plan, CDFU urges you to add two time-critical restoration projects for Prince William Sound. As we stated in our initial work plan comments, CDFU is particularly concerned that the 1993 Draft Work Plan does not include any restoration projects related to Pacific herring. The <u>Summary of Injury</u> in Appendix A of the draft work plan states that herring resources were impacted by the oil spill and describes abnormalities observed in the embryonic, larval and adult life stages. The <u>Summary of Injury</u> goes on to state that, "Whether the adult population has been affected by these larval injuries and lesions will not be determined until the 1989 and 1990 cohorts return to spawn in 1992 and 1993."

Considering the time-critical factor, it is extremely disappointing that the 1993 Draft Work Plan does not include a herring injury study. The <u>Summary</u> of <u>Injury</u> outlines the documented damage sustained by various marine species, including marine mammals, seabirds and shellfish. Of all the marine animals demonstrating oil-related injuries, Pacific herring and rockfish are the only species not represented by at least one project in the 1993 work plan. This is unconscionable.

Pacific herring represents an \$11.7 million fishery in PWS (1991 total estimated ex-vessel value for all gear types) and is a critical food source for Steller sea lions, seals, killer whales, sea ducks (such as scoters, murres and pigeon guillemots), gulls (especially kittiwakes), and certain migratory shorebirds (such as surfbirds and turnstones). During this past field season, ADF&G biologists noted that the 1989 year class returned as age-3 first-time adult spawners at the lowest level measured since 1967. This is particularly disturbing when noting that they were the offspring of the largest spawning population in PWS since the early 1970's. University of Washington biologists, working with ADF&G, found the 1988 year class (which were one-year old fish in 1989) demonstrated significantly reduced reproductive capabilities (hatching success for eggs from unoiled areas was 56% versus 20% for oiled area eggs and levels of abnormalities in hatched larvae were twice as high in oiled areas). 1992 was the first available opportunity to observe reproductive success in adult and juvenile herring affected by the spill. These facts should be a wake up call to the restoration team that there may be some big problems with Pacific herring in PWS.

It's apparent that the low numbers of fish in the 1989 year class coupled with the potential damage in the reproductive capabilities of the 1988 year class create a situation demanding specific management strategies. Precise stock assessment is needed to formulate long range restoration plans that protect the resource and manage human use. This process, however, cannot take place in a vacuum. ADF&G must have data to make informed decisions regarding herring management. Therefore, we urge you to fund two vital studies which were proposed for the 1993 work plan, but subsequently disregarded:

- 1) Document #960615297.3, "PWS Herring Spawn Deposition Survey," and
- 2) Document #920611234, "Herring Embryo Viability Evaluation Natural and Catastrophic Effects."

We urge you to approve and fund these two projects and correct a grievous oversight in planning the recovery of resources damaged by the Exxon Valdez oil spill.

Sincerely,

CORDOVA DISTRICT FISHERMEN UNITED L. McBurney, Executive Director

ME ANCH. TO

EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL

FORMAT FOR IDEAS FOR RESTORATION PROJECTS

Title of Project:

Prince William Sound (PWS) Herring Spawa Deposition Survey

Justification: (Link to Injured Resource or Service)

Herring embryos, larvae, adults were injured by the Exxon Valdez oil spill.

Description of Project (e.g. goal(s), objectives, location, rationale, and technical approach)

The spawn deposition survey program provides a real time estimate of the spawning herring population by measuring egg deposition within PWS. The survey period was extended by sampling more intensively in 1989 as a direct result of the spill to improve the accuracy of the estimate. Maintaining the spawn deposition survey at the current level of effort will help in maintaining the level of accuracy in the resulting stock assessment and forecasting procedures. The survey can also provide information pertaining to eventual stock recruitment such as egg density, egg survival, and age composition details. The information derived can be used to direct and monitor restoration. The techniques employed are standard in Southeast Alaska and British Columbia for spawn deposition surveys. Transects are allocated randomly over the spawning areas and run perpendicular to the shoreline across the width of spawn deposited. Egg densities are estimated every five meters and average egg deposition is expanded over an area. Diver calibration curves (used to correct the diver estimates) are developed by sampling eggs on kelp samples and comparing the actual count of eggs to diver estimates. Variance measurements can be estimated at each step in the model and confidence intervals can be applied to the resulting biomass estimate.

Estimated Duration of Project: Continuing

Estimated Cost per Year: \$231,000

Other Comments: This project falls within the category of management of human use since the information derived will be used directly in the stock assessment and management of the resource (Restoration Option No. 2. Intensify Management of Fish and Shellfish). In addition, this project falls within the category of Restoration Option No. 31, development of a comprehensive monitoring program. Since herring constitute a large portion of the fish biomass in PWS and since they are an important prey item for many species of birds, mammals and other fish, the health of the herring population may be tied to the health and reproductive success of growth of other species in PWS.

Name, Address, Telephone:

Evelyn Biggs, Herring Research Biologist, Alaska Department of Fish and Game Division of Commercial Fisheries, Box 669, Cordova, AK 99574-0669. (907)424-3213

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CDFU

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Justification: The customary method of evaluating the health of a herring fishery is to measure "miles of spawn", "tonns of spawning blomass", "skein weight", etc. Because natural variability fluctuates so widely from year to year, and embryo viability can be effected right up to the time of hatching, it is unlikely that these types of measurements possess the sensitivity necessary to accurately measure small but significant changes in fertility and fecundity of a specific year class. This is particularly true when trying to evaluate the effects of natural and man-made disasters such as the EVOS, and becomes extremely important in 1993 when the embryos and larvae which were exposed to the EVOS will return for the first dime as spawning four-year-olds. By determining the fecundity of individual females as well as site-specific effects, it should be possible to determine if sublethal damage has increased embryo mortality, decreased percent hatch, or increased larval mortality and defects. All of these would result in suble but significant reductions in year-class production which would not be easily detected by the standard methods of measurement, but could influence long-term herring productivity.

Project Description: Ripe herring from multiple year classes will be collected from multiple sites during their spawning season in PWS, and individually spawned onto artificial substrates, which will then be used to conduct two types of embryo/larval survival studies. (1) The developing embryos from each fomale will be incubated separately until hatching, then evaluated for fertilization success, embryo mortality, hatching success, gross larval defects and larval biomass. (2) Pooled embryos from several females will be deployed at various known spawning sites around PWS to evaluate individual site effects on the success and development of viable herring larvae. These will also be compared with the success of naturally spawned embryos at the same sites. Study 1 will supply variability data on yearclass fecundity, while study 2 will supply data on site effects which may be influenced by a variety of natural and man-made phenomena. In combination with standard biomass data, this new data could be factored into models of overall reproductive success and expected fecundity for each year class. By using experimentally spawned embryos, it should be possible to precisely evaluate the success of individual eggs from individual females to become viable larvae and successfully enter that year's cohort. From a scientific perspective, this methodology allows for a more reliable statistical evaluation of fecundity.

The majority of the work will be done on-site at Prince William Sound in collaboration with Alaska Department of Fish & Game's annual spawn deposition studies. Artificial spawning will take place on-site in Cordova, AK. Incubation of the embryos and larvae will take place at the Prince William Sound Science Center or the University of Washington's Friday Harbor Marine Laboratory's new Larval Fish Lab. I have successfully conducted similar artificial heiring spawning studies using PWS herring, Puget Sound herring and Baltic and North Sea herring since 1985, and have perfected the various techniques to where they are easily used in both the field and laboratory.

Estimated Duration of Project: 3 years (Jan. 1, 93 - Dec. 31, 95)

Estimated Cost per Year: \$189,000

Richard M. Kocan, Ph.D. School of Fisheries HF-15 University of Washington Scattle, Washington 98195

Phone (206) 685-2984 FAX (206) 685-3275

00	Document ID Number 920611234			
a	A-92 WPWG			
B	8-93 WPWG			
	C - RPWG			
10	D - PAG			
D	E-HISC.			

October 30, 1992

Exxon Valdez Oil Spill Trustee Council 645 G Street Anchorage, Alaska 99501

Dear Sirs:

The members of the Injury to PWS Herring Research Team have reviewed the available data and recommend the following as the very minimum to resolve oil-related impact to herring populations:

- 1. Continue to monitor the reproductive success of the 1988 year class. Expand the experimental design to define differences due to individual variability, location, and timing of spawn.
- 2. Evaluate the reproductive success of the 1989 year class in 1993, the first year these adults can be evaluated.

Pertinent findings from our recent synthesis neeting include the following:

POPULATION EFFECTS:

1. In 1992, the 1929 year class returned as age 3 first-time adult spawners at the lowest level measured since 1967. This year class represents returning offspring of the largest spawning population in Prince William Sound since the early 1970s. The abundance of the 1989 year class in FWS falls in the outer tail of the distribution curve. In contrast, the 1989 year class abundance at Sitka Sound, Southeast Alaska (where age composition and abundance typically tracks with FWS) falls in the middle of the distribution curve.

2. In 1992, adults from the dominant 1988 year class demonstrated significantly reduced reproductive capabilities (batching success from unoiled area eggs was 56% versus 20% in the oiled areas). 1992 was the first available opportunity to observe the reproductive success of the 1988 year class. If this is a true oil effect, the mechanism for the reproductive impairment would be irreversible genetic damage to the germ cells of fish from the 1988 year class as one year olds. Herring from oiled areas produced fewer than 40% of the viable offspring from adults at unoiled areas.

3. 1989 adult fish from the oiled areas exhibited histopathological signs of severe toxicity. Fish from unoiled areas were healthy. In 1990, persistent toxic effects were found in adults from oiled areas, indicating long-term damage. DEC 07 '92 14:51 CORDOVA FILL, 3 GAME.

4. Eggs and larvae incubating during 1989 were severely damaged. Egg mortality increased 5 to 10% in oiled areas during 1989 and 1990.

It is our responsibility to the public to resolve the questions of age class disappearance and reproductive impairment before it can be unequivocally stated that there is no long-term damage to herring populations in Prince William Sound.

Sincerely,

ap Ellen Hose

Dr. Jo Ellen Hose, Aquatic Toxicologist Injury to PWS Herring Research Team

Dr. Richard Kocan, Professor University of Washington

Harry D. Meety

Dr. Gary Marty, DVM V Histopathologist University of California, Davis

cc: Evelyn Biggs, Principal Investigator Robert Spies, Chief Scientific Advisor, Trustee Council Steve Fried, Regional Research Coordinator, Anchorage James Brady, Regional Management Coordinator, Anchorage Ken Florey, Regional Supervisor, Anchorage Wayne Donaldson, Area Management Biologist, Cordova Restoration Team Members



FROM:

ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF COMMERCIAL FISHERIES MEMORANDUM

TO: Jerome Montague Director OSIAR/Habitat Div. Juneau

Evelyn Biggs 1/

Cordova

Herring Research Biologist

DATE: October 26, 1992

P.12

FILE:

TELEPHONE: 424-3213

SUBJECT: Summary of significant findings in 1992.

Members of the Injury to PWS Herring Research Team have reviewed the available data and recommend the following as the very minimum to resolve oil-related impact to herring populations:

- 1. Continue to monitor the reproductive success of the 1988 year class. Expand the experimental design to define differences due to individual variability, location, and timing of spawn.
- 2. Evaluate the reproductive success of the 1989 year class in 1993, the first year these adults can be evaluated.

Pertinent findings from our recent synthesis meeting include the following:

POPULATION EFFECTS:

1. In 1992, the 1989 year class returned as age-3 first time adult spawners at the lowest level measured since 1967 (Figure 1A). This year class represents returning offspring of the largest spawning population (as estimated by ASA) in Prince William Sound (PWS) since the early 70s (Figure 1B). The abundance of the 1989 year class in PWS falls in the outer tail of the distribution curve (Figure 1C). In contrast, the 1989 year class abundance at Sitka Sound, Southeast Alaska (where age composition and abundance typically tracks with PWS) falls in the middle of the distribution curve (Figures 2 and 3). 2. In 1992, adults from the dominant 1988 year class demonstrated significantly different reproductive capabilities (hatching success from unoiled area eggs was 56% vorsus 20% in the oiled areas). 1992 was the first available opportunity to observe the reproductive success of the 1988 year class. If this is a true oil effect, the mechanism for damage would be irreversible genetic damage to the germ cells of fish from the 88 year class as one year olds, reducing their ability to produce viable offspring by a magnitude of two.

Supportive Evidence:

- 3. 1989 adult fish from the oiled areas exhibited histopathological signs of severe toxicity. Fish from unoiled areas were healthy. Persistent toxic effects were found in adults from oiled areas in 1990, indicating long-term damage.
- 4. Eggs and larvae incubating during 1989 were severely damaged. Egg mortality increased 5 to 10% in oiled areas during 1989 and 1990.

It is our responsibility to the public to resolve the questions of age class disappearance and reproductive impairment before it can be unequivocally stated that there is no long-term damage to herring populations in Prince William Sound.

cc: John Wilcock Steve Fried James Brady Ken Florey Wayne Donaldson





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7/30/92--4:31 PM



RECRUITS.XLS

7/30/92--4:31 PM



RECRUITS XLS

7/30/92--4:47 PM

CDFU Pound Division



Exxon Valdez Trustee Council. 645 "G" Street Anchorage, Alaska 99501

CDFU

Dear Sirs:

The Herring Pound Division of Cordova District Fishermen United requests that you reconsider funding two time-critical injury studies for Pacific herring: Doc. #960615297.3, "Herring Spawn Deposition Survey," and Doc. #920611234, "Herring Embryo Viability Evaluation - Natural and Catastrophic Effects." The current 1993 Draft Work Plan does not include any herring injury studies although the Summary of Injury clearly states that herring embryos and larvae were damaged through contact with oil.

> "A large percentage of abnormal embryos and larvae were found in samples from oiled areas of Prince William Sound collected during the 1989 reproductive season. Larvae in oiled areas also had a greater incidence of eye tumors. Analysis of histopathological abnormalities in tissues of adult herring reveal the occurrence of some lesions whose presence would be consistent with exposure to oil. Whether the adult population has been affected by these larval injuries and lesions will not be determined until the 1989 and 1990 cohorts return to spawn in 1992 and 1993."

In addition, field work conducted during the 1992 season revealed that the age 3 first-time adult spawners were at the lowest level recorded since 1967. This missing age class represents herring spawned in the spring of 1989. The 1992 season also showed that the hatching success of herring eggs in unoiled areas was 56% compared to a 20% rate of success for oiled areas. The disappearance of the three-year age class and the physical abnormalities documented at all life stages of the 1989 and 1990 age groups demands further investigation.

It is essential that the Trustees fund herring spawn deposition survey #960615297.3 and herring embryo viability study #920611234 to determine the extent of the physical, genetic and reproductive damage sustained by Pacific herring in Prince William Sound. These studies are key restoration projects necessary for managing distressed herring populations. If there are skewed recruitment numbers due to the oil spill, we need to adjust the herring management strategy to protect the resource and compensate for the documented lower spawning success. Both the herring spawn deposition survey and the herring embryo viability study are extremely time-critical. 1992 and 1993 have been identified in the <u>Summary of Injury</u> as the key seasons for data collection to assess damage to herring stocks impacted by the Exxon Valdez oil spill. The CDFU Pound Division urges your support of these projects so that PWS herring resources can be effectively managed and protected.

Sincerely. ller. an

Jeannine Buller, Chair CDFU Pound Division

PRODUCTION SCHEDULE FOR DRAFT RESTORATION PLAN WITH

SCHEDULE

ALTERNATI

DEC 1 4 1992

December 1992

EXXON VALDEZ OIL SPILL Develop estimates of costuand: duration for implementing optionsWISTRATIVE RECORD

MILESTONE

Quantify expert judgements of options effectiveness.

Determine geographic scope of options.

Complete recreation key informant interviews.

Rewrite "services" options.

Calculation of endowments.

Complete draft of injury assessment.

Revise database.

SCHEDULE

MILESTONE

January 1993

Expand alternatives to include new information developed in December.

Complete writing of key elements (Sect III. - Injury Assessment; Sect V. - Restoration Plan Alternatives; Appendix A. - Restoration Options).

Develop graphics (maps and illustrations).

Develop public participation program in anticipation of publishing Draft Restoration Plan with Alternatives.

Restoration Team/Trustee Council review of expanded alternatives and key elements.

SCHEDULE

MILESTONE

February 1993

Revise expanded alternatives and key elements based on Restoration Team and Trustee Council comments.

Write remainder of plan and brochure.

Further Trustee Council review and sign-off on Draft Restoration Plan with Alternatives.

March 1993

Publish Draft Restoration Plan with Alternatives.

TESTIMONY REGARDING THE MMS 5-YEAR OIL/GAS LEASING PLAN

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I would like to offer a statement regarding the proposed MMS leasing program and its implications to Alaska, as well as to the united States.

1.1.1 KK

EXXON VALDEZ GR SPILL I recently returned from a 10-week tour of Prince William Standow Where I visited oiled beaches, observed results of clean-upDoperations and approximate of the Exxon oil spoke with dozens of individuals about the impacts of the Exxon oil spill. What I observed and experienced, more than two years after the oil spill, confirmed to me that the following points need to be addressed in a more straight-forward manner:

1. The oil industry and the government downplay both the impacts as well as potential impacts of oil spills and other toxic contamination.

2. Oil spills and other toxic contamination in fragile environments such as Prince William Sound or in the Beaufort, Chuckchi or Bering Seas, or in the Arctic National Wildlife Refuge will adversely impact the entire ecosystem for long periods of time.

3. Post-spill scientific research should be ethically, fundamentally and philosophically questioned, owing to the fact that much of it is funded, governed and owned by the oil industry.

I have specific concerns pertaining to the proposed 5-year leasing program. It is my understanding that one and only one public hearing is to b held in Alaska, where over 50% of the proposed leases are to occur. "Information" or "dialog" hearings are inappropriate vehicles with which to assess public imput. Whether this is by design or by oversight, I question this, and ask that you offer to citizens the opportunity to have their comments documented in the public record. I ask that you change the structure of upcoming meetings in Kodiak, Dillingham, Cordova and Homer. These should be public hearings, not merely dialog sessions.

A further concern I have pertains to a National Academy Of Sciences statement which characterizes information on impacts of leasing, development and production of oil in the inter-continental areas of Florida and California as being both inadequate and unreliable. If this is indeed true, then I seriously question the reliability and adequacy of information regarding similar development off Alaskan waters. As you are no doubt aware, arctic and sub-arctic environments, both aquatic and terrestrial, are extremely fragile and complex. I am left to conclude that the potential impacts to Alaska have been either minimized or dismissed in the NAS literature. Likewise, I question the accuracy of information within the DEIS provided by ICF Resources Incorporated, particularly regarding ability of systems to recover from inevitable oil spills, be they catastrophic event spills or chronic, low-level and long-term spills. Thirdly, I must express deep disappointment in the proposed MMS oil/gas leasing plan for what it represents in realistic as well as symbolic terms. It is unbalanced in its failure to share the burden of environmental damage with more populated, politically sensitive areas of the country. It is based on inadequate and questionable scientific methods. And it unfortunately symbolizes what lies at the very core of decades-old energy problem: a failure to move away from dependence not on foreign oil, but from dependence on oil itself. As evidenced by the Persian Gulf War, our nation's energy and foreign policies are dangerously inter-connected to the point where national security is seriously jeapordized, and will continue to be jeopardized, until current energy priorities change.

For these reasons I feel that the MMS's five-year oil/gas leasing plan is not appropriate and that Alternative II (NO ACTION) is the most reasonable choice. I object to the way in which the public has not been fully brought into the discussion. I question the scientific findings which form the basis of the DEIS. I am moved by what I experienced and observed in the aftermath of the Exxon oil spill, and what it signifies for inevitable future spills in and off Alaskan waters. I am disheartened at the way our country continues to delay moving toward the long-term benefits of clean, low-impact and more sustainable energy sources. I am bewildered by the inability of the world's greatest technological nation to be able to produce energyefficient vehicles and applicances.

My hope is that whomever you are and whatever your capacity or political allegiance, you will realize and act on the inescapable fact that America not only deserves a more progressive, far-sighted energy policy, but that the economic and environmental health and vitality of the nation demands such. The longer we continue stalling in this process, the greater the consequences. Thank you for your time.

John D. Lyle Box 83715 Fairbanks 99708 Alaska 9/8/91 RS. The following statement was submitted to the MMS regarding proposed Alaska leasing programs. I submit it to the Oil Spile Trustes Council to be entired into the officer record at the Secendri 11, 1992 meeting. It's basic points are those which I wanted to submit to your group, and therefore still applicable and current. Thank you. Sincerely, Phird, life

11.1.1155

Acquisition Costs Presumptive Habitat - Kachemak Bay, Alaskan

Acreage: Total Cost:

-1 ×11

7,500 \$7,500,000 - \$8,400,000 RUSTEE COUNCIL ADMINISTRATIVE

This parcel contains 5,000 acres that have been proposed for logging in 1993.^{VE} RECORD The Seldovia Native Association has applied for 8 permits from the State of Alaska Department of Natural Resources and the Alaska Department of Fish and Game. The adjacent 2,500 acres are also proposed for acquisition for a total of 7,500 acres. Timber rights for this acreage have been sold, although there is not yet a pending permit application.

There are three areas of land held by the Seldovia Native Association remaining within the designated area wherein the public will own neither timber rights nor surface/subsurface rights. There are also an unknown number of smaller private inholdings.

This parcel is within Kachemak Bay State Park. China Poot Bay is a highly productive estuary which provides habitat for water birds, anadromous fish, and intertidal marine life. It has significant archaeological sites and is highly visible from Homer and adjacent marine waters. The parcel also receives very high recreational use.

Habitat protection of this site has a high to moderate potential to benefit the following species/services affected by the Exxon Valdez Oil Spill:

High Potential Bald Eagle Intertidal/Subtidal Biota Recreation/Tourism Marbled Murrelet

Moderate Potential River Otter Anadromous Fish Cultural Resources Subsistence Harlequin Duck

* For details on benefits derived from Habitat Protection, please refer to Acquisition Parcel Summary, CIK01.

Habitat protection/acquisition of the additional 2,500 acres would also provide protection of:

- 1. The lower and intertidal portion of several anadromous streams.
- 2. The forested riparian zone along Wosnesenski Creek, a large anadromous stream.
- 3. Most of the shoreline of China Poot Bay.
- 4. Islands and gravel bars in China Poot Bay.

MEMORANDUM

TO:

· ...-

State of Alaska

DEPARTMENT OF NATURAL RESOURCES

OIL SPILL RESTORATION OFFICE

- Charles Cole Attorney General
- FROM: Marty
- Marty Rutherford Assistant Commissioner

DATE: December 10, 1992

SUBJECT: Habitat Protection/Acquisition

1. The map depicts, in red, parcels of land on the lower Kenai Peninsula that are *imminently threatened* by development. The basis for this conclusion is that the owners have applied for permits to log these lands in 1993. The Seldovia Native Association has applied for eight permits for the Peterson Bay/China Poot Bay parcel [CIK 01] from ADNR and ADF&G. These permits have not, as yet, been issued. They will also require an Army Corps of Engineers permit.

2. The proposed harvest area of the China Poot Bay parcel is 5300 acres. It is highly likely that the actual area harvested will be less because:

- a) The entire area is not timbered,
- b) There may be required setbacks/buffers,
- c) All timber may not have commercial value.

3. The China Poot Bay, Jakolof and Sadie Cove parcels vary in degree of benefit to injured resources/services that would result from habitat protection. They would rank according to the potential for benefit for the 15 affected/linked resources and services as follows:

- 1 = Peterson Bay/China Poot Bay [CIK 01]
- 2 = Jakolof Bay [CIK 03]
- 3 = Sadie Cove [CIK 02]

4. Linkage to affected resources/services ranges from destruction/disturbance of nesting habitat to disturbance of feeding and/or breeding behavior by human activity, i.e., boat traffic, log transfer operations.

5. The data sets utilized for the habitat evaluation include:

- a) The Nature Conservancy workshop report
- b) Anadromous Fish Stream Catalog
- c) ADF&G Habitat Regional Guides
- d) USFWS bald eagle nest maps
- e) Catalog of Alaskan Seabird Colonies
- f) ADF&G subsistence reports

6. Shoreline oiling impacts depicted on the map is derived from one data set.

Phone: 907/278-8012

FAX: 907/276-7178

POTENTIAL IMPACTS TO INJURED RESOURCES/SERVICES FROM TIMBER HARVEST

1. Anadromous fish



- -- decrease in water quality
- -- loss of instream woody debris
- -- loss of riparian habitat: bank erosion, temperature changes, increased ice formation, nutrient depletion, aquatic insect loss
- -- stream blockage from blowdown, debris torrents, slash
- -- increased predation
- -- increased fishing pressure due to increase ease of access
- 2. Bald Eagle
 - -- loss of nest trees
 - -- increase disturbance to nesting sites, abandonment
 - -- decrease prey base

3. Black Oystercatcher

- -- potential damage to nest sites
- -- disturbance to nesting and foraging
- 4. Common Murre
 - -- disturbance of nesting colonies from shipping activities, helicopter traffic, and increased boat traffic
- 5. Harbor Seal
 - -- destruction to haulout sites due to development of transfer facilities
 - -- disturbance to haulout and foraging sites due to development of transfer facilities
 - -- increased hunting pressure due to increased opportunity
 - -- increased risk of disease transmission
- 6. Harlequin Duck
 - -- loss of nesting habitat
 - -- disturbance to nest sites and feeding and breeding behavior
 - -- icreased hunting pressure due to increased access
- 7. Intertidal/Subtidal biota
 - -- loss of biota from placement of log transfer facility and log storage ie. rafts and yards
 - -- bark settlement in near-shore subtidal
 - -- decreased near-shore water quality from run-off, sedimentation, contaminants
 - -- increased battering of intertidal biota from drift logs

-- compaction of sediments form equipment and log storage

- 8. Marbled Murrelet
 - -- loss of nesting opportunities
 - -- disturbance to nesting and brood rearing
 - -- disturbance to breeding activity
- 9. Pigeon Guillemot
 - -- lost of nesting opportunities
 - -- disturbance to nesting and brood rearing
 - -- disturbance to breeding activity
- 10. River Otter
 - -- disturbance and loss of latrine sites
 - -- increased trapping pressure due to increased access
- 11. Sea Otter
 - -- disturbance of pupping habitat and haulout sites
 - -- disturbance to breeding activities
 - -- increased hunting pressure due to increased opportunities

12. Recreation/Tourism

- -- alteration of landscape/loss of scenic values
- -- increased competition for recreation opportunities including harvest of fish and wildlife
- -- increase boat collisions with drift logs
- -- displace wilderness based recreation and businesses dependent on natural settings
- -- decreased fish and wildlife for viewing and recreational harvest
- 13. Wilderness
 - -- permanent loss of wilderness values
- 14. Cultural Resources
 - -- disturbance to archeological sites
 - -- loss of archeological artifacts

15. Subsistence

- -- increased competition for resources due to influx of logging workers and increased access
- -- decreased fish and wildlife for harvest
- -- loss of harvest areas
- -- increased reliance on cash economy

-

HABITAT PROTECTION / ACQUISITION PARCEL SUMMARY

parcel #: CIK 01	PARCEL NAME: Peterson Bay / China Poot Bay			,
¹ LANDOWNER: Seldovia Native Association		PARCEL ACREAGE: 5,300	² TOTAL ACREAGE:	³ AFFECTED ACREAGE:
INJURED SPECIES / SERVICE	PO	TENTIAL FOR BENEFIT	AL FOR COMMENT	
Anadromous Fish		Moderate	Five cataloged anadromous streams on parcel. Coho, chum, sockeye, and pink salmon and Dolly Varden spawning and rearing habitat.	
Bald Eagle		High	Intertidal foraging and feeding on anadromous fish. Twenty six documented nest sites on parcel.	
Black Oystercatcher		Low	Likely that oystercatchers use gravel spits and intertidal for feeding and nesting.	
Common Murre		Low	Murre colony (est. 3,200 birds) on adjacent Gull Rock may benefit from protection from increased disturbance.	
Harbor Seal		Low	Harbor seals forage in area may occasionally haul-out on rocks and spits.	
Harlequin Duck		Moderate	Suspected nesting along riparian areas. Foraging in streams and estuary.	
Intertidal/subtidal biota		High	China Poot Bay is documented as one of the most productive shallow benthic habitats in Kachemak Bay.	
Marbled Murrelet	High		High confidence that nesting occurs on parcel. Large numbers of murrelets forage on Kachemak Bay.	
Pigeon Guillemot	Low		Foraging occurs in waters.	adjacent marine

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HABITAT PROTECTION / ACQUISITION PARCEL SUMMARY

Moderate	High use area.
Low	Forage in adjacent marine waters.
High	Neptune, Peterson, and China Poot bays and Gull Rock receive high use. Highly visible from Homer and Kachemak Bay. Adjacent to Kachemak Bay State Park.
Low Area is moderately developed, primarily recreational homesite High human use area.	
Moderate	Numerous well described archeological sites on parcel.
Moderate	Within resource use area of Port Graham and English Bay.
	Moderate Low High Low Moderate Moderate

ECOLOGICAL SIGNIFICANCE:

China Poot Bay is a highly productive estuary which provides habitat for water birds, anadromous fish, and intertidal marine life. It receives very high recreational use, has significant archeological sites, and is highly visible from Homer and adjacent marine waters. This site also provides recreational access to a high use sport fishery at adjacent Leisure Lake.

ADJACENT LAND MANAGEMENT:

This parcel is adjacent to Kachemak Bay State Park; the park receives a significant amount of recreational use by residents of Anchorage and the Kenai Peninsula and is also an important tourist attraction. The parcel is also adjacent to other Seldovia Native Association lands.

IMMINENT THREAT/OPPORTUNITY:

This parcel is proposed for logging in 1993. Permit approvals are pending additional information, Corps of Engineers Public Notice, and ACMP review.

PROTECTION OBJECTIVE:

1) Maintain water quality of the estuary and associated riparian habitats for anadromous fish; 2) Maintain bald eagle and marbled murrelet nesting habitat; 3) Maintain recreational opportunities and scenic values; and 4) Maintain public access to Leisure Lake.

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HABITAT PROTECTION / ACQUISITION PARCEL SUMMARY

USEFUL PROTECTION TOOL(S):

Timber acquisition. Fee simple purchase. Conservation easement. Cooperative management. Acquire public access.

RECOMMENDED ACTION:

Seldovia Native Association is interested in selling interests in this parcel to protect habitat and service values. Timber assets are owned by Koncor and values are assessed to be moderate to low. Habitat and service values are moderate to high. Discussions should begin with SNA to provide interim, and eventually, long-term protection for habitat and service values.

- 1. Parties other than landowner may own partial rights (eg. timber, minerals).
- 2. Estimated acreage held by the owner in the spill area.
- 3. Estimated area to be affected by imminent developement activity.

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HABITAT PROTECTION / ACQUISITION PARCEL SUMMARY

r 	1			
parcel #: CIK 02	PARCEL NAME: Sadie Cove			· .
'LANDOWNER: Seldovia Native Association		parcel acreage: 400	² TOTAL ACREAGE:	³ AFFECTED ACREAGE:
INJURED SPECIES / SERVICE	CIES / POTENTIAL FOR COMMENT BENEFIT		OMMENT	
Anadromous Fish	Moderate		Two cataloged Pink and chun	l anadromous streams. n spawning.
Bald Eagle	Moderate		Three documented nest sites on parcel.	
Black Oystercatcher		None		
Common Murre		None		
Harbor Seal		Low	Foraging in Sa	adie Cove estuary.
Harlequin Duck		Low	Possible nestir riparian habita Potential feedi and estuary.	ng in upper reaches of at (adjacent to parcel). ng in lower stream
Intertidal/subtidal biota	Low		Species divers relatively low Cove.	ity and richness at head of Sadie
Marbled Murrelet	Low		No evidence of use of this parcel.	
Pigeon Guillemot		None		
River Otter	Low		Probable feeding in adjacent marine habitat and stream.	
Sea Otter	Low		Occasional use of Sadie Cove for feeding and shelter.	
Recreation/Tourism	Moderate		Recreational cabins and boating. High scenic values.	
Wilderness	Low		Area is moder primarily recre Moderate evid	ately developed, eational homesites. lence of human use.

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HABITAT PROTECTION / ACQUISITION PARCEL SUMMARY

Cultural Resources	None No evidence.			
Subsistence	Low	Waterfowl, marine mammals		
ECOLOGICAL SIGNIFICANCE: Sadie Cove is a moderately productive estuary which provides habitat for anadromous fish and overwintering waterfowl. It is a high use recreational area easily accessible by boat from Homer.				
ADJACENT LAND MANAGEMENT: This parcel is adjacent to Kachemak Bay State Wilderness Park; the park receives a significant amount of recreational use by residents of Anchorage and the Kenai Peninsula and is also an important tourist attraction. The parcel is also adjacent to Seldovia Native Association lands.				
IMMINENT THREAT/OPPORTUNITY: This area is proposed for lo	bgging in 1993.			
PROTECTION OBJECTIVE: 1) Maintain water quality of the estuary and associated riparian habitats for anadromous fish.				
<u>USEFUL PROTECTION TOOL(S):</u> Timber acquisition. Fee simple purchase. Conservation easement. Cooperative management.				
RECOMMENDED ACTION:				
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2. Total acreage held by the owner in the spill area.

3. Actual area to be affected.

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HABITAT PROTECTION / ACQUISITION PARCEL SUMMARY

parcel #: CIK 03	PARCEL NAME: Jakolof Bay		
¹ LANDOWNER: Seldovia Nativ Association	ve parcel acreage: 500	² TOTAL ACREAGE:	³ AFFECTED ACREAGE:
INJURED SPECIES / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Moderate	One mainstem cataloged as a chum, sockeye spawning and Varden.	and four tributaries nadromous. Pink, e. and coho salmon rearing, Dolly
Bald Eagle	Low	One nest site a Probable feedi estuary.	adjacent to parcel. ing in stream and
Black Oystercatcher	None		
Common Murre	None		·
Harbor Seal	Low	Feeding in Jak	colof Bay and estuary.
Harlequin Duck	Low	Possible nestir riparian habita lower stream a	ng in upper reaches of it. Potential feeding in and estuary.
Intertidal/subtidal biota	Moderate	Jakalof Bay kr productive for marine inverte	nown to be highly shellfish and other brates
Marbled Murrelet	Low	Possible feeding	ng in Jakolof Bay.
Pigeon Guillemot	None		
River Otter	Low	Probable feedi habitat and str	ng in adjacent marine eam.
Sea Otter	Low	Use Jakalof Bashelter.	ay for feeding and
Recreation/Tourism	Moderate	Road accessibl Recreational u Public boat ha Recreational b	le from Seldovia. se of Rocky Bay road. rbor in Jakolof Bay. oating and fishing.

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HABITAT PROTECTION / ACQUISITION PARCEL SUMMARY

Wilderness	None	High evidence of human use (road, sawmill, boat harbor, mariculture)		
Cultural Resources	Unknown			
Subsistence	Low	Shellfish, waterfowl		
ECOLOGICAL SIGNIFICANCE: Jakolof Bay is a productive estuary which provides habitat for anadromous fish and overwintering waterfowl. It is a high use recreational area easily accessible by road from Seldovia.				
ADJACENT LAND MANAGEMENT: This parcel is adjacent to Kachemak Bay State Wilderness Park; the park receives a significant amount of recreational use by residents of Anchorage and the Kenai Peninsula and is also an important tourist attraction. The parcel is also adjacent to Seldovia Native Association lands.				
IMMINENT THREAT/OPPORTUNITY: This area is proposed for logging in 1993. It has an existing road access, sawmill, and log transfer facility in place.				
PROTECTION OBJECTIVE: 1) Maintain water quality of the estuary and associated riparian habitats for anadromous fish; and 2) Maintain areas recreational values and recreational access.				
USEFUL PROTECTION TOOL(S): Timber acquisition. Fee simple purchase. Conservation easement. Cooperative management.				
RECOMMENDED ACTION:				

1. Rights other than title may be held by other parties.

2. Estimated acreage held by the owner in the spill area.

3. Estimated area to be affected by imminent development activity.

12/10/92 DRAFT



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Exxon Valdez Oil Spill Trustee Counci

645 G Street, Anchorage, Alaska 99501 Phone: (907) 278-8012 Fax: (907) 276-7178

Interim Administrative Director



EXXON VALDEZ OIL SPILL TRUSTER COUNCIL ADMINISTRATIVE RECORD -

TO: Trustee Council

THRU:

Restoration Team erome Montagine Jerome Montagué FROM: Chairman 1993 Work Plan Work Group

Dave Gibbons Mug

New Projects SUBJECT:

DATE:

December 10, 1992

Per your request, attached is a list of new projects that the public has requested to be added to the 1993 Work Plan.

Attachment

List of Ideas for projects that did not appear in the Draft 1993 Work Plan. This results from a review of 217 public comment letters received.

- 1. Study natural variability. (2)
- 2. 93006, 93007-new proposal to manage these with Chugach Alaska Corp.
- 3. 93008 Chugach Resource Management Agency created.
- 4. Address the continued loss of services. (2)
- 5. Any upland and intertidal archaeology should be coordinated with Chugach.
- 6. Archaeological Museum.
- 7. Periodic population surveys of wildlife.
- 8. Spend 60 million on habitat acquisition.
- 9. Environmental monitoring in Cook Inlet.
- 10. Prevent further degradation of area and let nature recover unaided.
- 11. Build support facilities.
- 12. Chenega Bay old village site restoration project.
- 13. Cultural heritage preservation and perpetuation.
- 14. Tatilek Ferry Terminal. (2)
- 15. Tatilek Breakwater. (2)
- 16. Chenega Bay Marine Service Center.
- 17. Endowment for aquatic resources.
- 18. Eliminate foxes, rats and other predators. (2)
- 19. Chugachmiut Cultural Heritage Preservation and Perpetuation Project.
- 20. Coded wire salmon tag studies.
- 21. Coded wire tag recovery.

- 22. Coordinated Recreation Restoration Planning and Assessment
- Coordinated contract for 1993 restoration work projects With the Pacific Rim Village Coalition. (2)
- 24. Develop a plan to remove remaining oil and garbage from cleanup, time critical.
- 25. Develop long term monitoring of recovery and to establish baseline.
- 26. Establish endowment. (3)
- 27. Ahkiok Village Lands Analysis
- 28. Long-term ecosystem wide environmental monitoring. (2)
- 29. Establish local response depots monitoring program escort vessels for Cook Inlet.
- 30. Near shore response.
- 31. Fund buyback of Kachemak Bay State Park. (2)
- 32. Fish Hatcheries.
- 33. Herring (time critical).
- 34. Monitoring program
- 35. Fund Port Graham pink salmon hatchery. (2)
- 36. Monitor Incidental Killing of Marine Mammals.
- 37. Nanwalek Sockeye salmon enhancement program. (2)
- 38. Reward system for reporting animal harassment. (3)
- 39. Native Village of Eyak Habitat acquisition project.
- 40. Remove tarballs from beaches.
- 41. Cleanup oil spill debris, garbage.
- 42. Restoration of beaches still oiled.
- 43. Spill prevention, monitoring, endowment.
- 44. Pacific herring study. (3)
- 45. Restore cockles from Bear Cove. (2)
- 46. Restore clams on Passage Island, Port Graham, Nanwalek, Port Chatham, Dogfish Bay.(29)

- 47. Clean beaches for recreational use.
- 48. Fisheries Industrial Technology Center Kodiak Native Assoc.
- 49. Salmon studies.
- 50. Recreation resource and service restoration.
- 51. More spending on wild salmon and other wild fish stock.
- 52. Nationwide media plan be developed to educate public.
- 53. Support land acquisition outlined in HB411.

December 10, 1992

Projects Still Requiring NEPA Compliance

Lead Agene	<u>Federal</u> c <u>y</u>	-		Fi N	unding eeded
USDA	A				
	93024 93016	-	Coghill Lake (needs EA) Chenega Bay Chinook & Silver Salmon (needs EA; ADE&G)	\$ \$	0 5,000
	93032	-	Pink and Cold Creek Pink Salmon Restoration (needs EA; ADF&G)	\$	5,000
NOA	A				
	93019 93030 93031	-	Chugach Mariculture Project (needs EA; ADF&G) Red Lake Restoration (needs EA; ADF&G) Red Lake Mitigation for Red Salmon Fishery (needs	\$ \$ \$	30,000 8,000 15,000
	93038 93046		Shoreline Assessment (needs EA; ADEC) Harbor Seals (needs EA; ADF&G)	\$ \$	0 3,000
FWS					
	93011	-	Develop Harvest Guidelines to Aid Restoration of River Otters and Harlequin Ducks (categorical exclusion; no funds)	\$	0
	930 26	-	Fort Richardson Hatchery Water Pipeline (\$70K (ADF&G) and \$14K (FWS) for EA only; \$200K (ADF&G) and \$40K (FWS) for EIS)	\$ \$2	84,000 oi 40,000

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RESTORATION PLANNING WORK GROUP EXXON VALDEZ OIL SPILL OFFICE 645 "G" STREET ANCHORAGE, ALASKA 99501

EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL ADMINISTRATIVE RECORD

DATE: December 4, 1992

THRU:Dave Gibbons MultipleInterim Administrative Director
Restoration TeamFROM:Join Strand, Chair
(Bestoration Planning Work Group)

Trustee Council

SUBJECT: Draft Alternative Themes

TO:

Attached for your review and comment are the Planning Group's most recent version of draft alternative themes. These draft alternative themes were discussed by the Restoration Team at their November 6 meeting. The changes suggested by the Restoration Team have been incorporated.

Also discussed at the November 6 Restoration Team meeting was the issue of identifying a preferred alternative. The Planning Group recommends that the plan alternatives be reviewed by the public before a preferred alternative is selected. All of the alternatives are good; each has advantages and disadvantages. The Planning Group would be hard-pressed to justify a preference without the benefit of public comment. At the Restoration Team meeting we learned that NEPA does not require that a preferred alternative be identified unless the decision-making body has a preference. Consequently, we intend to fully describe and analyze all six proposed alternatives and submit them to the Trustee Council for review before releasing them to the public. If the Trustee Council has a clear preference at that time, it should be identified in the draft plan; if not the plan would be released without a preferred alternative.

Since the November 6 meeting there has been further discussion of this issue in terms of the need to identify an initial "proposed action." In our view, the initial proposed action is to adopt a restoration plan that consists of the most favorable features of one or several of the proposed plan alternatives.

The process used to construct alternatives for the Draft Restoration Plan was recently subjected to peer review. Peer reviewers found it generally sound but suggested a few refinements. One of the major suggestions was to explicitly reflect a level of certainty in our estimates of injury and assessments of the effectiveness of restoration

Trustee Council

activities. Another suggestion was to enhance our information on services, e.g., recreation, subsistence, etc. Accordingly, we intend to modify the options assessment decision process (including database), adding to our database where necessary, and continue using it to generate alternatives. This effort is underway and a draft should be complete by mid-December and ready for review in early January. Soon after, we will have for your review all pertinent restoration options for each alternative.

As an aid to your review of the attached table, I have developed the following brief descriptions of the six candidate themes. They are:

Alternative 1 is the no action (natural recovery) alternative. Alternative 2 is a protection alternative. Alternatives 3 through 6 vary according to the nature and certainty of injury, level of knowledge of recovery, the perceived effectiveness of restoration techniques, and where restoration will be implemented; ie., inside or outside the spill-affected area.

Alternatives 3 and 4 are limited to resources injured at the population level and injured services. However, Alternative 3 takes the most limited approach; restoration is considered only where there is a high certainty of success and knowledge of the status of recovery. Also, restoration will be limited to the spill-affected area. Alternative 4 differs from Alternative 3 by considering restoration for injured resources and services even if we do not have a clear, substantiated understanding of rate and degree of recovery. In Alternative 4, replacement and acquisition of equivalent resources and services options also can be considered, even outside the spill-affected area.

Alternatives 5 and 6 address <u>all</u> injured resources and services and include enhancement. However, in Alternative 5 restoration can only be undertaken within the spill area whereas in Alternative 6, restoration may be undertaken outside the spillaffected area. Alternative 5 will include only the most effective restoration techniques. Alternative 6 takes the most comprehensive approach. All reasonable actions including enhancement are taken to restore injured resources and services, even those where injury and our knowledge of recovery are not well documented.

Once we have your concurrence on the general approach to constructing alternatives we will further elaborate on each alternative by addressing the following subjects:

- 1. Restoration options
 - a. By resource or service
 - b. Timing and priority
- 2. Monitoring Program
- 3. Evaluation

- a. Effect on recovery of resource or service (time and extent)
- b. Ecosystem effects
- c. Geographic distribution (including maps)
- d. Social benefits (including economic impact)
- e. Cost and methods of estimation or derivation
- f. Certainty of the above factors

We would appreciate all comments, but especially responses to the following questions:

- 1. <u>Variables</u>: The following variables have been used to construct the draft alternative themes. Do you agree with the choice and use of these variables? If not; what variables would you add or delete?
 - a. Injury
 - b. Knowledge of recovery
 - c. Effectiveness of restoration activities
 - d. Geographic constraint
- 2. <u>Objectives</u>: We assume that the restoration process will address the following objectives, but we would like your concurrence or other suggestions.
 - a. Recovery to pre-spill conditions
 - b. Protection from further degradation or decline [relationship to habitat protection]
 - c. Cost effectiveness
 - d. Social benefits (education, economic stability)
 - Geographic distribution
 - (1) Equal distribution
 - (2) Distribution where it will do the most good
 - (3) Irrelevant
 - f. Benefit to the entire ecosystem, not just to single species

We need concurrence that we are using the right variables and that these themes will provide a reasonable range of alternatives. Thank you.

Attachment

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DRAFT ALTERNATIVE THEMES 11/06/92

	Alternative 1 Natural Recovery	Alternative 2 Protection	Alternative 3 Limited Restoration	Alternative 4 Moderate Restoration	Alternative 5 Expanded Restoration	Alternative 6 Comprehensive Restoration
Theme ¹	No action other than monitoring and normal agency management.	Protect injured resources and services from further degradation or disturbance in order to complement natural recovery.	Use only the most effective techniques to protect and restore injured services and resources injured at a population level.	Allow for all reasonable actions to protect and restore injured services and resources injured at a population level.	Use only the most effective techniques to protect, restore, and enhance all injured resources and services.	Allow for all reasonable actions to protect, restore, and enhance all injured resources and services.
Variables ² : 1. Injury	N/A	All injured resources and services. Includes sublethal effects and injuries not well documented.	Limited to resources injured at a population level and injured services.	Limited to resources injured at a population level and injured services.	All injured resources and services. Includes sublethal effects and injuries not well documented.	All injured resources and services. Includes sublethal effects and injuries not well documented.
2. Knowledge of Recovery	N/Å	Known and unknown.	Known.	Known and unknown.	Known and unknown.	Known and unknown.
3. Effectiveness of Restoration Activities	N/A	Most certain to prevent further degradation or decline.	Most certain to produce the greatest improvement in rate and/or degree of recovery or prevent further degradation or decline.	Reasonably certain to produce at least moderate improvement in rate and/or degree of recovery or prevent further degradation or decline.	Most certain to produce the greatest improvement in rate and/or degree of recovery or prevent further degradation or decline.	Reasonably certain to produce at least moderate improvement in rate and/or degree of recovery or prevent further degradation or decline.
4. Geographic Constraint	N/A	Within EVOS area only.	Within EVOS area only.	May include areas outside EVOS.	Within EVOS area only.	May include areas outside EVOS.
Settlement Characteristics	N/A	Direct Restoration and Replacement.	Direct Restoration	Direct Restoration, Replacement, and Acquisition of Equivalent Resources/Services	Direct Restoration, Replacement, Acquisition of Equiv. Resources/Services, and Enhancement	Direct Restoration, Replacement, Acquisition of Equiv. Resources/Services, and Enhancement

¹All alternatives include monitoring.

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²Major variables used to construct alternatives. Other factors have been considered in the evaluation of options.

- 5. Public Involvement
 - a. Public scoping
 - b. Public Advisory Group
 - c. Public comments to <u>Restoration Framework</u>
 - d. other
- C. Authorities Governing Restoration Activities Swenson
 - 1. Civil Settlement
 - a. Amount and distribution of settlement
 - Definition of restoration: injury assessment, restoration, replacement, enhancement of natural resources, acquisition of equivalents, and monitoring
 - c. Spending guidelines in settlement
 - 1. Geographic limits
 - 2. Trustee organization
 - 3. Resources and services included
 - 4. Requirement for public participation
 - d. Decision-making process for expenditures
 - 1. Settlement guidance
 - 2. Summary of TC operating procedures
 - 3. Annual petition to court for funds
 - e. Re-opener clause
 - 2. Criminal Settlement
 - a. Criminal Fines
 - 1. Amount and distribution of fines
 - b. Restitution Payments
 - 1. Definition of restoration: replacement and enhancement of affected resources, acquisition of

equivalent resources and services, and long-term environmental monitoring and research programs directed to the prevention, containment, cleanup and amelioration of oil spills

- 2. State and Federal spending guidelines in settlement
 - a. Geographic limits
 - b. Resources and services included
 - c. Requirements for public participation
- 3. Update on State/Federal spending and plans
 - a. State
 - b. Federal
- D. Environmental Compliance
 - 1. Relationship of NEPA process to the draft Restoration Plan
 - 2. NEPA Compliance for specific restoration actions
 - 3. Other laws, regulations, treaties, executive orders, and consultation compliance for specific restoration actions (this section will provide a brief overview)
- II. Pre-Spill Existing Environment (this section will summarize the information prepared for the Draft Environmental Impact Statement)
 - A. Geographical description of area affected by the oil spill
 - B. General description of the affected communities
 - C. Prince William Sound, Gulf of Alaska and area before the spill
 - 1. Natural resources
 - 2. Socioeconomic and subsistence uses and needs

3. Cultural and anthropological resources

III. Injured Resources and Services Rabinowitch/Loeffler

- A. Background: Guidance, Definitions and Criteria
 - 1. Explanation of settlement guidance for injury
 - 2. Definitions of natural resources and services
 - 3. Definition of injury to natural resources
 - 4. Definition of injury to services
 - 5. The criteria
 - a. Introduction to criteria; their development and use
 - b. Changes from those presented in the Restoration Framework
 - c. Application of the criteria
- B. Conclusions Loeffler/Spies
 - 1. Marine Mammals
 - a. Harbor Seals
 - (1) Summary
 - (a) Injury: description of the nature of the injury, its severity, and our certainty. Also, for species, include comparison with pre-spill population, and other useful information.
 - (b) Recovery: status of recovery: population declining, recovering, stable, unknown, continuing effects. May not be definable for certain services.
 - (c) Summary of restoration options for each resource or service.
 - (2) Background Information: for many resources or services, there will be some background concerning habitat, behavior, or how a resource is managed that is

necessary to understand either the injury, current knowledge of recovery, or some of the options. If the information is extensive enough, it will be set out in a special section.

- (3) Restoration Options: a summary of how each restoration option affects each resource or service.
- (4) Graphics: map showing one of the following: where the injury was, where the habitat is, where the resource is. (A map may not be appropriate for all resources and services.)
- b. Sea Lion (as described above)
- c. Sea Otter (as described above)
- d. Killer Whale (as described above)
- e. Humpback Whale (as described above)
- 2. Terrestrial Mammals
 - a. Sitka Black-tailed Deer (as described above)
 - b. Black Bear (as described above)
 - c. Brown Bear (as described above)
 - d. River Otter (as described above)
- 3. Birds

 $\frac{1}{2}$

- a. Bald Eagle (as described above)
- b. Peale's Peregrine Falcon (as described above)
- c. Common Murre (as described above)
- d. Marbled Murrelet (as described above)
- e. Storm Petrel (as described above)
- f. Black-legged Kittiwake (as described above)
- g. Pigeon Guillemot (as described above)
- h. Glaucous-winged gull (as described above)

- i. Other Marine Birds (as described above)
 j. Harlequin Duck (as described above)
 k. Other Sea Ducks (as described above)
 l. Black Oystercatcher (as described above)
 - m. Other Shorebirds (as described above)
 - n. Other Birds (as described above)
- 4. Fish
 - a. Pink Salmon (as described above)
 - b. Sockeye Salmon (as described above)
 - c. Pacific Herring (as described above)
 - d. Rockfish (as described above)
 - e. Dolly Varden (as described above)
 - f. Cutthroat Trout (as described above)
- 5. Shellfish (as described above)
- 6. Intertidal/Subtidal (as described above)
- 7. Services
 - a. Archaeological sites and artifacts (as described above)
 - b. Recreation (as described above)
 - c. Subsistence (as described above)
 - d. Intrinsic values (as described above)
 - e. Wilderness (as described above)

IV. Restoration Options

- A. Development of Restoration Options Klinge
 - 1. Definition of restoration options
 - 2. Development of restoration options
- B. Evaluation Process

- 1. Settlement Guidance
- 2. Purpose and use of the criteria
 - a. Changes from those used in the <u>Restoration</u> <u>Framework</u>
- C. Application of criteria
 - 1. Development of alternatives
- V. Restoration Plan Alternatives Loeffler
 - A. Definition of an alternative?
 - 1. Description, policies, goals
 - 2. Options
 - 3. How options will change as we get more information
 - B. Why or why not a preferred alternative?
 - C. Overall Management goals (and, if appropriate, objectives) for the Spill Area
 - D. Alternatives Loeffler/Gorbics/Klinge/Gilbert

Alternative 1: (title)

- 1. Theme, including basic goals and objectives of the alternative.
- Resources Addressed and options proposed that address each resource (may include some or all of the following):
 - a. Marine mammals
 - (1) Harbor seals
 - (2) Sea lions
 - (3) Sea otters
 - (4) Killer Whales
 - (5) Humpback Whales
 - b. Terrestrial Mammals
 - (1) Sitka black-tailed deer

- (2) Black Bear
- (3) Brown Bear
- (4) River Otter

c. Birds

- (1) Bald Eagle
- (2) Peale's Peregrine Falcon
- (3) Common Murre
- (4) Marbled Murrelet
- (5) Storm Petrel
- (6) Black-legged Kittiwake
- (7) Pigeon Guillemots
- (8) Glaucous-winged Gull
- (9) Other Marine Birds
- (10) Harlequin Ducks
- (11) Other Sea Ducks
- (12) Black Oystercatcher
- (13) Other Shorebirds
- (14) Other Birds
- d. Fish
 - (1) Pink Salmon
 - (2) Sockeye Salmon
 - (3) Pacific Herring
 - (4) Rockfish
 - (5) Dolly Varden
 - (6) Cutthroat Trout
- e. Shellfish

f. Intertidal/Subtidal

g. Vegetation

- 3. Services addressed (may include some or all of the following):
 - a. Archaeological sites and artifacts
 - b. Recreation
 - c. Subsistence
 - d. Intrinsic values
 - e. Wilderness
- 4. Monitoring Program
- 5. Evaluation
 - a. Effect on recovery of resource or service (time and extent)
 - b. Ecosystem effects
 - c. Geographic distribution (include maps)
 - d. Social benefit (include economic impact)
 - e. Cost
 - f. Certainty of the above evaluation factors
 - g. Timing and priority

Alternative 2 (same as above)

Alternative 3 (same as above)

Alternative 4 (same as above)

Alternative 5 (same as above)

Alternative 6: No Action (same as above except for (3)

- E. Comparison of alternatives Rabinowitch/Gilbert
- VI. Implementation Process for Life of the Settlement
 - A. Annual Work Plans Fraker

- 1. Contents
- 2. Schedule
- 3. Environmental Compliance
- 4. Public Review

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- B. Funding mechanisms Brodersen/Loeffler
 - 1. Current Mechanisms
 - a. Describes current Court Registry Investment System (CRIS) mechanisms
 - b. Forecast of availability (use) of funds
 - 2. Endowment
 - a. Introduction (Why an endowment)
 - b. Questions
 - (1) Purposes (Different purposes for an endowment)
 - (2) Governing (Different governing structures)
 - (3) Endowment Life (Fixed life v. perpetual)
 - (4) Endowment Management
 - (5) Federal and State Legal Considerations
 - (6) Examples of Alaskan Endowments
 - c. Endowment Proposals
 - d. Addendum: explanation of financial assumptions
- D. Monitoring/Evaluation (Comprehensive Restoration Monitoring Program) Strand/Fraker
 - 1. Conceptual Monitoring Design
 - a. Management structure;
 - b. Expectations and goals;
 - c. Study strategy including conceptual model to determine monitoring and related project priorities;

- d. Resources and services to monitor;
 - (1) Natural Resources (by species)
 - (a) Marine mammals
 - (b) Terrestrial mammals
 - (c) Marine birds
 - (d) Other birds
 - (e) Fish
 - (f) Shellfish
 - (g) Coastal habitat
 - (2) Other Resources and Services
 - (a) Archaeological sites and artifacts
 - (b) Recreation
 - (c) Subsistence
 - (d) Intrinsic values
 - (e) Wilderness
- 2. Technical Monitoring Design
 - a. The boundaries (spatial, temporal, ecological, technical, social, political) of the intended monitoring program;
 - b. The locations (fixed and rotating) where monitoring will be conducted;
 - c. Technical design (how and when data will be collected, analyzed, interpreted and reported) for each monitoring component;
 - d. Data management system to support needs of Trustees and other decision makers;
 - e. Quality assurance program;
 - f. Cost estimates for each monitoring component; and
 - g. Strategy for review and update.

- 3. Implementation and Management
 - a. Audits of plans, projects and related activities;
 - b. Audits of data and procedures to determine compliance with established QA/QC plans;
 - c. Annual meeting; and
 - d. Publication of annual and other progress reports.
- E. Public participation/Public education Kehrer/Evans
 - 1. Introduction
 - a. Settlement guidance
 - b. Additional legal requirements: NEPA, Americans with Disabilities Act, Federal Advisory Committee Act, Alaska Open Meetings Act
 - 2. Program goals
 - 3. Public participation/education strategy
 - a. PAG: origin, purpose, operational procedures, future expectations
 - b. Information & Education Programs: compliance with settlement and other legal mandates, OSPIC, NRDA reports, newsletter, education efforts, annual work plans, TC meetings
- F. Amendments to the final <u>Restoration Plan</u> Fraker
 - 1. Major revisions
 - 2. Minor amendments

Appendices

A. Restoration options Various authors

Summary of options and suboptions

- B. Habitat Acquisition Process Weiner/C. Gilbert
- C. Charter of the Public Advisory Group
 - 1. Public Advisory Group charter Editor

- 2. List of PAG principal interests Editor
- 3. List of current PAG members and their affiliation Editor

D. List of other publications Editor

- E. Court settlement documents Editor
- F. Glossary Editor/Swenson

Brochure Loeffler

A brochure will accompany the Draft Restoration Plan. The intent is to provide the public with a more reader-friendly summary (4page newspaper insert) that can be read by those not inclined to read the entire 350 page document. The brochure will also be greater numbers to facilitate a wider printed in public of intended distribution distribution than the the Draft Restoration Plan. It also will have a tear-out, pre-addressed The objective is to increase opportunity detailed comment sheet. for public comment.

CONTENTS OF BROCHURE

Public Meetings -- Where & When

- I. Introduction
 - A. Background
 - 1. The spill
 - 2. Activities to date
 - B. The planning process
 - C. How you (the public) can be involved
 - D. Relationship to EIS
 - E. What the plan will not do
 - F. Summary of Implementation

II. The Settlements

- A. Criminal & Civil
- B. Spending Guidelines
- III. Summary of Injury, Recovery, and What, if anything, can be done to help. For each injured resource and service, a description of injury by the spill, status of recovery, and what techniques are available, if any, to aid recovery, and the effectiveness of those techniques. Land acquisition will be included in this description (as a technique to aid recovery and avoid further degradation).

IV. Alternatives

A. Introduction

- 1. Options
- B. Goals, objectives, and policies common to all alternatives
- C. Description of alternatives (probably one newspaper page per alternative). One of which will be the no-action alternative; another will be the preferred alternative.
- V. Comparison of alternatives
- VI. Implementation
 - A. Annual Work Plans
 - 1. Implementation document
 - 2. Annual solicitation of ideas
 - 3. Annual public review of draft plans
 - 4. Timing of annual plans
 - B. Operations/Administration
 - 1. Settlement Guidance
 - 2. Organization (including organization) chart
 - a. State of Alaska Trustees
 - b. Federal Trustees
 - c. Trustee Council
 - d. Restoration Team
 - e. Work Groups
 - C. Funding Mechanisms
 - 1. Current Mechanisms
 - a. Describes current Court Registry Investment System (CRIS) mechanisms
 - b. Forecast of availability (use) of funds
 - 2. Endowment
 - a. Introduction (Why an endowment)

- b. Questions
 - 1. Purposes (Different purposes for an endowment)
 - 2. Governing (Different governing structures)
 - 3. Endowment Life (fixed life v. perpetual)
 - 4. Endowment Management
 - 5. Examples of Alaskan Endowments

c. Endowment Proposals

d. Addendum: explanation of financial assumptions

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11.1.11 64



TRUSTEE COUNCIL ADMINISTRATIVE RECORD



Exxon Valdez Oil Spill Operations



Table of Contents

- I. FOSC Review Process
- II. Settlement Funding (Shoreline)
- III. CG Process For Reviewing, Tracking and Approving CWRs
- IV. Exxon Processing For Development and Reviewing CWRs
- V. Monitoring Cost Sensitive Indicator To Ensure Costs Are On Track
- VI. Protocol and Addendum Executive Summary For Financial Review



Attachment 2.4.1 MAYSAP REVIEW PROCESS





DIA(3)

PROPOSAL REVIEW PROCESS



CLEANUP WORK REQUESTS (CWR) APPROVAL/HANDLING PROCESS



MAYSAP

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MAY SHORELINE ASSESSMENT PROGRAM

Report #12

5/20/91

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MAYSAP SURVEY PROGRESS REPORT Through 5/19/91

	PWS		GOA		TOTAL		
	ACTUAL	PLAN	ACTUAL	PLAN	ACTUAL	PLAN	
TOTAL SUBDIVISIONS SURVEYED	341	291	74	55	415	346	ž
SUBDIVISIONS ON 5/19/91	19	14	7	6	26	20	

TEAMS IN THE FIELD ON 5/19/91			
	PWS	GOA	
VESSEL BASED	4	1	
HELICOPTER BASED	0	1	

SHORELINE OILING (LINEAR MILES)					
	PWS	GOA	TOTAL		
WIDE	0.9	0.00	0.9		
MODERATE	3.8	0.00	3.8		
NARROW	4.5	0.07	4.6		
VERY LIGHT	12.7	0.55	13.2		
NO OIL	64.5	5.7	70.2		
TOTAL	86.3	6.3	92.6		
SUBDIVISION S MAPPED	216	17	233		

COMMENTS:

1991 MAYSAP SUBDIVISIONS SURVEYED/ASSESSED Through 5/19/91



PROTOCOL FOR A FINANCIAL REVIEW OF FOSC APPROVED EXPENDITURES BY EXXON, USA ON THE T/V EXXON VALDEZ OIL SPILL FOR THE PERIOD

JANUARY 1, 1991 THRU MARCH 31, 1992

Objective: To perform a financial review of Exxon's supporting documents for expenditures made by Exxon and pre-approved by the Coast Guard Federal On Scene Coordinator.

A. BACKGROUND:

From 01 January 91 through 12 March 91, the Exxon Valdez Settlement Agreement allows Exxon to recover costs relating to the cleanup for an amount not to exceed \$4,000,000. From 13 March 91 to the present, the FOSC has pre-approved Exxon's estimated cleanup expenses. Under the Settlement Agreement, Exxon will take a credit for expenditures made during these two periods against their 01 December 92 payment to the Trustees. These expenses are referred to as the "X" fund in the Settlement Agreement. After several meetings, the staffs from FOSC, G-MEP, G-LCL, G-CFM, NPFC(cf) and MLCPAC(f) concluded that a financial review of the "X" fund should be done to examine actual expenses. A review of "actuals" vs. "estimated" is consistent with good business practices. Accordingly, the Federal On Scene Coordinator will examine the actual costs and supporting documentation for the 1991 cleanup.

Paragraph 8(b) of the Settlement Agreement provides for an audit by the governments of Exxon expenditures incurred after 01 January 1991. This financial review is for the purpose of examining actual cost records for the FOSC and not necessarily to comply with Paragraph 8(b).

B. REVIEW SCHEDULE:

1. The review will be performed at Exxon U.S.A.'s headquarters at 4550 Dacoma, Houston, TX 77092 during the period 07 April 92 through 15 April 92.

2. A Coast Guard team consisting of three members will perform the review. The team members will be:

CAPT Ralph Anderson, MLCPAC (f), Chief, Finance Division Mr. Al Thuring, NPFC(cf-1), Chief, Fund Operations CWO4 Larry Porter, FOSC(f&s), Fiscal & Supply Officer

C. SCOPE OF REVIEW:

1. The review will cover expenditures incurred from 01 January 91 through 12 March 1991 (a maximum of \$4,000,000), and for the period 13 March 91 through 31 March 92. At the conclusion of the review, a recommendation will be made for a review covering the period 01 April 92 through 31 October 92. A second review, if performed, could be accomplished after the October 92 accounting period cutoff which will be on or about 08 November 92. This will provide enough time for Exxon to prepare for the scheduled 01 December 92 payment.

2. Exxon costs for the Valdez spill, since 01 January 91, are segregated into three categories: "Law Group," "Asset and Disposal" and "Operations." The "X" fund referred to in the Settlement Agreement relates only to the actual cost of Operations and that is the only category to be reviewed.

D. STATEMENT OF WORK:

1. There are approximately 9,000 invoices totalling approximately \$30,000,000 subject to review, (see Enclosure 1). Labor transactions with Detail Codes of 143, 315, 316, 1421, 1422, 1424, 3401, 3402, 3511 and 3512, (see Enclosure 2), will be grouped separately from other invoices and each group will then be sampled in each of the cost levels, as shown in Enclosure 1, to determine compliance with pre-approved cost proposals. Non-payroll documents will be selected based upon the following for each Cleanup Work Request (CWR).

a. CWRs reviewed in their entirety:

(1) #3 Berm Relocation

(2) #4 Subsistence Study

(3) #5 CG Housing

(4) #6 NOAA

(5) #7 Inipol Purchase

(6) #8 Eagle Study

(7) #9 Seal Island

(8) #11 Bioremediation

b. refer to Enclosure 3 for the sampling criteria for CWRs #1, 10, 13 and 14.

c. refer to Enclosure 4 for the number of invoice samples to be taken in each cost category of labor documents and invoices for CWRs #1, 10, 13 and 14.

d. issues that will be addressed when reviewing labor documents are:

(1) the policy statement for charging Exxon company personnel to the project

(2) the costing of time sheets based on the number of hours worked each day, (such as, 8 hours one day, 16 hours the next)

(3) the location of personnel if not in Alaska

(4) consistency of reporting from location to location

(5) were people doing what they were employed to be doing

2. A judgmental sampling of invoices meeting the following criteria will also be performed.

a. <u>unusual vendor</u>: such as a payment to a vendor or type of vendor which does not appear to be in the "normal" range of a particular activity.

b. <u>invoice dates</u>: such as invoices dated prior to January, 1991. Invoices will be reviewed to determine if services or products were rendered before or after 13 March 91 to account for costs in the proper period.

(3)
c. <u>unusual invoice price for a vendor</u>: such as a noticeable difference in the amount that a given vendor normally would reflect on an invoice.

d. <u>credit invoices</u>: all credit invoices in excess of \$1,000 will be reviewed to ensure proper handling.

e. <u>Exxon's Detail Codes 338 and 345</u>: the titles of these two codes are "Contributions" and "Grants" respectfully.

4



TRANSACTIONS (QUANTITY AND COST) BY CWR

PROGRAM NAME		INVOICES >\$10,000	INVOICES \$1,001 - \$10,000	INVOICES \$101 - \$1,000	INVOICES \$0-\$100	CREDITS	TOTAL	
BEFM	# OF INV>	4	2				6 93 107	
	⇒ AMOUNI>	04,/39	0,300				93,107	
BIO	# OF INV>	. 9	12	8	5		34	/ ~~.
	\$ AMOUNT->	489,123	45,897	3,057	154		538,231	
CLEAN	# OF INV>	181	333	546	920	68	2,048	
	\$ AMOUNT->	8,962,983	1,253,360	184,520	28,753	(267,797)	10,161,819	
OGHOUSING	# OF INV>	•	8	. 4	. 8		20	
	\$ AMOUNT->		12,020	1,886	438		14,344	
EAGLE	# OF INV>	1	1		2		4	
	\$ AMOUNT>	29,432	1,627		112		31,171	
NIPOL	# OF INV>	3	3	2	1		9	
	\$ AMOUNT>	93,724	11,418	450	51		105,643	
MAYSAP	# OF INV>	314	1,528	1,967	3,093	163	7,065	
	\$ AMOUNT>	14,305,492	4,279,268	720,689	112,038	(205,759)	19,211,728	1-
NOAA	# OF INV>	3	9	4	3		19	~
	\$ AMOUNT>	52,935	15,799	1,157	100		69,991	
SEAL	# OF INV>	1	A.				1	•
	\$ AMOUNT>	13,665					13,665	
SUBSISTENCE	# OF INV>	6	10	7	2		25	
	\$ AMOUNT->	90,577	49,026	2,265	169		142,037	
	TOTAL INVOICES	522	1,906	2,538	4.034	-	9.231	
	TOTAL COSTS	24,122,670	5,676,783	914,024	141,815		30,381,736	

ENCLOSURE (/)

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ADDENDUM 1

PROTOCOL FOR A FINANCIAL REVIEW OF FOSC APPROVED EXPENDITURES BY EXXON, USA ON THE T/V EXXON VALDEZ OIL SPILL FOR THE PERIOD

JANUARY 1, 1991 THRU SEPTEMBER 30, 1992

Objective: To continue the financial review of Exxon's supporting documents for expenditures made by Exxon and pre-approved by the Coast Guard Federal On Scene Coordinator.

A. BACKGROUND:

After evaluating the results of the initial financial review, a decision was made to examine subsequent Exxon expenditures.

B. REVIEW SCHEDULE:

1. The review will be performed at Exxon U.S.A.'s headquarters at 4550 Dacoma, Houston, TX 77092 during the period 06 October 92 through 15-October 92.

2. A Coast Guard team consisting of three members will perform the review. The team members will be:

CAPT Ralph Anderson, USCG(Ret.), (formally MLCPAC(f)) CWO4 Larry Porter, FOSC, Fiscal & Supply Officer Mr. Pat Fedorowicz, NPFC(cf-1), Fund Operations

C. SCOPE OF REVIEW:

1. The review will cover expenditures incurred from 01 January 91 through 30 September 1992 which occurred subsequent to the April 1992 review.

2. The conclusions of the April 1992 review will be discussed with Exxon to assure understanding of the protocol and application to the expenditures.

D. STATEMENT OF WORK:

1. There are approximately 740 invoices totalling approximately \$4,000,000 subject to review. The majority of the invoices represent expenditures for the 1992 FINSAP CWR. All documents will be reviewed. FINSAP, MAYSAP and CLEAN invoices will again be grouped by labor and non-labor and separated by dollar amount, the same as during the April review.

2. Based on the discussions of the April, 1992 review, additional documents from that review may be examined.

EXECUTIVE S RY - FOSC APPROVED EXXON CLEANUP EX TURES

- (1) Review performed 6-15 April and 6-15 October, 1992 in Houston, TX by CAPT R. Anderson, MLCPAC(f); CWO4 L. Porter, FOSC(f&s); Mr. A. Thuring (April), and Mr. P. Fedorowicz (October), NPFC(cf-1)
- (2) Program totals before and after the review are as follows:

PROGRAM NAME	BEGINNING BAL EXXON LEDGER (COL. 1)	FOSC APPROVED CEILING* (COL. 2)	FOSC VALIDATED AS "X" COSTS (COL. 3)	Difference Ceiling vs "X" (Col. 2 - Col. 3)
SPRING	\$5,193,858.52	\$4,000,000.00	• \$4,000,000.00 [•]	\$0.00
CWRs	\$1,081,074.45	\$1,520,700.00	\$1,053,117.76	\$467,582.24
MAYSAP	\$22,033,318.67	\$22,200,000.00	\$21,881,643.29	\$318,356.71
CLEAN	\$9,004,210.07	\$12,865,000.00	\$8,781,367. 68	\$4,083,832.32
FINSAP	\$4,192,556.52	\$4,225,000.00	\$4,087,319.72	\$137,680.28
STATE OSC	\$110,343.03	\$0.00	\$110,239.73	(\$110,239.73)
TOTALS	\$41,615,361.26	\$44,810,700.00	\$39,913,688.18	\$4,897,011.82

- * The ceiling of \$4 million for the period 1/1/91 3/12/91 was established by the Settlement Agreement, not the FOSC
- (3) Original gross charges of \$41,615,361 consisted of 11,904 line items. Of the line items, 17.32% were reviewed which represented \$17,375,678, or 41.75% of the gross dollars before adjustments
- (4) Of the examined dollars, 88.7% remained unchanged with the remaining 11.3% requiring a redistribution to other FOSC approved programs or reclassified by Exxon to other activities
- (5) The review resulted in a reduction of "X" costs by approximately \$1,166,923 including an adjustment of \$225,000 for insurance

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R20 - BALD EAGLE RESTORATION PROJECT PROJECT:

Equipment

AGENCY: DEPARTMENT OF INTERIOR, FISH AND WILDLIFE SERVICE

LINE ITEM	COST
Salaries	\$60,000.00
Travel	5,000.00
Contractual	153,000.00
Supplies	3,000.00

TOTAL 225,000.00 (1.1 FTES)

4,000.00

BACKGROUND/JUSTIFICATION: The area affected by the Exxon Valder oil spill (EVOS) provides year-round habitat for a bald eagle population greater in size than the population of bald eagles inhabiting the Lower 48 contiguous states. Oil contamination of the intertidal habitats used extensively by breeding, wintering and migrating bald eagles have resulted in impacts to these birds. Conservative estimates of total mortality of bald eagles due to EVOS is 553. Bald eagle nesting surveys revealed a significantly low nest success and productivity in Prince William Sound with approximately 69% of occupied nests failing in 1989 and 43% failing in 1990. A conservative estimate of lost production in 1989 was 133 chicks. Hydrocarbon analysis of addled eggs, prey remains, blood, and feathers, in 1989 and 1990, indicated exposure. Two of 3 eggshell samples collected in 1989 on the Alaska Peninsula and Kodiak area were exposed to hydrocarbons. Concentrations of uric acid in blood serum from adult eagles in oiled areas were higher than those from unciled areas in 1989. Eggs collected in 1990 in eastern PWS also indicated exposure to petrogenic hydrocarbons.

Bald eagles feed and nest within the intertidal habitats throughout the spill areas and are susceptible to the effects of oil spills and other water-born contaminants. Some eagle habitats within the spill area have been identified in development plans for timber, minerals, oil and gas and other types of uses that may not be compatible with eagle nesting and feeding requirements. Alteration of eagle habitat could significantly affect the population. For example, the age of nest trees in southeast Alaska exceed 400 years while timber rotations are less than 150 years. Bald eagles would benefit from habitat management, however, a clear understanding of year-round habitat requirements must precede meaningful coordination of development activities. Monitoring the population to identify nest sites and concentrated use areas would provide the opportunity for protection measures that could aid in population recovery by decreasing disturbance in critical habitats. Evidence in the 1989-91 studies suggest that there may be lingering effects of the oil spill to the remaining eagles. Monitoring through radio-tagging would aid in documenting survival rates of adults exposed to oiled areas. Reproduction was strongly influenced by the oil spill in 1989 but results of continuing impacts are not clear. To further evaluate the impacts of EVOS and document recovery it is necessary to monitor reproduction for several years.

The restoration endpoints for the 1992 bald eagle project are to identify critical habitats and monitor reproduction in order to minimize disturbance to bald eagles ensuring healthy reproduction and natural recovery over the long term. Data collected would provide input for an overall habitat protection strategy for the EVOS area. Some threats to habitat are imminent, such as logging, and early identification of critical habitats could avoid unnecessary disturbance to baid eagles and improve the rate of natural recovery.

PROJECT: R20 - BALD EAGLE RESTORATION PROJECT						
AGENCY:	DEPARTM	ENT OF	INTERIOR,	FISH AND	WILDLIFE	SERVICE
BUDGET						
Line 100:	Salari	<u>es</u>				
Principal : Wildlife B: Biological Biological	Investi iologis Techni Techni	gator (t GS-9 cian GS cian GS	55-12 5-7 5-5			10,000 18,000 16,000 16,000
SALARIES TO FTES TOTAL	DTAL			60 1.	,000 1 FTES	
Line 200:	Travel	/Per D	lem	Į	5 ,0 00	
Line 300:	Contra	<u>cts</u>				
Helicopter flight aircra pilot fuel c Fixed-wing PWS te 9 hour 4 hour Region 4 surv 12 hou Office Rent Vehicle Ren	(2 sur t cost aft ava per di cache ((BLM re aircra elemetr rs/week (total hal tel veys pe urs per tal htal	veys @ (\$200/H ilabili em (\$10 1000 ga imbursa ft y surve for 32 of 308 emetry r year, survey	10 days @ hr) ity (\$900/d 00/day) allon blive able) eys weeks (ne hours @ \$ surveys Cook Inle , total o	6 hrs/da day) et with h esting se on-nestin 250/hr) et to SE f 48 hrs	ardware) eason) ng season) AK @ \$250/hr	24,000 18,000 2,000 8,000 77,000 12,000 8,000 4,000
CONTRACTS 1	TOTAL			153	,000	•
<u>Line_400:</u>	Suppli	es		3	,000	
<u>Line 500:</u>	Equipm	ent				
Maps and Pr GPS receive	notos er					2,000 2,000
EQUIPMENT 7	TOTAL			4,	000	5
			TOTAL	225	,000	

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PROJECT: ROCKFISH & LINGCOD RESTORATION PROJECT LEADER: WILLIAM R. BECHTOL PROJECT NO: FISH/SHELLFISH STUDY NO. 52 LOCATION: HOMER PHONE: 235-8191

REQUEST

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	45,3	96.4	141.7
72000	3.3	8.7	12.0
73000	2.3	29.7	32.0
74000	14.9	6.6	21.5
75000	12.4	12.9	25.3
TOTAL	78.2	154.3	232.5

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

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Groundfish, especially rockfish and lingcod, tend to be long-lived, slow-growing, and late maturing. These characteristics make rockfish and lingcod highly susceptible to population perturbations with long recovery times. NRDA Subtidal No. 6 and Fish/Shellfish No. 17 documented lethal and subtethal EVOS impacts to groundfish resources. Additionally, substantial changes to the fishing industry following the EVOS represent secondary impacts resulting the EVOS. This project will develop a human use management plan to protect and restore rockfish and lingcod resources damaged by the EVOS.

This study will collect data on the rockfish and lingcod resources, collect data on the fishing fleet, and model the impact of different fishing strategies on long-term resource yield. Resource data collection will include port sampling, on-board observations, and genetic analysis. In addition to the funding request of \$175,000 for data collection, analysis, and model building, \$45,300 has also been requested for biometric support.

710CU - ERSONAL SERVICES - LIST POSITIONS

Page _

PCN/NP/ NEW	RANGE/	CLASSIFICATION	MOS	LOCATION	INCUMBENT	SUPERVISOR
NEW	12/C	FT III	8	ANCHORAGE		BECHTOL
NEW	12/C	FT III	8	CORDOVA		BECHTOL
NEW	12/A	FT III	4	ANCHORAGE		BECHTOL
NEW	12/A	SEA DUTY FOR ABOVE	4			
NEW	12/A	FT III	12	ANCHORAGE		SEEB
11-7085	17/A	BIO I	7.9	ANCHORAGE	VINING	BRANNIAN
NEW	19/E	BIO II	1	ANCHORAGE		BRANNIAN
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FULL TIME EQUIVALENTS - FTEs (Months/12):

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72000 TRAVEL	DESCRIPTION	4 MOS	8 MOS	Page 3 12 MOS
72240 Field Travel	CATCH SAMPLING	2	5	7
72270 Administrative Travel	MEETINGS	1.1	2.5	3.6
72300 Conventions/Meeting Travel		0	0	0
72360 Moving/Relocation Expenses		0	0	0
72500 Per Diem	MEETINGS	0.2	1.2	1.4
<u></u>				0
	SUBTOTAL	3.3	8.7	12
73000 CONTRACTUAL	DESCRIPTION	4 MOS	8 MOS	12 MOS
73100 Professional Services	PHOTOGRAPHIC SERVICES		0.2	0.3
73300 Communication	FREIGHT & POSTAGE	0.3	0.9	1.2
73400 Transportation	VESSEL CHARTER	0	22.5	22.5
73420 Trans-State Equip Fleet Fees		0	0	0
73500 Advertising, Printing, Binding		0	0	0
73600 Public Utilities Services	PHONE	0.5	1.2	1.7
73700 Minor Repair/Maintenance	SAMPLING AND GENETIC EQPT.	0.2	1.1	1.3
73800 Rental-Land/Buildings/Machinery		0	0	0
73860 Rental – Machinery/Equipment	VEHICLE LEASE	1	3	4
73900 Other Expenditures & Services	LIQUID NITROGEN CONTRACT	0.2	0.8	1
		o	0	0
	SUBTOTAL	2.3	29.7	<u>3</u> 2

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74000 SUPPLES	1 DESCRIPTION	I 4 MOS	8 MOS	Page 4 12 MOS
74420 Office & Library Supplies	OFFICE SUPPLIES	0.4	0.9	1.3
74520 Professional/Scientific Supplies	SAMPLING EQUIPMENT	2.4	1.2	3.6
74560 Data Processing Supplies		0.1	0.2	0.3
74600 Other operating Supplies	FIELD CLOTHING	2.5	0	2.5
74650 Repair & Maintenance Supplies		0	0	0
BIOCHEMICALS	BIOCHE MICALS	8	O	8
OTHER	PERSONALFOOD	1.5	4.3	5.8
OTHER		0	o	0
	SUBTOTAL	14.9	6.6	21.5
75000 EQUPMENT	DESCRIPTION	4 MOS	8 MOS	12 MOS
75750 Vehicles & Transportation Equip		0	0	0
75790 Communication Equipment		o	o	0
75830 Data Processing Equipment	COMPAQ 386	6.4		6.9
75870 Laboratory & Scientific Equip	ULTRA-LOW FREEZER	5	0	5
75940 Special Equipment	LIQUID NITROGEN CONTAINER	1	0	1
75050 Furniture & Office Equipment		0	0	0
OTHER		0	0	0
OTHER		0		0
OTHER		0		0
	SUBTOTAL	12.4	0.5	12.9

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LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	11.9	29.3	41.2
72000	0.6	1.0	1.6
73000	0.4	0.9	1.3
74000	0.1	0.2	0.3
75000	0.2	0.5	0.7
TOTAL	13.2	31.9	45.1

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

Includes 7.9 mm Biometrician I for normal Rockfish work. An additional 1 mm of Biometrician II has been added to support the Genetic component of this Restoration Study.

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PROJECT: Kenai River Sockeye Salmon R53	PROJECT LEADER: Tarbox	
	LOCATION: Soldotna	PHONE: 262-9369

LINE	REQUEST					
ITEM	4 MONTHS	8 MONTHS	12 MONTHS			
71000	17.5	139.4	156.9			
72000	4.4	7.6	12.0			
73000	1.1	231.2	232.3			
74000	23.4	5.7	29.1			
75000	39.2	164.9	204.1			
TOTAL	85.6	548.8	634.4			

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This is to be the department's FY 93 budget request for the above project. On the following pages, please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of Information needed.

COMMENTS: The goal of this project is to restore Kenal River sockeye salmon stocks injured by the Exxon Valdez oil spill. This will be accomplished through improved stock assessment capabilities, more accurate regulation of spawning levels, and modification of human use. The accuracy and precision of catch composition estimates will be improved by the addition of genetic and parasite data to the present scale pattern data. This project will collect the samples for the genetic work while project R59 Genetic Stock Identification will analyze the samples. The accuracy and precision of escapement monitoring will be improved by replacing obsolete hydroacoustic equipment. More accurate estimates of abundance of Kenai River sockeye salmon within Upper Cook Inlet are necessary in order for fishery managers to properly regulate human use of those stocks. The estimation of sockeye salmon abundance entering Cook Inlet will be improved through more Intense sampling.

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PROJECT:	Biometric Support for R53 (CI So	c) l	PROJECT LEADER:	Brannian	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - -
PROJECT NO:	R 53		LOCATION:	Anchorage	PHONE: 267-2118
	REQUEST			<u> </u>	
LINE ITEM	4 MONTHS 8 MONTHS 1	2 MONTHS	This is to be the de for the above proje	epartment's OY ect. On the foll	/4 budget request owing pages

	and the second se			
71000	2.9	31.8	34.7	1
72000	0.6	4.0	4.6	1
73000	0.1	1.0	1.1	i
74000	0.1	0.7	0.8	
75000	0.0	0.8	0.8	
TOTAL	3.8	38.3	42.1	

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please explain, in detail, the actual distribution of this money and summarize It on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

Includes 6 mm Biometrician II. This is a new project and will require development of study plans, data analysis, and reporting.

71000 PENSONAL SERVICES - LIST POSITIONS

Blomeiric Support for H53 (Cl Soc)

Page 2

PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	4 MO	8 MO	LOCATION	INCUMBENT	SUPERVISOR
1271	19E	Biometrician II	0.5	1.5	Anchorage	Bue	Brannian
An an An an an Anna an Anna an an An	19E	Biometrician II	······	4	Anchorage	Vacant	Brannian
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FULL TIME EQUIVALENTS - FTEs (Months/12):

	Biometric Support for H53 (Cl Soc)			Page 3
72000 TRAVEL	DESCRIPTION	4 MOS	B MOS	12 MOS
72240 Field Travel	8 Trips Soldotna	0.4	0.5	0.9
72270 Administrative Travel	1 Trip Juneau	0.0	0.5	0.5
72300 Conventions/Meeting Travel	2 Trips Seattle	0.0	2.0	2.0
72360 Moving/Relocation Expenses		0.0	0.0	0.0
72500 Per Diem	Per Diem	0.2	1.0	1.2
		0.0	0.0	0.0
	SUBTOTAL	0.6	4.0	4.6
73000 CONTRACTUAL	DESCRIPTION	4 MOS	B MOS	12 MOS
73100 Professional Services		0.0	0.0	0.0
73300 Communication	Telephone; Data Line; Postage	0.0	0.0	0.0
73400 Transportation	Air Charter; Air Freight	0.0	0.0	0.0
73420 Trans-State Equip Fleet Fees		0.0	0.0	0.0
73500 Advertising, Printing, Binding	Visual Aid Preparation; Special Printing	0.0	0.0	0.0
73600 Public Utilities Services		0.0	0.0	0.0
73700 Minor Repair/Maintenance		0.0	0.0	0.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment	······································	0.0	0.0	0.0
73900 Other Expenditures & Services	Literature Search	0.0	0.0	0.0
Ch () () () () () () () () () () () () () 		0.0	0.0	0.0
	SUBTOTAL	0.1	1.0	73.9

	Blometric Support for R53 (Cl Soc)			Page 4
74000 SUPPLIES	DESCRIPTION	4 MOS	8 MOS	12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies	Scientific Reference Material	0.0	0.0	0.0
74560 Data Processing Supplies	Computer Paper; ribbons, etc.	0.0	0.0	0.0
74600 Other operating Supplies	Software	0.0	0.0	0.0
74650 Repair & Maintenance Supplies	Computer Repair	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
۵	SUBTOTAL	0.1	0.7	0.8
75000 EQUIPMENT	DESCRIPTION	4 MOS	B MOS	12 MOS
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment	Microcomputer Parts	0.0	0.0	0.0
75870 Laboratory & Scientific Equip		0.0	0.0	0.0
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment	File Cabinets	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	ISUBTOTAL	0.0	0.8	0.8

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PROJECT: R53 Kenai Salmon	PROJECT LEADER: Ken Ta	rbox
PROJECT NO:	LOCATION: Soldotna	PHONE: 262-9369

LINE		REQUEST	
ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	14.6	107.6	122.2
72000	3.8	3.6	7.4
73000	1.0	230.2	231.2
74000	23.3	5.0	28.3
75000	39.2	164.1	203.3
TOTAL	81.9	510.5	592.4

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This is to be the department's FY 93 budget request for the above project. On the following pages, please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

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Draft Detailed Outline DRAFT RESTORATION PLAN

12/3/92

- i. Cover Letter (front/back [Trustee signatures]) Editor
- ii. Acknowledgements (Planning Team) Strand
- iii. Table of Contents Editor
- iv. Executive Summary Editor/Strand/Loeffler
- I. Introduction
 - A. Purpose of Document Loeffler
 - 1. Purpose and Goals
 - 2. Why Plan
 - 3. Concepts
 - a. Alternatives
 - b. Options
 - c. Implementation
 - B. Background Thompson/Gilbert/Weiner
 - 1. History of the oil spill
 - a. Cleanup
 - b. NRDA program
 - 2. Settlements: criminal; civil
 - 3. Post-settlement Trustee organization and administration
 - 4. Summary of Trustee activity since the settlement
 - a. Restoration Activities
 - b. 1992 Work Plan
 - c. 1993 Work Plan
 - d. 1994 Work Plan

71000 PERSONAL SERVICES - LIST POSITIONS (AMOUNTS WILL BE CALULATED FOR YOU)

PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	MONTH	LOCATION	INCUMBENT	SUPERVISOR
11-1255	18K	FB III	2.5	Soldotna	Tarbox	Fried
11-1258	16K	FBI	. 1.75	Soldotna	King	Tarbox
New	16A	FBII	11	Soldotna	Vacant	
New	14A	FBI	1	Soldoina	Vacant	
New	14A	FBI	2.5	Soldotna	Vacant	
New	11A	FWT III	0.5	Soldotna	Vacant	
New	11A	FWT III	2	Soldotna	Vacant	
New	11A	FWTII	2	Soldotna	Vacant	
New	11A	FWT III	2	Soldotna	Vacant	
New	9A	FWTI	1	Soldotna	Vacant	
New	9A	FWTI	2	Soldotna	Vacant	
New	9A	FWT II	2	Soldoina	Vacant	
New	9A	FWT II	2	Soldoma	Vacant	
	ļ	2.1				
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	<u> </u>					<u> </u>
Full Time E	quvilents =	ERR				

72000 TRAVEL	DESCRIPTION		4 MOS	8 MOS	12 MOS
72240 Field Travel					0.0
72270 Administrative Travel	Airfare to Anchorage, Seattle		2.2	1.4	3.6
72300 Conventions & Meeting Travel					0.0
72360 Moving or Relocation Expense					0.0
72500 Per Diem			1.6	2.2	3.8
					0.0
		SUBTOTAL	3.8	3.6	7.4

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73000 CONTRACTUAL	DESCRIPTION	4 MOS	BMOS 1	2 MOS
			and the second se	

73100 Professional Services	Sonar Vendor Contract, Menin Contract, Office of	contract		197	197.0
73300 Communication					0.0
73400 Transportation	Truck Rental, Aircraft Charter		0.5	29.8	30.3
73420 Trans-State Equip Fleet Fees					0.0
73500 Advertising, Printing & Binding					0.0
73600 Public Utilities Services					0.0
73700 Minor Repair & Maintenance	Radio repair,misc equip.		0.5	0.8	1.3
73800 Rental-Land, Buildings & Space					0.0
73860 Rental-Machinery & Equipment					0
73900 Other Expenditures & Services	Hydroacoustic Short Course			2.6	2.6
		SUBTOTAL	1.0	230.15	231.15

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74000 SUPPLIES	DESCRIPTION		4 MOS	8 MOS	12 MOS
74220 Office & Library Supplies					0.0
74520 Professional & Scientific Supplies	Cryovials, genetic racks, sample gear		8.0	0.0	8.0
74560 Data Processing Supplies					0.0
74600 Other Operating Supplies	Fuel, storage boxes, field camp gear		15.3	5.0	20.3
74650 Repair & Maintenance Supplies					0.0
OTHER					0.0
OTHER					0.0
OTHER					0.0
OTHER					0.0
		SUBTOTAL	23.3	5.0	28.3

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75000 EQUIPMENT	DESCRIPTION	8 MOS	4 MOS	12 MOS

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OTHER			
OTHER			
OTHER			
76050 Furniture & Office Equipment	7.0		7.0
75940 Special Equipment		150.0	150.0
75870 Laboratory & Scientific Equip	6.0		6.0
75830 Data Processing Equipment	1.5	3.5	5.0
75790 Communication Equipment	7.5		7.5
75750 Vehicles & Transportation Equip	17.2	10.6	

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PROJECT:	R58 PLUS BIOMETRIC SUPPORT		PROJECT LEADER:	Evelyn D. Biggs
PROJECT NO:	Restoration #58	LOCATION:	Cordova	PHONE: (907)424-3213

REQUEST

UNE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	181.1	148.5	329.6
72000	6.8	9.7	16,5
73000	153.3	6.6	159.9
74000	14.8	5.7	20.5
75000	18.7	7.0	25.7
TOTAL	374.7	177.5	552.2

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS: The herring project is based on an endpoint of improved resource managment to direct and evaluate restoration. The restoration effort will consist of continued monitoring of the biomass, improvements in the accuracy of the stock assessment model components, and a genetics component (including tagging) to refine and define the stock distribution, discreteness, and emmigration/immigration. This is a continuing project that will incorporate and drop components in a systematic matter as stepwise conclusions are made. The stock assessment model and methods will be improved as the stepwise conclusions concerning the herring resource are completed. For example, genetic screening will proceed in 1992 along with a tagging feasibility study. In 1993, the genetics component will be reduced (as conclusions are made) and the tagging component will go full scale. In addition, auxiliary information derived from otofith analysis and possibly larval data can be added in future years as needed.

In 1992, the proposed project components are the spawn deposition survey (estimating total spawning biomass), continuation of the egg loss study (last year of data collection improving the accuracy of a direct multiplier to the population model), and a genetics component that will include a full genetics screening and a tagging feasibility study. Genetics sampling will be conducted inside PWS as well as outside in order to determine stock discreteness and straying rates. The damaged year classes, 1989, 1990 and possibly 1991, will begin to show up in 1992, however, will not begin full recruitment until 1993. Therefore, continued monitoring will be necessary to ensure that damaged year classes are restored or protected.

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Page 1

PROJECT:	Biometric Support for R58 (Herring)	PROJECT LEADER:	Brannian	
PROJECT NO:	R 58	LOCATION:	Anchorage	PHONE: 267-2118

REQUEST

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LINE ITEM	4 MONTHS	B MONTHS	12 MONTHS
71000	10.0	20.0	30.0
72000	0.3	2.7	3.0
73000	0.3	0.6	1.0
74000	0.1	0.4	0.5
75000	0.2	0.5	0.7
TOTAL	10.9	24.3	35.1

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

Includes 3 mm Biommetrician I for normal Herring work. An additional 3 mm of Biometrician II has been added to support the Genetic component of the Restoration Study.

71000 PERSONAL SERVICES - LIST POSITIONS

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Biometric Support for R58 (Herring)

Page 2

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PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	4 MO	8 MO	LOCATION	INCUMBENT	SUPERVISOR
1395	17D	Biometrician I	1	2	Anchorage	Baker	Brannian
C	19A	Biometrician II	1	2	Anchorage	Vacant	
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FULL TIME EQUIVALENTS - FTEs (Months/12):

	Biometric Support for H58 (Herring)			Page 3
72000 TRAVEL	DESCRIPTION	4 MOS	8 MOS	12 MOS
72240 Field Travel	2 Trips to Cordova	0.2	0.3	0.5
2270 Administrative Travel	1 Trip to Juneau	0.0	0.5	0.5
72300 Conventions/Meeting Travel	1 Trip to Seattle	0.0	1.0	1.0
2360 Moving/Relocation Expenses		0.0	0.0	0.0
2500 Per Diem	Per Diem	0.1	0.9	1.0
		0.0	0.0	0.0
	SUBTOTAL	0.3	2.7	3.0
3000 CONTRACTUAL	DESCRIPTION	4 MOS	8 MOS	12 MOS
3100 Professional Services		0.0	0.0	0.0
3300 Communication	Telephone; Data Line; Postage	0.0	0.0	0.0
3400 Transportation	Air Charter; Air Freight	0.0	0.0	0.0
3420 Trans-State Equip Fleet Fees		0.0	0.0	0.0
1500 Advertising, Printing, Binding	Visual Ald Preparation; Special Printing	0.0	0.0	0.0
3600 Public Utilities Services		0.0	0.0	0.0
3700 Minor Repair/Maintenance		0.0	0.0	0.0
3800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
860 Rental-Machinery/Equipment		0.0	0.0	0.0
900 Other Expenditures & Services	Literature Search	0.0	0.0	0.0
**************************************		0.0	0.0	0.0
	SUBTOTAL	0.3	0.6	64.8

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74000 SUPPLIES	Blometric Support for R58 (Herring) DESCRIPTION	4 MOS	8 MOS	Раде 12 М(
74420 Office & Library Supplies		0.0	0.0	
74520 Professional/Scientific Supplies	Scientific Reference Material	0.0	0.0	
74560 Data Processing Supplies	Computer Paper; ribbons, etc.	0.0	0.0	
74600 Other operating Supplies	Soltware	0.0	0.0	
74650 Repair & Maintenance Supplies	Computer Repair	0.0	0.0	
OTHER		0.0	0.0	
OTHER		0.0	0.0	
OTHER		0.0	0.0	
<u> </u>	SUBTOTAL	0.1	0.4	
75000 EQUIPMENT	DESCRIPTION	4 MOS	8 MOS	12 M
75750 Vehicles & Transportation Equip		0.0	0.0	4
75790 Communication Equipment	· · · ·	0.0	0.0	,
75830 Data Processing Equipment	Microcomputer Parts	0.0	0.0	
75870 Laboratory & Scientific Equip		0.0	0.0	
75940 Special Equipment		0.0	0.0	
75050 Furniture & Office Equipment	File Cabinets	0.0	0.0	
OTHER		0.0	0.0	
OTHER		0.0	0.0	
OTHER		0.0	0.0	
0007	SUBTOTAL	0.2	0.5	

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Page 1

PROJECT:	HERRING RESTORATION	AND MONITORING	PROJECT LEADER:	Evelyn D. Biggs
PROJECT NO:	Restoration #58	LOCATION:	Cordova	PHONE: (907)424-3213

REQUEST

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LINE ITEM	4 MONTHS	B MONTHS	12 MONTHS
71000	171.1	128.5	299.5
72000	6.5	7.0	13.5
73000	153.0	6.0	159.0
74000	14.7	5.3	20.0
75000	18.5	6.5	25.0
TOTAL	363.8	153.3	517.0

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line Item, of the type of information needed.

COMMENTS: The herring project is based on an endpoint of improved resource managment to direct and

evaluate restoration. The restoration effort will consist of continued monitoring of the biomass, improvements in the accuracy of the stock assessment model components, and a genetics component (including tagging) to refine and define the stock distribution, discreteness, and emmigration/immigration. This is a continuing project that will incorporate and drop components in a systematic matter as stepwise conclusions are made. The stock assessment model and methods will be improved as the stepwise conclusions concerning the herring resource are completed. For example, genetic screening will proceed in 1992 along with a tagging feasibility study. In 1993, the genetics component will go full scale. In addition, auxillary information derived from otolith analysis and possibly larval data can be added in future years as needed.

In 1992, the proposed project components are the spawn deposition survey (estimating total spawning biomass), continuation of the egg loss study (last year of data collection improving the accuracy of a direct multiplier to the population model), and a genetics component that will include a full genetics screening and a tagging feasibility study. Genetics sampling will be conducted inside PWS as well as outside in order to determine stock discreteness and straying rates. The damaged year classes, 1989, 1990 and possibly 1991, will begin to show up in 1992, however, will not begin full recruitment until 1993. Therefore, continued monitoring will be necessary to ensure that damaged year classes are restored or protected.

r 1000 PERSONAL SERVICES - LIST POSITIONS

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PCN/NP/ NEW	RANGE/	CLASSIFICATION	MOS	LOCATION	INCUMBENT	SUPERVISOR
new	18A	Project Geneticist, FB III 12.0 Anchorage		None	Seeb	
NP.	9A	Laboratory Assistant, FT II	12.0	Anchorage	None	Seeb
11-7044	16D	Principal Investigator, FB II	12.0	Cordova	Biggs	Wilcock
11-7019	18E	Project Biologist, FB III	6.0	Cordova	Wilcock	Fried
11-1394	11C	Project Assistant, FT III	5.0	Cordova	Haley	Biggs
11-1552	9B	Laboratory Supervisor, FT II	3.0	Cordova	Gilman	Biggs
11-1592	9B	Expeditor/Logistics, FT II	2.3	Cordova	Bracken	Biggs
11-1571	7B	Lab. Assistant, FT I	3.0	Cordova	Carimas	Gilman
NP	11A	Project Dive Team Leader, FT III	1.5	Cordova	Becker	Biggs
NP	118	Project Dive Team Leader, FT III	1.5	Cordova	Miller	Biggs
NP	9A	Project Diver. FT II	1.5	Cordova	Morgan	Miller
NP	9A	Project Diver, FT II	1.5	Cordova	Coyer	Biggs
NP	9A	Project Diver, FT II	1.5	Cordova	None	Miller
<u>e</u>			0.0			
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	-		0.0			-

FULL TIME EQUIVALENTS - FTEs (Months/12):

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72000 TRAVEL	DESCRIPTION	4 MOS	8 MOS	,ye 3 12 MOS
72240 Field Travel	Project Travel, Divers/Researchers	1.5	2.0	
72270 Administrative Travel		0.0	0.0	
72300 Conventions/Meeting Travel	Synthesis, Mngmt. Team, Symposium	2.0	2.0	
72360 Moving/Relocation Expenses		0.0	0.0	
72500 Per Diem	For Above	3.0	3.0	
Bing y spinstry and the first is a set of the set of t		0.0	0.0	
4 7	SUBTOTAL	6.5	7.0	1
73000 CONTRACTUAL	DESCRIPTION	4 MOS	8 MOS	12 MOS
73100 Professional Services	Genetic Sample Processing	0.0	2.0	
73400 Vessel Charter/Travel	Vessel Charter, Sand Island	99.0	0.0	9
73400 Vessel Charter/Travel	Vessel Charter, Polaris or Equiv.	45.0	0.0	4
73700 Minor Repair/Maintenance	Skiff Repair/Rebuild; Dive Gear Main.	3.0	3.0	
73400 Aircraft Charter	Aircraft Charter	5.0	0.0	
73600 Public Utilities Services	Office Rent/Phones	0.0	0.0	
73700 Minor Repair/Maintenance	Computer/Lab Repair	0.0	0.0	·
73400 Airfreight/Shipping .	Ainfreight/Express Mall	1.0	1.0	
73420 Trans-State Equip Fleet Fees	State Veh. Lease	0.0	0.0	
		0.0	0.0	1
		0.0	0.0	
	SUBTOTAL	153.0	6.0	15

74000 SUPPLIES	DESCRIPTION	4 MOS	8 MOS	Page 4 12 MOS
74420 Office & Library Supplies	Reg. Office	0.2	0.8	1.0
74520 Professional/Scientific Supplies	Chemicals/Vials/Ship.Containers	12.0	2.0	14.0
74560 Data Processing Supplies	Disks/Upgrades	0.5	1.0	1.5
74600 Other operating Supplies		0.0	0.0	<u> </u>
74650 Repair & Maintenance Supplies	Tools/Misc. Supplies	2.0	1.5	3.5
DTHER ·		0.0	0.0	0.0
DTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	SUBTOTAL	14.7	5.3	20.0
75000 EQUIPMENT	DESCRIPTION	1 4 MOS	8 MOS	12 MOS
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment	Replacement Skiff Radio	0.5	0.0	0.
75830 Data Processing Equipment	Computers/Printers for Geneticist	12.0	0.0	12.0
75870 Laboratory & Scientific Equip	Genetic Sample Proc./Ship. Equip.	3.0	3.5	6.9
75940 Special Equipment	Replacement Dive Gear	1.0	3.0	4.(
75050 Furniture & Office Equipment	Desk/Chairs/Phone	2.0	0.0	2.0
DTHER		0.0	0.0	0.0
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DTHER		0.0	0.0	0.0
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PROJECT: Sockeye Genetics

PROJECT LEADER: Seeb

PROJECT NO: R-59

IOCATION: Anchoraco

PHONE: 267-2385

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	54.3	94.6	149.3
72000	2.6	6.9	9.5
73000	1.9	6.1	8.0
74000	13.3	28.2	41.5
75000	81.7	81.7	81.7
TOTAL	153.8	217.5	290.0

REQUEST

COMMENTS:

The cohorts of sockeye salmon originating from the 1989 spawning in the Kenai River drainage are so depleted that a severe reduction or complete elimination of their harvest may be necessary starting in 1993 to insure even minimally adequate escapements. Genetic stock identification (GSI) techniques will be implemented to manage the harvest of these EVOS-damaged stocks in Cook Inlet mixed harvest areas. GSI has only recently been applied as an in-season management tool, and through recent developments it has proven to be extremely effective for allocating and adjusting the harvest of stocks intercepted in stock mixtures such as those that occur in Cook Inlet. Starting in 1992, baseline genetic data will be collected from 28 subpopulations from the Kenai, Kasilof, and Susitna Rivers. Samples from Cook Inlet harvest areas will be analyzed and reduced to stock components using these data and standard GSI techniques each week during the 1993 and 1994 seasons. Area managers will use this information to identify the presence of Kenai River stocks; they will modify harvest areas and openings in order to protect these depleted stocks and to target the harvest of the surplus Kasilof and Susitna stocks.

71000 PERSONAL SERVICES - LIST POSITIONS

Page 2

PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	Mos	LOCATION	INCUMBENT	SUPERVISOR
NEW	19A	Biometrician II	6.0	ANCHORAGE	Vacant	Seeb
NEW	16A	Fish Biologist II	12.0	ANCHORAGE	Vacant	Seeb
NEW	-	Fish Technician III	- 12.0	ANCHORAGE	Vacant	Seeb
NEW	- 11A ·	Fish Technician III	12.0	ANCHORAGE	Vacant	Seeb
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FULL TIME EQUIVALENTS - FTEs (Months/12): 3.5

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72000 TRAVEL	DESCRIPTION	4 Mos	8 Mos	Page 3 12 MOS
72240 Field Travel	Cook Inlet Area Samp. Coord.	1.5	2.5	4.0
72270 Administrative Travel	Soldotna/Juneau	0.6	2.4	3.0
72300 Conventions/Meeting Travel	• • • • • • • • • • • • • • • • • • •	0.0	0.0	0.0
72360 Moving/Relocation Expenses	·	0.0	0.0	0.0
72500 Per Diem	•	0.5	2.0	2.5
	•	0.0	0.0	······································
	SUBTOTAL	2.6	6.9	9.5
73000 CONTRACTUAL	DESCRIPTION	4 Mos	8 MOS	12 MOS
73100 Professional Services	·	0.0	0.0	0.0
73300 Communication	Long Distance/Modem to Vax	0.3	0.7	1.0
73400 Transportation	Truck Rental	0.6	1.4	2.0
73420 Trans-State Equip Fleet Fees		0.0	0.0	. 0.0
73500 Advertising, Printing, Binding	· · · · · · · · · · · · · · · · · · ·	0.0	0.0	0.0
73600 Public Utilities Services	·	0.0	0.0	<u>}</u>
73700 Minor Repair/Maintenance	Maintain minor lab equip	0.5	1.5	2.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment		0.0	0.0	0.0
73900 Other Expenditures & Services	Misc.	0.5	2.5	3.0
	•	0.0	0.0	0.0
	SUBTOTAL	1.9	6.1	8.0

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1999 - 199 - 199

74000 SUPPLIES	DESCRIPTION	4 Mos	8 Mos	Page 4 12 MOS
74420 Office & Library Supplies	Misc.	0.3	0.7	1.0
74520 Professional/Scientific Supplies	Biochemicals, Enzymes, etc.	8.0	23.0	31.0
74560 Data Processing Supplies	Misc. incl. software	2.5	1.0	3.5
74600 Other operating Supplies		0.0	0.0	0.0
74650 Repair & Maintenance Supplies	Misc. Lab. Buffers/Supplies	2.5	3.5	6.0
OTHER		0.0	0.0	0
OTHER	· · · · · · · · · · · · · · · · · · ·	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
• • • • • • • • • • • • • • • • • • •	SUBTOTAL	13.3	28.2	41.5
75000 EQUIPMENT	DESCRIPTION	4 Mos	8 Mos	12 MOS
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment	Computer system for Blo/Lab	15.0	0.0	15.0
75870 Laboratory & Scientific Equip	Elect. DC Units/Chillers	21.2	0.0	21
75940 Special Equipment	-80 Degree Sample Freezers	21.0	0.0	21.0
75050 Furniture & Office Equipment	Desks, Chairs, etc.	1.5	0.0	1.5
OTHER	Computer for Blometrician	8.0	0.0	8.0
OTHER	Cryogenics	5.0	0.0	5.0
OTHER	Alarm System	10.0	0.0	10.0
	SUBTOTAL	81.7	0.0	81.7

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Page 1

PROJECT:	Genetic Stoc	k IDBlomet	rics P	ROJECT LEADER: Seeb	
PROJECT NO:	R-59			LOCATION: Anchorage	PHONE: 267-2385
	REQUE	ST			
LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS	This is to be the departme	nt's OY4 budget request
71000	15.0	15.0	30.0	please explain, in detail,	the actual distribution
72000	0.0	0.0	0.0	or chirs money and summarize	e it on the fifth page.
73000	0.0	0.0	0.0		
74000	2.0	0.0	2.0		
75000	8.0	8.0	8.0		

COMMENTS: This is the biometrics subcomponent of the Genetic Stock ID project.

40.0

23.0

25.0

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TOTAL
71000 PERSONAL SERVICES - LIST POSITIONS

PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	MOS	LOCATION	INCUMBENT	SUPERVISOR
lew	- 19A	Biometrician 11	6.0	Anchorage	Vacant	Seeb
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FULL TIME EQUIVALENTS - FTEs (Months/12): 0.5

Page 2

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72000 TRAVEL	DESCRIPTION	4 Mos	8 Mos	Page 3 12 MOS
72240 Field Travel		0.0	0.0	0.0
72270 Administrative Travel		0.0	0.0	0.0
72300 Conventions/Meeting Travel	,	0.0	0.0	0.0
72360 Moving/Relocation Expenses		0.0	0.0	0.0
72500 Per Diem		0.0	0.0	0.0
		0.0	0.0	0.0
	SUBTOTAL	0.0	0.0	0.0
73000 CONTRACTUAL	DESCRIPTION	4 Mos	8 MOS	12 MOS
73100 Professional Services		0.0	0.0	0.0
73300 Communication		0.0	0.0	0.0
73400 Transportation		0.0	0.0	0.0
73420 Trans-State Equip Fleet Fees		0.0	0.0	0.0
73500 Advertising, Printing, Binding		0.0	0.0	0.0
73600 Public Utilities Services		0.0	0.0	0.0
73700 Minor Repair/Maintenance		0.0	0.0	0.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment		0.0	0.0	0.0
73900 Other Expenditures & Services		0.0	0.0	0.0
		0.0	0.0	0.0
	SUBTOTAL	0.0	0.0	0.0

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		•		Page 4
74000 SUPPLIES	DESCRIPTION	4 Mos	8 Mos	12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies		0.0	0.0	0.0
74560 Data Processing Supplies	Software	2.0	0.0	2.0
74600 Other operating Supplies		0.0	0.0	0.0
74650 Repair & Maintenance Supplies	·	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
***************************************	SUBTOTAL	2.0	0.0	2.0
75000 EQUIPMENT	DESCRIPTION	4 MOS	8 MOS	12 MOS
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment	Computer	8.0	0.0	8.0
75870 Laboratory & Scientific Equip		0.0	0.0	0.0
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture 4 Office Equipment		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
· · · · · · · · · · · · · · · · · · ·	SUBTOTAL	8.0	0.0	8.0

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ALASKA DEPARTME FISH & GAME

				ÖY4		Page
PROJECT:	Restoration	Project 60AB		PROJECT LEADER:	Sam Sharr	
PROJECT NO:	<u> </u>	·····		LOCATION:	Cordova	PHONE: 424-3212
C.	REQUE	ST				
LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS	This is to be the de for the above proje	partment's Or ct. On the foll	/4 budget request
71000	270.6	1104.1	1374.7	please explain, in c of this money and s	letail, the actu summarize It c	al distribution on the first page,

15.8

133.3

84.6

45.7

1654.1

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

72000

73000

74000

75000

TOTAL

Total Budget (Field Work + Biometrics)

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3.1

22.3

17.5

33.6

347.1

127

111.0

67.1

12.1

1307.0

This project is comprised of 5 separate budgets: 1) Biometric Support for R60A 2) Biometric Support for R60B 3) R60A Coded—wire Tag Recovery for pink salmon, 4) R60A Coded—wire tag lab, and 5) R60B Adult pink pink salmon enumeration. Please see specific budget summaries for comments on each phase of the project.

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ALASKA DEPARTME^M & FISH & GAME

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PROJECT: R60A	Coded-wire Tag Recovery - Pir	k PROJECT LEADER: Sam S	Sharr
PROJECT NO:	11822401	LOCATION: Cordova	PHONE: 424-3212

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LINE	REQUEST						
ITEM	4 MONTHS	8 MONTHS	12 MONTHS				
71000	142.3	418.6	560.9				
72000	0.7	2.6	3.3				
73000	5.5	15.8	21.3				
74000	2.5	0.0	2.5				
75000	8.0	0.0	8.0				
TOTAL	159.0	437.0	596.0				

This is to be the department's FY 93 budget request for the above project. On the following pages, please explain, in detail, the actual distribution of this money and summarize it on the first page. ţ.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS: This is a coded-wire tag recovery project for pink salmon. Tags applied as part of

Restoration Study #60 in 1991 must be recovered or vital data used to make inseason stock specific estimates of abundance and timing for oil impacted as well as hatchery and unimpacted salmon stocks in commercial fisheries of Prince William Sound will be lost. The commercial fishery in PWS is of major economic importance and also plays a major role in regulating populations of salmon in PWS. Wild stocks which were damaged by the EVOS play a major role in the PWS ecosystem and are frequently intercepted in mixed stock fisheries dominated by hatchery fish. Fisheries cannot be managed to totally exclude the harvest of wild fish without compomising the quality of hatchery fish harvest. However, with prior knowledge of hatchery and wild stockabundance and distributions, fisheries managers can limit intercetions of wild fish. Data from this project will enable fisheries managers to restore salmon populations by selectively reducing harvests of damaged stocks while permiting the continued harvests of valuable hatchery surpluses. If this project is not funded more than \$1,000,000 worth of tagging data will be irretrievably lost.

71000 PERSONAL SERVICES- LIST POSITIONS (AMOUNTS WILL BE CALULATED FOR YOU)

PCN/NP/	RANGE/		4	OT	8	OT			
NEW	STEP	CLASSIFICATION	MONTH	HOUR	MONTH	HOUR	LOCATION	INCUMBENT	SUPERVISOR
11-1210	18F	FB III PERM	2		4		CORDOVA	S, SHARR	S, FRIED
11-7022	16A	FB II PERM	4		8		CORDOVA	VACANT	S. SHARR
11-N233	14A	FB I-NON PERM	3	0	6	120	CORDOVA	J. SMITH	S. SHARR
	11A	FT III-NON PERM	3	0	6	160	VALDEZ	J. SEPEZ	S. SHARR
11-N228	11A	FT III-NON PERM	3	D	6	160	CORDOVA	N. SPEER	S. SHARR
11-N185	13A	Research Analyst I	0	0	6	0	CORDOVA	K. ROSEN	S. SHARR
11-N186	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	J. ALLEN	S. SHARR
11-N972	9A	FT II-NON PERM	0	0	2	160	SEWARD	VACANT	S. SHARR
11-N971	9A	FT II-NON PERM	0.5	20	2.5	100	ANCHORAGE	VACANT	S. SHARR
	9A	FT II-NON PERM	0.5	20	2.5	100	ANCHORAGE	VACANT	S. SHARR
11-N989	9A	FT II-NON PERM	0.5	20	2.5	100	KENAI	VACANT	S. SHARR
11-N990	9A	FT II-NON PERM	0.5	20	2.5	100	KENA	VACANT	S. SHARR
11-N991	9A	FT II-NON PERM	0.5	20	2.5	100	KENAI	VACANT	S. SHARR
11-N992	9A	FT II-NON PERM	0.5	20	2.5	250	WHITTIER	VACANT	S. SHARR
11-N188	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N189	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N190	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N191	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11N192	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N193	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N194	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N195	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N196	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N197	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N198	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR
11-N199	9A	FT II-NON PERM	1	20	2.5	100	CORDOVA	VACANT	S. SHARR

71000 PERSONAL SERVICES - LIST POSITIONS (AMOUNTS WILL BE CALULATED FOR YOU)

PCN/NP/	RANGE/		4	OT .	8	OT			
NEW	STEP	CLASSIFICATION	MONTH	HOUR	MONTH	HOUR	LOCATION	INCUMBENT	SUPERVISOR
11-N216	9A	FT II-NON PERM	1	20	2.5	100	VALDEZ	VACANT	S. SHARR
11-N217	9A	FT II-NON PERM	1	20	2.5	100	VALDEZ	VACANT	S. SHARR
11-N219	9A	FT II-NON PERM	1	20	2.5	100	VALDEZ	VACANT	S. SHARR
11-N808	9A	FT II-NON PERM	1	20	2.5	100	VALDEZ	VACANT	S. SHARR
11-N809	9A	FT II-NON PERM	1	20	2.5	100	VALDEZ	VACANT	S. SHARR
11-N810	9A	FT II-NON PERM	1	20	2.5	100	VALDEZ	VACANT	S. SHARR
11-N970	9A	FT II-NON PERM	1	20	2.5	100	VALDEZ	VACANT	S. SHARR
	9A	FT II-NON PERM	1	20	2.5	100	VALDEZ	VACANT	S. SHARR
	9A	FT II-NON PERM	-	-	1	40	KODIAK	VACANT	S. SHARR
	9A	FT II-NON PERM	-		1	40	KODIAK	VACANT	S. SHARR
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Full Time Equivalents =

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22000 TRAVEL	I DESCRIPTION	4 MOS	L BMOS	12 MOS
12000 HIVITER		and the second division of the second divisio		

72240 Field Travel	Supervisory trips to Kenai, Anch, Kodiak, Whittier		0.394	1.488	1.882
72270 Administrative Travel					0
72300 Conventions & Meeting Travel					0
72360 Moving or Relocation Expense	· .				0
72500 Per Diem	Supervisory trips		0.33	1.1	1.43
					0
	S	UBTOTAL	0.724	2.588	3.312

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73000 CONTRACTUAL	DESCRIPTION	4 MOS	8 MOS	12 MOS	

73300 Communication	Phones-Valdez, Whittier		0.45	0.9	1.35
73400 Transportation	Cordova Air		2	11.4	13.4
73420 Trans-State Equip Fleet Fees	2 Vehicles		0.6	1.5	2.1
73500 Advertising, Printing & Binding					0
73600 Public Utilities Services					0
73700 Minor Repair & Maintenance			2	1	3
73800 Rental-Land, Buildings & Space	Office in Valdez, Whittler		0.457	1.03	1.487
73860 Rental-Machinery & Equipment					0
73900 Other Expenditures & Services					0
		SUBTOTAL	5.507	15.83	21.337

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74000 SUPPLIES	DESCRIPTION	4 MOS	8 MOS	12 MOS

74220 Office & Library Supplies					
74520 Professional & Scientific Supplies	Balance, knives, tweezers, etc.		2.48		2.48
74560 Data Processing Supplies					Ō
74600 Other Operating Supplies					0
74650 Repair & Maintenance Supplies					C
OTHER					(
OTHER					C
OTHER					C
OTHER					C
	S	UBTOTAL	2.48	0	2.48

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75000 EQUIPMENT	DESCRIPTION	8 MOS	4 MOS	12 MOS

	· · · · · · · · · · · · · · · · · · ·					.
75750 Vehicles & Transportation Equip					_	
75790 Communication Equipment					· · · ·	
75830 Data Processing Equipment	COMPUTER-386			8		8
75870 Laboratory & Scientific Equip						
75940 Special Equipment						
76050 Furniture & Office Equipment						
OTHER						
OTHER						
OTHER						
" 1		· · · · · · · · · · · · · · · · · · ·	SUBTOTAL	8		8

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PROJECT: Restoration Project 60A	PROJECT LEADER: Sam S	harr
PROJECT NO:	LOCATION: Cordova	PHONE: 424-3212

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LINE		REQUEST	
ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	51.6	143.3	194.9
72000	1.4	1.4	2.8
73000	4.4	11.1	15.5
74000	2.6	14.8	17.4
75000	9.2	0.0	9.2
TOTAL	69.2	170.6	239.8

This is to be the department's FY 93 budget request for the above project. On the following pages, please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS: This is the FRED coded—wire tag lab budget required for processing heads from tagged pink salmon. The tag lab extracts and decodes tags from fish heads recovered in the commercial fisheries and spawning escapemnts. Without this service, tag recovery efforts are worthless and very critical restoration

data are lost. Tags applied as part of restoration project #60 activities in 1991 must be recovered and decoded to provide inseason stock specific estimates of abundance and timing for oil impacted as well as hatchery and unimpacted salmon stocks in commercial fisheries of Prince William Sound. The commercial fishery in PWS is of major economic importance and also plays a major role in regulating populations of salmon in PWS. Wild stocks which were damaged by the EVOS play a major role in the PWS ecosystem and are frequently intercepted in mixed stock fisheries dominated by hatchery fish. Fisheries cannot be managed to totally exclude the harvest of wild fish without compomising the quality of hatchery fish harvest. However, with prior knowledge of hatchery and wild stockabundance and distributions, fisheries managers can limit intercetions of wild fish. Data from tag recoveries enable fisheries managers to restore salmon populations by selectively reducing harvests of damaged stocks while permiting the continued harvests of valuable hatchery surpluses.

71000 PERSONAL SERVICES - LIST POSITIONS (AMOUNTS WILL BE CALULATED FOR YOU)

PCN/NPI	BANGE/		4	ot	8	OT			
NEW	STEP	CLASSIFICATION	MONTH	HOUR	MONTH	HOUR	LOCATION	INCUMBENT	SUPERVISOR
11-7031	17/D	Analyst/Prog III	4	0	8	0	Juneau	Murphy	Haar
11-7042	11/C	FWT III	3	50	7	150	Juneau	Buettner	Bertoni
11-7038	9/C	FWTII	1	20	3	90	Juneau	Achten	Bertoni
11-7039	9/D	FWTII	1	20	3	90	Juneau	Cochran	Bertoni
11-7040	9/B	FWTII	1	20	3	60	Juneau	Cole	Bertoni
11-7041	9/8	FWTII	1	20	3	60	Juneau	Landingham	Bertoni
11-7054	9/8	FWTI	1	20	3	60	Juneau	Rairick	Bertoni
11-7055	9/B	FWTI	1	20	3	60	Juneau	Clark	Bertoni
11-7056	9/A	FWTI	1	20	3	60	Juneau	Vacant	Bertoni
11-N962	9A	FWT II	0	20	1.5	40	Juneau	Sheriden	Bertoni
11-N963	9A	FWT II	0	20	1.5	40	Juneau	Vacant	Bertoni
11-N964	9A	FWTI	0	20	1.5	40	Juneau	Vacant	Bertoni
							ş		
			-						
Full Time E	quvilents =	4.5							

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72000 TRAVEL	DESCRIPTION		4 MOS	B MOS	12 MOS
TO AD Cited Transf			1		0.0
	A Dect Trips Jungary/Cordova (mastings & Irainin				U.U 4 6
72270 Administrative maves	4 HIQ THPS JUREAU/COLOUVA (moetings of training	91	<u> </u>	<u> </u>	1.0
72300 Conventions & meeting traver					0.0
72360 Moving of Helocation Expense					
72500 Per Diem	3 days each Juneau/Coroova inp		0.6	<u> </u>	1.2
					0.0
	S	UBTOTAL	1.4	1.4	2.8

73000 CONTRACTUAL	DESCRIPTION	4 MOS	8 MOS	12 MOS

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73100 Professional Services	Training		0	0.3	0.3
73300 Communication	Data iline, long distanc, postage		0.4	0.6	1.0
73400 Transportation	Head shipment costs		1.5	6.0	7.5
73420 Trans-State Equip Fleet Fees	DOT Vehicle		0.0	0.6	0.6
73500 Advertising, Printing & Binding	Printing of forms, decais, tag cards	·	1.5	1.5	3.0
73600 Public Utilities Services	Garbage collection		0.6	1.0	1.6
73700 Minor Repair & Maintenance	Computer and lab equipment repair		0.3	1.1	1.4
73800 Rental-Land, Buildings & Space			0.0	0.0	0.0
73860 Rental-Machinery & Equipment					0
73900 Other Expenditures & Services	Subscriptions		0.1	0	0.1
		SUBTOTAL	4.4	11.1	15.5

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74220 Office & Library Supplies	Pencils, paper, general		0.5	0.0	0.5
74520 Professional & Scientific Supplies	Lab & sampling supplies including cinch tags		1.0	12.0	13.0
74560 Data Processing Supplies	Computer diskettes & software upgrades		0.6	2.8	3.4
74600 Other Operating Supplies					0.0
74650 Repair & Maintenance Supplies	Cleaning supplies, batteries etc		0.5	0.0	0.5
OTHER					0.0
OTHER					0.0
OTHER					0.0
OTHER					0.0
	SUBI	OTAL	2.6	14.8	17.4

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75000 EQUIPMENT	DESCRIPTION	8 MOS	4 MOS	12 MOS
عالاتها أكالك أنساط والمتحدين الشاطر والتجاري والترجي والترجي والترجي والمتحد والمحد				

75750 Vehicles & Transportation Equip					
75790 Communication Equipment					
75830 Data Processing Equipment	Replacement keyboards & monitors		3.0	0.0	3.0
75870 Laboratory & Scientific Equip	CWT detector & fiber optic lights		5.0	0.0	5.0
75940 Special Equipment					
76050 Fumiture & Office Equipment	Furniture for decoding personnel		1.2	0.0	1.2
OTHER					
OTHER					•
OTHER					
, 3		SUBTOTAL	9.2	0.0	9.2

PROJECT:	Biometric Support for R60A	PROJECT LEADER:	Brannian	
PROJECT NO:	R 60 A	-LOCATION:	Anchorage	PHONE: 267-2118
<u></u>	REQUEST			

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	10.9	31.0	41.8
72000	0.0	3.9	3.9
73000	0.4	1.0	1.3
74000	0.0	0.6	0.6
75000	0.2	0.8	1.0
TOTAL	11.4	37.3	48.7

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This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

Includes 0.3 mm Biometrician II, 6 mm Biometrician I, and 3 mm Analyst/Programmer II.

71000 PERSONAL SERVICES - LIST POSITIONS

Biometric Support for R60A

Page 2

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PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	4 MO	8 MO	LOCATION	I INCUMBENT	SUPERVISOR
1271	19E	Biometrician II	0.3	0	Anchorage	Bue	Brannian
7072	17B	Blometricain I	2	4	Anchorage	Evans	Bue
7087	15A	Analyst/Programmer II		3			
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FULL T' EQUIVALENTS - FTEs (Months/12):

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DESCRIPTION	4 MOS	8 MOS	12 MOS	
3 Trips Cordova	0.0	0.7	0.7	
2 Trips Juneau	0.0	1.0	1.0	
1 Trip Seattle	0.0	1.0	1.0	
	0.0	0.0	0.0	
Per Diem	0.0	1.2	1.2	
	0.0	0.0	0.0	
SUBTOTAL	0.0	3.9	3.9	
DESCRIPTION	4 MOS	B MOS	12 MOS	
	0.0	0.0	0.0	
Telephone; Data Line; Postage	0.0	0.0	0.0	
Air Charter; Air Freight	0.0	0.0	0.0	
	0.0	0.0	0.0	
Visual Ald Preparation; Special Printing	0.0	0.0	0.0	
	0.0	0.0	0.0	
	0.0	0.0	0.0	
	0.0	0.0	0.0	
	0.0	0.0	0.0	
Literature Search	0.0	0.0	0.0	
	0.0	0.0	0.0	,
	3 Trips Cordova 2 Trips Juneau 1 Trip Seattle Per Diem SUBTOTAL DESCRIPTION Telephone; Data Line; Postage Air Charter; Air Freight Visual Ald Preparation; Special Printing Literature Search	3 Trips Cordova 0.0 2 Trips Juneau 0.0 1 Trip Seattle 0.0 0.0 0.0 Per Diem 0.0 SUBTOTAL 0.0 DESCRIPTION 4 MOS 0.0 0.0 Telephone; Data Line; Postage 0.0 Air Charter; Air Freight 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Literature Search 0.0 0.0 0.0	3 Trips Cordova 0.0 0.7 2 Trips Juneau 0.0 1.0 1 Trip Seattle 0.0 1.0 0.0 0.0 1.0 Per Diem 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 0.0 SUBTOTAL 0.0 0.0 DESCRIPTION 4 MOS 8 MOS 0.0 0.0 0.0 Telephone; Data Line; Postage 0.0 0.0 Air Charter; Air Freight 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Usual Aid Preparation; Special Printing 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3 Trips Cordova 0.0 0.7 0.7 2 Trips Juneau 0.0 1.0 1.0 1 Trip Seattle 0.0 1.0 1.0 0.0 0.0 1.0 1.0 Per Diem 0.0 0.0 0.0 SUBTOTAL 0.0 3.9 3.9 DESCRIPTION 4 MOS 8 MOS 12 MOS Mircharter; Air Freight 0.0 0.0 0.0 Air Charter; Air Freight 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Usual Aid Preparation; Special Printing 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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74000 SUPPLIES	Blometric Support for R60A DESCRIPTION	4 MOS	b Mos	Page 4 12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies	Scientific Reference Material		0.0	0.0
74560 Data Processing Supplies	Computer Paper; ribbons, etc.	0.0	0.0	0.0
74600 Other operating Supplies	Software	0.0	0.0	0.0
74650 Repair & Maintenance Supplies	Computer Repair	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
<u></u>	SUBTOTAL	0.0	0.6	0.6
75000 EQUIPMENT	DESCRIPTION	4 MOS	8 MOS	12 MOS
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment	Microcomputer Parts	0.0	0.0	0.0
75870 Laboratory & Scientific Equip		0.0	0.0	0.0
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment	File Cabinets	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER ·		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	I	0.2	0.8	1.0

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PROJECT: R60B Adult Pink Enumeration PWS	PROJECT LEADER: Sam Si	harr
PROJECT NO:	LOCATION: Cordova	PHONE: 424-3212

LINE		REQUEST	
ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	62.9	481.0	543.9
72000	1.0	2.4	3.4
73000	11.9	82.2	94.1
74000	12.4	51.3	63.7
75000	16.2	10.5	26.7
TOTAL	104.4	627.4	731.8

This is to be the department's OY 4 budget request for the above project. On the following pages, please explain, in detail, the actual distribution of this money and summarize it on the first page.

COMMENTS: This project will enumerate the wild pink salmon escapement and recover tagged adult pink salmon at six weir camps where coded-wire tags were applied to wild pink fry in both 1990 and 1991, at four additional weir sites, and at selected streams in the vicinity of each weired stream. Crews at all locations will also attempt to recover coded-wire tagged fish during daily foot surveys to determine survival rates of tagged stocks and to document any evidence of straying by tagged stocks. The commercial fishery in PWS is of major economic importance and also plays a major role in regulating populations of salmon in PWS. Wild stocks which were damaged by the EVOS play a major role in the PWS ecosystem and are frequently intercepted in mixed stock fisheries dominated by hatchery fish. Accurate and timely estimates of spawning escapements and selectively reducing harvests in areas where exploitation of damaged stocks might contribute to inadequate numbers of spawning adults. Tag recoveries from this project will contribute directly to the proposed coded-wire tag recovery project and also ald in stock specific management of PWS fisheries.

71000 PERSONAL SERVICES - LIST POSITIONS (AMOUNTS WILL BE CALULATED FOR YOU)

PCN/NP/	RANGE/		4	OT	8	OT			
NEW	STEP	CLASSIFICATION .	MONTH	HOUR	MONTH	. HOUR	LOCATION	INCUMBENT	SUPERVISOR
11-7043	16D	Fisheries Biologist II	2.0	-	4.0		CORDOVA	Sharp	Sharr
11-N232	14A	Fisheries Blologist I	4.0	60	6.0	50	CORDOVA	Dunbar	Sharr
11-N	11A	FT III non-perm	1.0	60	5.0	200	CORDOVA	Vacant	Sharr
11-N	11A	FT III non-perm	1.0	60	3.0	200	CORDOVA	Vacant	Sharr
11-N	11A	FT III non-perm	1.0	30	3.0	200	CORDOVA	Vacant	Sharr
11-N	11A	FT III non-perm	1.0	30	3.0	200	CORDOVA	Vacant	Sharr
11-N	11A	FT III non-perm	-	-	3.0	200	CORDOVA	Vacant	Sharr
11-N	11A	FT III non-perm	**	-	3.0	200	CORDOVA	Vacant	Sharr
									·
11-N	11Â	FT III non-perm	8	Site.	3.0	240	CORDOVA	Vacant	Sharr
11-N	11A	FT III non-perm	1	-	3.0	240	CORDOVA	Vacant	Sharr
11-N	11A	FT III non-perm	-	dina-	3.0	240	CORDOVA	Vacant	Sharr
11-N	11A	FT III non-perm		-	3.0	240	· CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm	1.0	30	2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm	1.0	30	2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm	1.0	30	2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm	1.0	30	2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm	1.0	30	2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm	-	***	2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm			2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm			2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm	-	-	2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm	-	-	2.5	200	CORDOVA	Vacant	Sharr
11-N	9A	FT II non-perm			2.5	200	CORDOVA	Vacant	Sharr

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71000 PERSONAL SERVICES - LIST POSITIONS (AMOUNTS WILL BE CALULATED FOR YOU)

DOMAID	DANCE			ot	8	OT		T the second second second second second second second second second second second second second second second	
NEW	STEP	CLASSIFICATION	MONTH	HOUR	MONTH	HOUR	LOCATION	INCUMBENT	SUPERVISOR
11-N	9A	FT II non-perm	-	-	2.5	200	CORDOVA	VACANT	Sharr
11-N	9A	FT II non-perm	•. =	-	2.5	200	CORDOVA	VACANT	Sharr
11-N	9A	FT II non-perm	-	**	2.5	200	CORDOVA	VACANT	Sharr
11-N	9A	FT II non-perm			2.5	200	CORDOVA	VACANT	Sharr
11-N	9A	FT II non-perm		4674	2.5	200	CORDOVA	VACANT	Sharr
11-N	9A	FT II non-perm	*	ac5.	2.5	200	CORDOVA	VACANT	Sharr
11-N	9A	FT II non-perm	-	~	2.5	200	CORDOVA	VACANT	Sharr
11-N	9A	FT II non-perm	-	11 0	2.5	200	CORDOVA	VACANT	Sharr
11-N	9A	FTII non-perm	C10	-	2.5	200	CORDOVA	VACANT	Sharr
11-N	9A .	FT II non-perm	-	-	2.5	200	CORDOVA	VACANT.	Sharr
11-N	9A	FT II non-perm	-	-	2.5	200	CORDOVA	VACANT .	. Sharr
11-N	9A	FT II non-perm		6 -	3.0	180	CORDOVA .	VACANT .	Sharr
								• • •	
11-N185	13A	RA1non-perm	-	-	2.0	47	CORDOVA	Rosen	Sharr
		,							
					4				
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2000 TRAVEL	DESCRIPTION	<u> </u>	4 MOS	8 MOS	12 MOS
72240 Field Travel				·	
72270 Administrative Travel	Cordova - Anchorage 3 RT's	•	0.3	0.6	· 0.9
72300 Conventions & Meeting Travel	Cordova - Juneau 1 RT	••••	0.2	0.2	0.4
72360 Moving or Relocation Expense					
72500 Per Diem	21 Days Per Diem		0.5	1.6	2.1
		SUBTOTAL	1.0	2.4	3.4

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73000 CONTRACTUAL	DESCRIPTION	 4 MOS	8 MOS	12 MOS

		•				
73100 Professional Services	Weir labrication, aluminum welding.		3.0	1.0	4.0	
73300 Communication	Telephone, postage.		0.4	0.8	1.2	
73400 Transportation	Aircraft charters for field camps & surveys.		2.0	55.0	57.0	•
73420 Trans-State Equip Fleet Fees	DOT P/U Truck lease @ \$350/month.		0.7	1.8	2.5	
3500 Advertising, Printing & Binding			•			
73600 Public Utilities Services	Share of office, bunkhouse, warehouse utilities.		0.8	1.6	2.4	
73700 Minor Repair & Maintenance	Outboard motor, generator, computer repair.		2.0	2.0	4.0	•
73800 Rental-Land, Buildings & Space						
73860 Rental-Machinery & Equipment						
73900 Other Expenditures & Services	Vessel charter for camp resupply runs.		3.0	20.0	23.0	
		SUBTOTAL	11.9	82.2	94.1	

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74000 SUPPLIES	DESCRIPTION		4 MOS	8 MOS	12 MOS
74220 Office & Library Supplies	Binders, no-tear paper, pencils.		4.0	1.0	5.0
74520 Professional & Scientific Supplies					
74560 Data Processing Supplies	Paper, diskettes.		0.3	0.3	0.6
74600 Other Operating Supplies					0.0
74650 Repair & Maintenance Supplies					0.0
OTHER	Food for field camps @ \$15/person/day.		2.5	40.0	42.5
OTHER	Fuel for camps.		1.5	4.5	6.0
OTHER	Lumber for camps.		1.5	1.5	3.0
OTHER	Boots,raingear,gloves. \$100/person		2.6	4.0	6.6
		SUBTOTAL	12.4	51.3	63.7

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75000 EQUIPMENT	DESCRIPTION	8 MOS	4 MOS	12 MOS
75750 Vehicles & Transportation Equip	Outboard engines.	3.9	5 1.5	5.0
75790 Communication Equipment	Handheid radios.	2.7	7	2.7
75830 Data Processing Equipment	Software upgrades, equipment upgrades.		2.0	2.0
75870 Laboratory & Scientific Equip	Knives, thumb counters, polaroid glasses, misc. gear.		2.0	· 7.0
75940 Special Equipment	Camp equipment, tools, pumps, generators.		2.0	7.0
76050 Furniture & Office Equipment	Bookcases, file cabinets for OSIAR office.		3.0	3.0
OTHER				0.0
OTHER				0.0
OTHER				0.0
е. 9	SUBTOT	AL 16.	2 10.5	26.7

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Page 1

PROJECT:	Biometric Support for R60B	PROJECT LEADER:	Brannian	
PROJECT NO:	R60B	LOCATION:	Anchorage	PHONE: 267-2118

REQUEST

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LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	2.9	30.2	33.1
72000	0.0	2.4	2.4
73000	0.1	0.9	1.0
74000	0.0	0.4	0.4
75000	0.0	0.8	0.8
TOTAL	3.0	34.7	37.8

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

Includes 1 mm Biometrician II, 1 mm Biometrician I, and 1 mm Analyst/Programmer II.

71000 PERSONAL SERVICES - LIST POSITIONS

Biometric Support for R60B

Page 2

PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	4 MO	B MO	LOCATION	INCUMBENT	SUPERVISOR
1271	19E	Biometrician II	0.5	1.5	Anchorage	Bue	Brannlan
7072	17B	Blometrician I		1	Anchorage	Evans	Bue
7087	15A	Analyst/Programmer		4			
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FULL TIME EQUIVALENTS - FTEs (Months/12):

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	Biometric Support for R60B			Page 3
72000 TRAVEL	DESCRIPTION	4 MOS	8 MOS	12 MOS
72240 Field Travel	3 Trips Cordova	0.0	0.6	0.8
72270 Administrative Travel	2 Trips Juneau	0.0	1.0	1.0
72300 Conventions/Meeting Travel		0.0	0.0	0.0
72360 Moving/Relocation Expenses		0.0	0.0	0.0
72500 Per Diem	Per Diem	0.0	0.8	0.8
		0.0	0.0	0.0
	SUBTOTAL	0.0	2.4	2.4
73000 CONTRACTUAL	DESCRIPTION	4 MOS	8 MOS	12 MOS
73100 Professional Services		0.0	0.0	0.0
73300 Communication	Telephone; Data Line; Postage	0.0	0.0	0.0
73400 Transportation	Alr Charter; Air Freight	0.0	0.0	0.0
73420 Trans-State Equip Fleet Fees		0.0	0.0	0.0
73500 Advertising, Printing, Binding	Visual Aid Preparation; Special Printing	0.0	0.0	0.0
73600 Public Utilities Services		0.0	0.0	0.0
73700 Minor Repair/Maintenance		0.0	0.0	0.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment		0.0	0.0	0.0
73900 Other Expenditures & Services	Literature Search	0.0	0.0	0.0
		0.0	0.0	0.0
	SUBTOTAL	0.1		70.5

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	Blometric Support for R60B			Page 4
74000 SUPPLIES	DESCRIPTION	4 MOS	B MOS	12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies	Scientific Reference Material	0.0	0.0	0.0
74560 Data Processing Supplies	Computer Paper; ribbons, etc.	0.0	0.0	0.0
74600 Other operating Supplies	Software	0.0	0.0	0.0
74650 Repair & Maintenance Supplies	Computer Repair	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
<u> </u>	SUBTOTAL	0.0	0.4	0.4
75000 EQUIPMENT	DESCRIPTION	4 MOS	8 MOS	12 MOS
75750 Vehicles & Transportation Equip	• • • • • • • • • • • • • • • • • • •	0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment	Microcomputer Parts	0.0	0.0	0.0
75870 Laboratory & Scientific Equip		0.0	0.0	0.0
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment	File Cabinets	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	SUBTOTAL	0.0	0.8	0.8

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ALASKA DEPARTM 2 FISH & GAME

ÖY4

Page 1

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Biometric Support for R60A	PROJECT LEADER:	Brannian	
••	· · · · ·		
R 60 A	LOCATION:	Anchorage	PHONE: 267-2118
	Biometric Support for R60A R 60 A	Biometric Support for R60A PROJECT LEADER: R 60 A LOCATION:	Biometric Support for R60A PROJECT LEADER: Brannian R 60 A LOCATION: Anchorage

REQUEST

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	10.9	31.0	41.8
72000	0.0	3.9	3.9
73000	0.4	1.0	1.3
74000	0.0	0.6	0.6
75000	0.2	0.8	1.0
TOTAL	11.4	37.3	48.7

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

Includes 0.3 mm Biometrician II, 6 mm Biometrician I, and 3 mm Analyst/Programmer II.

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71000 PERSONAL SERVICES - LIST POSITIONS

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Biometric Support for R60A

Page 2

PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	4 MO	8 MO	LOCATION	INCUMBENT	I SUPERVISOR
1271	19E	Biometrician II	0.3	0	Anchorage	Bue	Brannlan
7072	17B	Biometricain I	2	4	Anchorage	Evans	Bue
7087	15A	Analyst/Programmer II		3			
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FULL TIME EQUIVALENTS - FTEs (Months/12):

	Biometric Support 60A			Page 3
72000 TRAVEL	DESCRIPTION	4 MUS	8 MUS	12 MUS
72240 Field Travel	3 Trips Cordova	0.0	0.7	0.1
72270 Administrative Travel	2 Trips Juneau	0.0	1.0	1.0
72300 Conventions/Meeting Travel	1 Trip Seattle	0.0	1.0	1.0
72360 Moving/Relocation Expenses		0.0	0.0	0.0
72500 Per Diem	Per Diem	0.0	1.2	1.5
		0.0	0.0	0.0
<u> </u>	SUBTOTAL	0.0	3.9	3.9
73000 CONTRACTUAL	DESCRIPTION	4 MOS	8 MOS	12 MOS
73100 Professional Services		0.0	0.0	0.0
73300 Communication	Telephone; Data Line; Postage	0.0	0.0	0.0
73400 Transportation	Air Charter; Air Freight	0.0	0.0	0.0
73420 Trans-State Equip Fleet Fees	······································	0.0	0.0	0.0
73500 Advertising, Printing, Blnding	Visual Ald Preparation; Special Printing	0.0	0.0	0.0
73600 Public Utilities Services		0.0	0.0	0.0
73700 Minor Repair/Maintenance		0.0	0.0	0.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment		0.0	0.0	0.0
73900 Other Expenditures & Services	Literature Search	0.0	0.0	0.0
		0.0	0.0	0.0
	SUBTOTAL	0.4	1.0	90.0

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	Biometric Support for R60A			Page 4
74000 SUPPLIES	DESCRIPTION	4 MOS	8 MOS	12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies	Scientific Reference Material	0.0	0.0	0.0
74560 Data Processing Supplies	Computer Paper; ribbons, etc.	0.0	0.0	0.0
74600 Other operating Supplies	Software	0.0	0.0	0.0
74650 Repair & Maintenance Supplies	Computer Repair	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	ISUBTOTAL	0.0	0.6	0.6
75000 EQUIPMENT	DESCRIPTION	1 4 MOS	8 MOS	12 MOS
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment	Microcomputer Parts	0.0	0.0	0.0
75870 Laboratory & Scientific Equip		0.0	0.0	0.0
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment	File Cabinets	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
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PROJECT:	Harbor Seal	Restoration	PROJECT LEADER:	Kathryn J. Fros	t
PROJECT NO:	R 73		LOCATION:	Fairbanks	PHONE: 456-5156

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	28.3	53.5	81.8
72000	5.0	5.0	10.0
73000	18.2	47.3	65.5
74000	6.5	46.5	53.0
75000	0.0	0.0	0.0
TOTAL	l	<u> </u>	210.3

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REQUEST

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type (information needed.

COMMENTS: This project will investigate habitat use and recovery from the PWS oil spill by harbor seals. Harbor seals are an important subsistence species and are enjoyed by tourists and recreationa users. They are protected by the Marine Mammal Protection act, and if an ongoing, widespread decline continues, may be additionally protected by the Endangered Species Act. Two hundred seals were estimated to have died because of the spill. Trend counts in oiled areas were 35% lower in 1990 than they were in 1988. There has been no evidence of natural recovery. Primary objectives of this study are 1) conducting aerial surveys of harbor seals during the fall molt at 25 trend count sites in PWS. The surveys will monitor recovery from the spill, 2) Attaching 20 satellite-linked transmitters (10 in May 92 and 10 in September 92) to determine movements, haulout patterns, and diving behavior. This information will allow us to determine important feeding areas, help interpret aerial surveys, better understand the importance of certain haulouts, and recommend management action to facilitate recovery from the spill.

71000 PERSONAL SERVICES - LIST POSITIONS

PCN/NP/ NEW	RANGE/	CLASSIFICATION	MOS	LOCATION	I INCUMBENT	SUPERVISOR
2115	18F	WB III	6.0	FAIRBANKS	FROST	SCHOEN
2137	17A	AP III	1.0	FAIRBANKS	DELONG	REED
7063	16D	WB II	6.0	ANCHORAGE	LEWIS	CALKINS
2113	18K	WB III	1.0	FAIRBANKS	LOWRY	SCHOEN
2125	14K	WTV	2.0	ANCHORAGE	MCALLISTER	SCHNEIDEL.
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FULL TIME EQUIVALENTS - FTEs (Months/12): 1.3

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Page 2

				Page 3
72000 TRAVEL	DESCRIPTION	4 Mos	8 Mos	12 MOS
72240 Field Travel	14 TRIPS ANCH/FBKS/VAL/CORD	1.9	1.6	3.5
72270 Administrative Travel		0.0	0.0	0.0
72300 Conventions/Meeting Travel	4 TRIPS FBKS/ANC & LWR 48	1.0	0.6	1.6
72360 Moving/Relocation Expenses	· · · · · · · · · · · · · · · · · · ·	0.0	0.0	0.0
72500 Per Diem	FIELD AND MEETING	2.1	2.8	4.9
en		0.0	0.0	0.0
•••••	SUBTOTAL	5.0	5.0	10.0
73000 CONTRACTUAL	DESCRIPTION	4 mos	8 Mos	12 Mos
73100 Professional Services	-	0.0	0.0	0.0
73300 Communication	TELEPHONE, FAX, POSTAGE	0.2	1.2	1.4
73400 Transportation	VESSEL, AIRCRAFT, FREIGHT	17.3	20.6	37.9
73420 Trans-State Equip Fleet Fees	-	0.0	0.0	0.0
73500 Advertising, Printing, Binding	COPYING, GRAPHICS, PRINTING	0.2	1.0	1.2
73600 Public Utilities Services	-	0.0	0.0	0.
73700 Minor Repair/Maintenance	EQUIPMENT REPAIR (BOATS, MOTORS	0.5	2.0	2.5
73800 Rental-Land/Buildings/Machinery	•	0.0	. 0.0	0.0
73860 Rental-Machinery/Equipment	-	0.0	0.0	0.0
73900 Other Expenditures & Services	DATA ACQ. FROM SERVICE ARGOS	0.0	22.5	22.5
	·	0.0	0.0	0.0
	SUBTOTAL	18.2	47.3	65.5

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74000 SUPPLIES	DESCRIPTION	4 Mos	8 Mos	Page 4 12 MOS
74420 Office & Library Supplies	GEN & GRAPHIC SUPPLIES, PAPER	0.2	0.5	0.7
74520 Professional/Scientific Supplies	FILM, LAB & BLOOD COLL. SUPPLIE	0.5	1.0	1.5
74560 Data Processing Supplies	SOFTWARE, DISKETTES, SP. AREAS	0.8	2.0	2.8
74600 Other operating Supplies	VESSEL FUEL, OIL ETC. GLUES	2.5	1.0	3.5
74650 Repair & Maintenance Supplies	BOAT PROPS, PARTS, NET MATER.	1.5	0.5	2.0
OTHER	SEAL CATCHING NETS	0.0	1.0	T.v
OTHER	SATELLITE-LINKED TRANSMITTERS	0.0	40.0	40.0
OTHER	GROCERIES	1.0	0.5	1.5
	SUBTOTAL	6.5	46.5	53.0
75000 EQUIPMENT	DESCRIPTION	4 Mos	8 Mos	12 MOS
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment	·	0.0	0.0	0.0
75870 Laboratory & Scientific Equip		0.0	0.0)
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment		0.0	• 0.0	0.0
OTHER	· · · · · · · · · · · · · · · · · · ·	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	SUBTOTAL	0.0	0.0	0.0

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Archaeological Resources Protection (Rive)

At least 35 archaeological sites were injured by direct oiling, beach treatment and clean-up activities, and site vandalism. Increased public knowledge of exact site locations is fostering continued injury from vandals. Inherently, these resources are not completely restorable thus, stopping the continued injury from vandalism is extremely important. The project will create a site stewardship program which recruits, educates and involves local people, from throughout the spill zone, in the process of protecting archaeological resources. This will be accomplished by building upon a fledgling program in the Kodiak area and expanding the effort throughout the spill zone. Additionally, agency staff will expand their efforts, in a complementary fashion, through the presence of trained individuals in the field to deter people from further looting the sites.

Component A: Site Stewardship

BUDGET

Personal Services (Salaries and Benefits)

	Project Coordinator			
	Range 18L	6 months	\$	36,100
	Education Specialist			
	GS-11	4 Months	\$	14,800
	Archaeologist GS-9	3 Months	Ś	9,300
	Archaeologist GS-12	1 Month	Ś	5,200
	Subtotal	14mm=1.2FTE	\$	65,400
<u>[rav</u>	el (Airfare and Per Diem)			
	Two persons round trip	to Phoenix 5 days	c	2 141
	(To study Arizona p	program)	4	~, 141
	Two persons, round trip	to Kodiak, 2 days	\$	1,232
	(To study KANA prog	ram)		·
	Three persons, round tri	p to each of Kodiak,		
	Seward, Homer, and	Cordova, 2 days each		
	(Public meetings) ¹	· •	\$	5,031
	Two persons two round tr	ips to each of Kodiak,		
	Seward, Homer, and	Cordova, 2 days each		
	(Site steward coord	ination and quality		
	control)		S	6,946
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¹ Educational efforts will be coordinated with the National Park Service's "Public Information and Education Project" (restoration proposal #R118)

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ຽນ	btotal, Travel	\$ 15,350
Supplie	<u>5</u>	
Di Ba Mi Su	sposable cameras (3/steward, 50 stewards) seball Caps w/logo (50) scellaneous office supplies, film, etc. btotal, Supplies	\$ 2,250 \$ 500 \$ 1,500 \$ 4,250
Equipme	nt	
Ca La Su	mera, lenses, and case (project coordinator) ptop personal computer (project coordinator) btotal, Equipment	\$ 1,500 \$ 2,500 \$ 4,000
<u>Contrac</u>	tual	
Fi Ch Tr Co	<pre>lm processing arter aircraft (20 hours @ 250/hour) aining material production ntracts with Native corporations and community groups to provide local local</pre>	\$ 2,000 \$ 5,000 \$ 16,000
	stewards and project staff	\$ 23,0 00
Su	btotal, Contractual	\$ 46,000
To	tal, Site Stewardship	\$135,000
Compone	nt B: Site Patrol and Monitoring	
BUDGET		
Persona	l Services (Salaries and Benefits)	
1 Ra 9.5 GS	nge 18L Project Coordinator 6 months -7 Field Archaeologists and Resource	\$ 36,100
Pr I GS	otection Specialists 2.75 months -11 Archaeologist 1.5 months	\$ 64,500
1 GS	-12 Law Enforcement Ranger 1 month	\$ 4,800
Su	btotal 34.63mm=2.88 FTE	\$112,400
Travel	(Airfare and Per Diem)	, tr
On 3	e person round trip St. Louis to Anchorage days to train field personnel	\$ 1,454
.		
TW Se da	ward, Homer, and Cordova/Valdez, 3	

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Eight people round trip (2 each from Kodlak, Seward, Homer, Cordova/Valdez) to Anchorage	¢	B 300
S days (to attend project training)	*	9,300
Subtotal, Travel	\$	17,700
Supplies	•	
Film and videotapes	S	1,500
Miscellaneous office supplies, etc.	Ś	450
Marine fuel (for agency vessels)	\$	11,500
Subtotal, Supplies	\$	13,450
Contractual		
Film processing	S	2.000
Charter aircraft (255 hours @ \$250/hour)	\$	63,750
Martin McAllister professional fee		
(for training)	\$	700
Subtotal, Contractual	Ş	66,450
Total, Agency Site Patrol and Monitoring	\$:	210,000

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PROJECT: Dolly Varden/Cutthroat Restoration PROJECT LEADERS: Andy Hoffmann, David Schmidt

PROJECT NO: R106 (COMBINED ADF&G/USFS BUDGETS) LOCATION: ANCHORAGE/CORDOVA PHONE: 267-2238/424-7661

LINE ITEM	ADF&G	USFS	TOTAL
Personnel	182,000	8,576	190,576
Travel	9,600	360	9,960
Contracts	44,000	1,600	45,600
Supplies	40,500	270	40,770
Equipment	0	0	0
TOTAL	276,100	10,806	286,906

REQUEST

This is the OY4 budget request for the above project.

Detailed budgets for each agency follows.

DESCRIPTION/JUSTIFICATION:

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The Natural Resource Damage Assessment (NRDA) program, Study #5, documented both lowered survival and reduction in growth to Dolly Varden and cutthroat trout in Prince William Sound (PWS). The additional mortality from the oil spill has caused concern that some of the oil impacted stocks may be unable to sustain historical levels of fishing. Because of the importance of Dolly Varden and cutthroat trout to the recreational fisheries in PWS, the Division of Sport Fish, (ADF&G) and U.S. Forest Service recommends the development of a management plan for directing human use in order to aid

in the recovery of these species and replace lost recreational opportunities. The most effective method to enhance the recovery of the oil impacted stocks while maintaining pre-spill levels of angling opportunities is to provide for angling effort outside of the oil impacted areas. It is imperative to collect the necessary data on populations outside of the oil impacted areas to avoid causing a decline in these population by increasing harvest. Information collected by this project will provide the basis for the development of a management plan for these species. This plan will aid in the recovery of, and protect the biological integrity of wild stocks and provide recreational benefit to all users. Research will be conducted on six major Dolly Varden and cutthroat trout populations in PWS. The information gathered will include population abundance, length composition and stock contribution to important sport fisheries.

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PROJECT 1	NO:	R106	ADF&G	BUDGET	LOCATION:	Anchorage	PHONE:	267-2238

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	82,000	100,000	182,000
72000	3,400	6,200	9,600
73000	31,000	13,300	44,300
74000	32,000	8,500	40,500
75000	0	0	0
TOTAL	148,400	128,000	276.400

REQUEST

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

DESCRIPTION/JUSTIFICATION:

The Natural Resource Damage Assessment (NRDA) program, Study #5, documented both lowered survival and reduction in growth to Dolly Varden and cutthroat trout in Prince William Sound (PWS). The additional mortality from the oil spill has caused concern that some of the oil impacted stocks may be unable to sustain historical levels of fishing. Because of the importance of Dolly Varden and cutthroat trout to the recreational fisheries in PWS, the Division of Sport Fish, (ADF&G) and U.S. Forest Service recommends the development of a management plan for directing human use in order to aid

in the recovery of these species and replace lost recreational

opportunities. The most effective method to enhance the recovery of the oil impacted stocks while maintaining pre-spill levels of angling opportunities is to provide for angling effort outside of the oil impacted areas. It is imperative to collect the necessary data on populations outside of the oil impacted areas to avoid causing a decline in these population by increasing harvest. Information collected by this project will provide the basis for the development of a management plan for these species. This plan will aid in the recovery of, and protect the biological integrity of wild stocks and provide recreational benefit to all users. Research will be conducted on six major Dolly Varden and cutthroat trout populations in PWS. The information gathered will include population abundance, length composition and stock contribution to important sport fisheries.

US Forest Service Detailed Budget (Rivo)

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Personnel: Fisheries Biologist (GS-11) Fisheries Technician (GS-7) 4 Technicians (GS 3-5) Total FTE's: 0.373	Total Days 2 15 80	Cost 326.00 1,725.00 6,525.00
Travel/Per Diem:		
3 persons @ Stump Lake	•	
SID/day	3	135.00
S persons e clear creek \$15/day	5	225.0 0
Contracts:		
Charter Flight to Stump Lake \$400.00/hr	4 hours	1,600.00
Supplies:	OTY	
Waders, boots \$135.00/pr	2 pair	270.00
Equipment: No new equipment needed		
Tota	1 Coste.	10 806 00

Public Information and Education (R118)

This project will design and develop information available from the damage assessment and restoration process to inform the public of ways they can help injured resources recover from the effects of the spill and the resulting cleanup efforts. Specifically, the information will explain changes to the ecosystem and how people can lessen their potential for creating additional harmful human disturbance. The information will be delivered through brochures, posters, video, enhancement of school curricula, and other informational media. The materials will be delivered to state and federal visitor centers, state ferries, and cooperating private businesses and organizations throughout the entire spill zone. The project will seek to recognize restoration within the context of the entire ecosystem, rather than through a species-specific approach.

Budget:

Personal Services:

\$57,500

· 🛃	8	Work Months GS-9,	
		Environmental Specialist (Permanent)	\$35,400
*	1	Work Month GS-11,	
		Forest Ranger (Permanent)	4,300
*	3	Work Months GS-7, Biologist (Seasonal)	6,800
*	3	Work Months GS-5, Biologist (Seasonal)	5,500
*	3	Work Months GS-5, Secretary (Seasonal)	5,500
		18 Work Months = 1.5 FTE = \$57,500	

Travel & Per Diem:

* Staff and Representative Travel 12,000

Contractual:

\$124,500

*	Slide duplication - 12 copies x 100	1,400
*	Convert slide program to video tape with voice	700
	* Duplicate slide tape - 30 copies	400
×	Graphic artist - develop two posters	15,000
	* Print 10,000 copies (5000 each)	20,000
Ħ	Graphic artist - develop brochures	12,000
	* Print 30,000 copies	30,000
*	Print fact sheets (5) x 10,000 copies	3,000
¥	Develop new slide program	5,000
	* Slide duplication 12 copies x 100	1,500
¥	Convert slide program to video tape with voice	900
	* Duplicate slide tape - 30 copies	600
*	Develop educational materials for schools	22,000
*	Additional printing costs for 1993 distribution	12,000

\$12,000

Supplies:

ŧ	Data processing supplies (graphics software)	800
×	Office and library supplies	700
×	Mailing costs	4,500

Equipment:

* None required

TOTAL PROJECT COST

\$200,000

Note: An interagency agreement between the National Park Service and the Environmental Protection Agency (EPA) is already in place for this project. The EPA is supporting the project with partial funding in the amount of \$20,000. Use of these funds must be made by September 30, 1992, under the terms of the agreement.

TOTAL PROJECT REQUEST

\$180,000

Project Title:

Study ID Number:

Project Leader:

PAULSON CREEK THE PASS

11.1.11

R37

Kate Wedemeyer, USFS

Improving fish passage at the Paulson Creek Fish Pass would provide access to unutilized habitat for anadromous Dolly Varden char, wild pink salmon and wild chum salmon. The fishery habitat enhancement potential of Paulson Creek has long been recognized by the U S Forest Service and the Alaska Department of Fish and Game. In 1969 and 1970 they cooperated in construction of diversion dams to confine the upper intertidal stream to one of three channels to allow adequate winter flows for egg survival.

Additional potential fisheries enhancement was identified at a four-foot falls 1/4 mile upstream and a steep pass was installed in 1982. The steeppass orignally installed proved to be ineffective in passing fish during low to moderate flows and was modified in 1989. Monitoring in 1991 indicated that additional modifications are required to successfully pass Dolly Varden, pinks and chum at low to moderate flows. Last year, surveys by ADF4G Sport Fish personnel indicated very low populations of Dolly Varden above the fishpass.

Additional values for recreation and for pink and chum salmon would accrue from improving fish passage on Paulson Creek. Paulson creek drains into Cochran Bay which is one of the most popular recreational destinations in Prince William Sound. The Forest Service cabin at the creek receives extensive use.

Previous Forest Service surveys indicated that the Creek is 1.5 miles long, averages 15 feet in width and 1 foot in depth and contained 66,000 sqare feet of spawning gravel above the barrier falls. This would provide habitat able to produce an estimated 160 Dolly Varden (which would then have access to marine resources for summer feeding) and 25,000 pink and chum salmon.

Yearly values for Dolly Varden is calculated at \$700, salmon at \$25,000 per year (odd years only) for sport fish and commercial values. Thus, yearly values for wild fish are calculated at \$26,000 per year. Allowing for gradual increases in the salmon populations, total benefits over 25 years would be \$250,000. S Detailed Budget for R37



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TOTAL PTE'S - (0.115				
PERSONNEL					
fish biologist	GS- 9	7 days	€ \$165	\$1,155	
-	GS-12	l day	€ \$214	214	
engineer	GS-11	5 days	€ \$200	1,000	
technicians	GS-7	7 days	€ \$125	875	
	GS-5	5 days	e \$ 9 0	450	
	GS-5	5 days	ê \$ 9 0	450	
					-
				\$4,144 sub tota	1
TRAVEL, PER DI	em & Ho	TEL			
Misc. trave	el/perd	iem		\$ 300	
CONTRACTS					
boat charte	er @ \$1	000/day		\$3,000	
SUPPLIES					
Concrete, C	Sabions	, Form I	Lumber, Misc	\$2,000	
				م ب ر به به به به به به به به به به به به به	

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Project Title:

Study ID Number:

Project Leader:

OTTER CREEK FISH PASS

R41

Kate Wedemeyer, USFS

The project is to expand the fish pass on a barrier falls on Otter Creek, Bay of Isles, Knight Island. Presently there is an Alasks steep pass, built in 1982, that allows Cuthroat trout and Pink salmon past the lower falls. A July 1991 monitoring trip indicated, however, that Cuthroat trout and pink salmon would be unable to move past a 5-foot vertical falls upstream of the steep pass. The Forest Service is considering modifying this falls and two five foot cascades for easier fish passage to the upper portions of the stream (80 square meters of spawning habitat), a 55 acre lake and a 3 acre pond. This would provide habitat able to produce an estimated 2,000 sockeys salmon, 2,000 pink salmon, 500 cuthroat trout (which would then have access to marine resources for summer feeding) and 400 coho salmon.

Yearly values for cutthroat trouts are calculated at \$900, sockeye at \$21,000 and pinks at \$2,000 per year for commercial and sport fish values. Thus, yearly values for wild fish are calculated at \$23,900 per year or in excess of \$310,000 over 13 years (expected remaining lifespan of the fishpasses built downstream). Benefits from sockeye and coho would require reactivating an earlier plan with the state department of Fish and Game and the Prince William Aquaculture Association to establish self-supporting runs in this location.

The feasibility of building fish passage structures has been well demonstrated in Alaska. Presently, the Glacier Ranger District of the Chugach National Forest administers 8 fish passage projects in western Prince William Sound. The proper functioning of the steep pass sections downstream of the falls and cascades demonstrates the feasibility in this location.

The project would require two years to construct with an additional four years _ of stocking and three years of monitoring.

Prelimina	273	7 cost 1991	-1996 Budget estimates include:
1991-	\$	6,000	fisheries surveys
1992-	\$	44,563	engineering surveys, design, fisheries surveys, EA (see 1992 budget detail below)
1993-		?	estimated construction cost dependent on design Could range from \$25,000 to \$150,000.
1994-	\$	9,000	monitoring of fish populations and fish passage
1995		10,000	monitoring of fish populations and fish passage
1996	\$	11,000	monitoring of fish populations and fish passage

E

1992 Budget Detail

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Salary *			
Fish Bio (GS-9) 22 days x \$165	=3630		
OT	- 400		
Fish Bio (GS-12) 22 days x \$214	=4708		
OT	= 500		
Engineer (GS-11) 16 days x \$225	=3600		
Survey Crew (GS-9.4.4) 4e y \$500	=2000		
Techniciane ($GS-7$) 15dave v \$125	-1975		
Tota?	-1013		\$16.713
			4101113
Contracts			
charter flights 4 @ \$1500	6.000		
2 people to Otter Creek			
charter boat			
4 people for 10 days	10.000		
Commerical flights Anch-Cordova	900		
2 mentie to RPT meeting	200		
train Portago_Whittiar	1 500		
hote vahiales mente	1,500		18 300
boards venicies, people			19,300
Fruitment			
Roat cafety equintment	\$00		
ronair & micc cunnline	500		
marine exertive? equint	700		
merrie enterver edurbe	300		
	700		2 500
comforet sotraste	,00		2,000
Travel and ner diam			
botel, per diem. Cordova			
and Whittier	4.000		
Dereilers for 2 mo & \$30/der	1,800		5 800
	1,000		2,000
Supplier			
host fuel	700		
field food	300		
shata reproduction	150		1 150
photo, reproduction	130		2,130
Total			\$44 563
20181			9
FIE's by Quarter			
Bio Bio Eng Surv Tech	OT	Total dave	PTE
March-May 5 5 2 16	4	28	.10
June-Aug 10 10 2 10	12	- 32	.12
Sept-Nov 2 2 10 5	2	19	.07
Dec-Feb 5 5 2	ī	12	.05
	-		
Total FTE			0.34



USFS Detailed Budget for Montague Island Chum Salmon Restoration and Re-introduction.

Project #: R45

This project is aimed at restoring sef-sustaining populations of chum salmon on Montague Island. During fiscal 92, continued monitoring of 6 historic chum salmon producing streams will occur as well as coordination with ADF&G and PWSAC for identifying a brood source, initiating a remote egg take of chum slamon for culture, and conducting a pre-emergent fry dig at Chalmer's River. Sites will be identified for instream structures to help moderate flows and reduce erosion. These structures would lessen egg displacement and spawning bed siltation. Stand pipes will be installed at potential spawning channel sites to determine groundwater levels.

Total FTE's = 0.623

Personn	e	1	:
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Fisheries Biologist (GS9 & 11)	60	8,940
Fisheries Technician (GS7)	40	4,600
Fisheries Technician (GS5)	2 2	1,870
Technicians (2 GS4, 2 GS3)	40	3,100
Travel/Per Diem:		
4 personnel on Montague Is.		
at \$15.00/day	20	1,200
2 persons on egg take trips	10	600
2 persons on fry dig	2	60
Contracts:		

5	\mathbf{RT}	flights	6	\$400/hr	lOhr	4,	,000
2	RT	flights	6	\$300/hr	4hr	1,	,200

Total Cost: \$25,570

UY4

PROJECT: Instream Habitat & Stock Restoration PROJECT LEADERS: Mark Willette, Kate Wedemeyer, Nick Dudiak, Lorne White PROJECT NO: R105 (COMBINED ADF&G/USFS BUDGETS) LOCATION: C Cordova PHONE: (907) 424-3214

783-3242

REQUEST

LINE ITEM	ADF&G	USFS	TOTAL
PERSONNEL	141,646	36,370	178,016
TRAVEL	5,480	9,900	15,380
CONTRACTS	119,470	40,460	159,930
SUPPLIES	27,900	3,240	31,140
EQUIPMENT	47,950	1,400	49,350
TOTAL	\$342,446	\$91,370	\$433,816

This is OY4 budget request for the above project.

DETAILED BUDGETS FOR EACH AGENCY FOLLOW.

DESCRIPTION/JUSTIFICATION:

This project will focus on determining the most appropriate restoration techniques for damaged salmon spawning habitats and stocks. Salmon spawning streams within the Exxon Valdez oil spill (EVOS) impact area will be surveyed, appropriate restoration techniques will be recommended for specific sites, project engineering and design work will be completed, and project proposals will be developed. The survey will be conducted cooperatively by the ADFG and U.S. Forest Service. Appropriate restoration techniques may include spawning channels and improvement of fish passage through fish ladders or step-pool structures to overcome physical or hydrological barriers. These measures will provide oil-free spawning habitat to replace oil-impacted spawning areas. Additional wild salmon stock restoration measures may include stream-side incubation boxes, and remote egg-taking and incubation at existing hatcheries for fry stocking in oil-impacted streams. This project should be continued in 1992 because future restoration efforts are dependent on survey results.

The EVOS severely damaged wild pink and chum salmon populations in Prince William Sound (PWS). Various amounts of oil were deposited in intertidal habitats where up to 75% of the spawning occurs. Salmon eggs deposited in 1989 and all subsequent years have been contaminated and direct egg mortality documented. A higher incidence of somatic, cellular, and genetic abnormalities were also found among alevins and fry in oiled creeks.

Wild salmon fry were further damaged when they entered the nearshore marine environment and consumed oil-contaminated prey. This caused reduced growth and fry-to-adult survival, because predators targeted the smaller, slower growing fish. Migration patterns indicated that nearly all the salmon fry exiting PWS passed through heavily oiled habitats in the southwestern Sound. Diminished growth and survival during the early marine period may have reduced the salmon return to PWS in 1990 by 15 to 25 million fish. Recently detected genetic damages may further reduce the productivity and fitness of wild salmon populations in PWS for many years to come. UI4

Page 1

PROJECT: Instream Habitat & Stock Restoration PROJECT LEADER: Mark Willette, Nick Dudiak, Lorne White

PROJECT NO: R105 ADF&G BUDGET LOCATION: Cordova PHONE: (907) 424-3214

REQUEST

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	30,529	111,117	141,646
72000	1,000	4,480	5,480
73000	30,500	88,970	119,470
74000	6,800	21,100	27,900
75000	2,000	45,950	47,950
TOTAL	70,829	271,617	342,446

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

BUDGET SUMMARY INCLUDING BIOMETRIC SUPPORT COSTS.

DESCRIPTION/JUSTIFICATION:

This project will focus on determining the most appropriate restoration techniques for damaged salmon spawning habitats and stocks. Salmon spawning streams within the Exxon Valdez oil spill (EVOS) impact area will be surveyed, appropriate restoration techniques will be recommended for specific sites, project engineering and design work will be completed, and project proposals will be developed. The survey will be conducted cooperatively by the ADFG and U.S. Forest Service. Appropriate restoration techniques may include spawning channels and improvement of fish passage through fish ladders or step-pool structures to overcome physical or hydrological barriers. These measures will provide oil-free spawning habitat to replace oil-impacted spawning areas. Additional wild salmon stock restoration measures may include stream-side incubation boxes, and remote egg-taking and incubation at existing hatcheries for fry stocking in oil-impacted streams. This project should be continued in 1992, because future restoration efforts are dependent on survey results.

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TOTAL FTE'S = 0.788

	21	91.370
Pueros reproduction	340	J1240
Ilela 1000 Dioto, reproduction	1,300	8 940
marine survival training for techs	400	
boat fuel	1,200	
SUPPLIES		
buorographic .	300	1,400
DORT SUPPlies	600	1 /00
stadie rod, range finders, fieldbks, vests	500	
EQUIPMENT		
	·	-
in Whittier & Girdwood	4,000	39,500
housing for detailer, survey crews. techs		
10 days fish habitat surveys	25.000	
5 days fish bio. 10 days env surveys.		
LIGHTE, / COLDU & PED TO IWO host charter & \$1000/day	10,200	
CONTRACTS	10 600	
hotel, Cordova \$80 x 2peo x 1.5 day avg x 4 trips	960	10,860
boats, vehicles, people	1,100	
train Portage-Whittier		
commer flt, lower 48 to anch	900	
comm flight. Anch-Cordova 2 peo x 4 tribs	4.000	
2 Dec x 2 deve x 4 trine x \$60	960	
ner diam during travel to Cordove hive	\$1,00U	
detailer divuev erov \$30 v Anan v 14 Anve	\$1,20U \$1 480	
JARVEL, FER DIER & BUIEL datailar hint 7 date/uk - 4 mk - 20	¢1 940	
TRATE BED NEW L BOTEL		
		36,370
2 GS-7 x \$125 for 32 days	\$8, 0 00	
2 techs to assist biologist		
fish habitat surveys		
	- •	
GS-9,5,4,4, +\$500/day*	\$7,000	
engineering survey 2 weeks		
ularotokiet in gen 09-11	\$2,500	-
hedrological to don OS 11		
engineer 15 days GS-110 \$500	\$7,500	
65-12 30 Cays e \$214	\$6,420	
fish biologist GS-9 30 days @ 165 *	\$4,950	
PERSONNEL		

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ALASKA DEPARTMENT OF FISH & CAME

OY4

Page 1

PROJECT: Red Lake Restoration

PROJECT LEADER: Lorne White

LOCATION: Kodiak

PROJECT NO: R113

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	0.0	9.2	9.2
72000	0.0	0.9	0.9
73000	0.0	4.8	4.8
74000	0.0	6.6	6.6
75000	0.0	32.7	32.7
TOTAL	0.0	54.2	54.2

REQUEST

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

BUDGET SUMMARY INCLUDING BIOMETRIC SUPPORT COSTS.

COMMENTS: As a result of the Exxon Valdez oil spill in 1989 and the resulting commercial fishery closure on Kodiak Island, an escapement of 2.5 times the maximum desired level occurred at Red Lake. NRDA Study # 27 data indicates that this overescapement damaged the Red Lake sockeye resources through overabundance of rearing fry and subsequent poor freshwater survival. Data indicates that the adult return from 1989 parent sockeye will be significantly reduced in 1993, 1994 & 1995, and may provide below the desired minimum escapement and the commercial fishery would not occur, seriously impacting the local economy. Supplemental fry stocking would boost production during these years to normal run strength, restoring the Red Lake sockeye run. The cost to benefit ratio of this project is estimated to be greater than 1:3. It is important to start this project in OY4 to be prepared, at short notice, to implement outlined restoration measures at Red Lake if the 1993 return is below minimum escapement levels. These initial preparations to facilitate an egg take, hatchery production, and fry planting should begin as soon as possible.

PHONE: (907)486-4791

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71000 PERSONAL SERVICES - LIST POSITIONS

RANGE/ STEP	CLASSIFICATION	Mos	LOCATION	INCUMBENT	SUPERVISOR
9A	Fish & Wildlife Tech. II	0.0	Kodlak	Weimer	Clavenger
9A	Fish & Wildlife Tech. II	0.0	Kodiak	Rockwell	Clavenger
9B	Fish 4 Wildlife Tech. II	0.0	Kodlak	Swain	Clavenger
9C -	Fish & Wildlife Tech. II	0.0	Kodiak	Sands	Clavenger
11F	Fish & Wildlife Tech. III	0.0	Kodlak	Kansteiner	Clavenger
14B	Fish Culturist I	0.0	Kodiak	Schrof	Clavenger
9A	Fish & Wildlife Tech. II	0.0	Kodlak	Vacant	Clavenger
9A	Pish & Wildlife Tech. II	0.0	Kodlak	Stratton	Clavenger
11C	Fish 4 Wildlife Tech. III	0.0	Kodiak	Watchers	Clavenger
7 A	Fish 4 Wildlife Tech. I	0.0	Kodiak	Vacant	Clavenger
14A	Fishery Biologist I	0.0	Kodlak	Vacant	Clavenger
8D	Clerk/Typist III	1.5	Anchorage	Jean	Sloan
12A	College Intern IV	1.5	Anchorage	Simmons	Sloan
		0.0			
		0.0	a		
<u> </u>		0.0			
		0.0	•		· · ·
	RANGE/ STEP 9A 9A 9B 9C 11F 14B 9A 9A 9C 11F 14B 9A 11C 7A 14A 8D 12A	RANGE/ STEPCLASSIFICATION9AFish & Wildlife Tech. II9AFish & Wildlife Tech. II9BFish & Wildlife Tech. II9CFish & Wildlife Tech. II9CFish & Wildlife Tech. II11FFish & Wildlife Tech. III14BFish Culturist I9AFish & Wildlife Tech. II9AFish & Wildlife Tech. II14BFish & Wildlife Tech. II9AFish & Wildlife Tech. II9AFish & Wildlife Tech. II9AFish & Wildlife Tech. II11CFish & Wildlife Tech. II11AFishery Biologist I8DClerk/Typist III12ACollege Intern IV	RANGE/ STEPCLASSIFICATIONMOS9AFish & Wildlife Tech. II0.09AFish & Wildlife Tech. II0.09BFish & Wildlife Tech. II0.09CFish & Wildlife Tech. II0.09CFish & Wildlife Tech. II0.011FFish & Wildlife Tech. III0.014BFish Culturist I0.09AFish & Wildlife Tech. II0.09AFish & Wildlife Tech. II0.011CFish & Wildlife Tech. II0.012ACollege Intern IV1.512ACollege Intern IV1.50.00.00.0	RANGE/ STEPCLASSIFICATIONMOSLOCATION9AFish & Wildlife Tech. II0.0Kodiak9AFish & Wildlife Tech. II0.0Kodiak9BFish & Wildlife Tech. II0.0Kodiak9CFish & Wildlife Tech. II0.0Kodiak11FFish & Wildlife Tech. III0.0Kodiak11FFish & Wildlife Tech. III0.0Kodiak9APish & Wildlife Tech. III0.0Kodiak9APish & Wildlife Tech. II0.0Kodiak9APish & Wildlife Tech. II0.0Kodiak9APish & Wildlife Tech. III0.0Kodiak9APish & Wildlife Tech. III0.0Kodiak9APish & Wildlife Tech. III0.0Kodiak9APish & Wildlife Tech. III0.0Kodiak9APish & Wildlife Tech. III0.0Kodiak11CFish & Wildlife Tech. II0.0Kodiak12ACollege Intern IV1.5Anchorage0.00.00.00.0	RANGE/ STEPCLASSIFICATIONMOSLOCATIONINCUMBENT9AFish & Wildlife Tech. II0.0KodiakWeimer9AFish & Wildlife Tech. II0.0KodiakRockwell9BFish & Wildlife Tech. II0.0KodiakSwain9CFish & Wildlife Tech. II0.0KodiakSands11FFish & Wildlife Tech. III0.0KodiakSands11FFish & Wildlife Tech. III0.0KodiakSchrof9AFish & Wildlife Tech. II0.0KodiakVacant9AFish & Wildlife Tech. II0.0KodiakVacant9AFish & Wildlife Tech. II0.0KodiakVacant9AFish & Wildlife Tech. II0.0KodiakVacant11CFish & Wildlife Tech. II0.0KodiakVacant11CFish & Wildlife Tech. I0.0KodiakVacant14AFishery Blologist I0.0KodiakVacant8DClerk/Typist III1.5AnchorageJean12ACollege Intern IV1.5AnchorageSimmons0.00.00.00.00.00.0

FULL TIME EQUIVALENTS - FTES (Months/12): 0.25

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Page 2

				Page 3
72000 TRAVEL	DESCRIPTION	4 MOS	8 Mos i	12 MOS
72240 Field Travel	2 trips to Anchorage, 1 day ea.	0.0	0.4	0.4
72270 Administrative Travel	1 trip to Anchorage, 1 day	0.0	0.2	0.2
72300 Conventions/Meeting Travel		0.0	0.0	0.0
72360 Moving/Relocation Expenses	·	0.0	0.0	0.0
72500 Per Diem		0.0	0.3	0.3
99. White a second second second second second second second second second second second second second second s		0.0	0.0	0.0
	SUBTOTAL	0.0	0.9	0.9
73000 CONTRACTUAL	DESCRIPTION	4 Mos I	8 Mos I	12 MOS
73100 Professional Services	·····	0.0	0.0	0.0
73300 Communication	-	0.0	0.0	0.0
73400 Transportation	Rental vehicle, Air Taxi	0.0	1.5	1.5
73420 Trans-State Equip Fleet Fees		0.0	0.0	0.0
73500 Advertising, Printing, Binding		0.0	0.0	0.0
73600 Public Utilities Services		0.0	0.0	0.0
73700 Minor Repair/Maintenance		0.0	0.0	0.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment	Backhoe rental, 7 daysx280/day	0.0	1.8	1.8
73900 Other Expenditures & Services	Freight, 12000 lbs	0.0	1.5	1.5
n y	-	0.0	0.0	0.0
	SUBTOTAL	0.0	4.8	4.8

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74000 SUPPLIES	DESCRIPTION	4 Mos I	8 MOS	Page 4 12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies		0.0	0.0	0.0
14560 Data Processing Supplies	Egg-take equip.	0.0	0.5	0.9
74600 Other operating Supplies		0.0	0.0	0.0
74650 Repair & Maintenance Supplies		0.0	0.0	0.0
OTHER	Plumbing for incubators, other	0.0	2.5	2.5
OTHER	Lumber, hardware	0.0	3.6	3.(
DTHER	***************************************	0.0	0.0	0.0
	SUBTOTAL	0.0	6.6	6.0
75000 EQUIPMENT	DESCRIPTION	4 MOS	8 Mos	12 MO:
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment		0.0	0.0	0.0
75870 Laboratory & Scientific Equip		0.0	0.0	0.0
75940 Special Equipment	Incubators, raceways	0.0	25.5	25.9
75050 Furniture & Office Equipment	· · · · · · · · · · · · · · · · · · ·	0.0	0.0	0.0
DTHER	Pipeline mat'l, intake screens	0.0	7.2	7.2
other		0.0	0.0	0.0
OTHER	······································	0.0	0.0	0.0
,	SUBTOTAL	0.0	32.7	32.7
	· ~			4

				ALASKA	DEPART G 1 4	FISH & CAME			e 1 و
PROJECT:	Red	Lake	Restoration		PROJECT	LEADER:	Lorne White		
PROJECT NO:		R113			LC	CATION:	Kodiak	PHONE:	907/486-4791

REQUEST

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	0.0	9.2	9.2
72000	0.0	0.0	0.0
73000	0.0	0.0	0.0
74000	0.0	0.0	0.0
75000	0.0	0.0	0.0
TOTAL	0.0	9.2	9.2

BUDGET SUMMARY OF BIOMETRIC SUPPORT COSTS ONLY.

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	0.0	0.0	0.0
72000	0.0	0.9	0.9
73000	0.0	4.8	4.8
74000	0.0	6.6	6.6
75000	0.0	32.7	32.7
TOTAL	0.0	45.0	45.0

BUDGET SUMMARY WITH NO BIOMETRIC SUPPORT COSTS.

M.L. P

ALASKA DEPARTMENT OF FISH & CAME

OY4

Page 1

PROJECT:	Mitigation	for Red	Lake	Sockeye	PROJECT	LEADER:	Lorne White		
PROJECT NO:	R114				J.	CATION:	Kodlak	PHONE:	(907)486-4791

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	4.4	38.8	43.2
72000	0.0	1.1	1.1
73000	3.8	3.4	7.2
74000	14.4	11.1	25.5
75000	76.8	94.3	94.3
TOTAL	99.4	148.7	171.3

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REQUEST

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

BUDGET SUMMARY INCLUDING BIOMETRIC SUPPORT COSTS.

COMMENTS: The start-up year for this project is the most expensive due to capital needs. This year we are able to accomodate the project at Pillar Creek and Kitoi Bay because those programs are presently below their production goals. In 1992, however, these facilities will be fully occupied and new rearing pens and raceways are needed so as not to conflict with other programs. The capital construction needs are \$76,800 during the first period of the funding request as there is a long lead time to bid, order, manufacture, ship and construct this type of equipment. Please refer to the detailed budget which is also broken out on State line item requests.

71000 PERSONAL SERVICES - LIST POSITIONS

				والمواجع والمتلافة بمعادمه معددها ومعاد مسرد	وسندو فالمتحدث فالمستخذ فتنكره وكالجرا ويهدوا	
PCN/NP/ NEW	RANGE/	CLASSIFICATION	Mos	LOCATION	INCUMBENT	SUPERVISOR
11-5340	9A	Fish & Wildlife Tech. II	0.5	Kodlak	Weimer	Clavenger
11-5365	9A	Fish & Wildlife Tech. II	0.8	Kodiak	Rockwell	Clavenger
11-5347	9B	Fish & Wildlife Tech. II	0.0	Kodlak	Swain	Clavenger
11-5324	90	Fish & Wildlife Tech. II	0.5	Kodiak	Sands	Clavenger
11-5308	11F	Fish & Wildlife Tech. III	0.5	Kodiak	Kansteiner	Clavenger
11-5176	14B	Fish Culturist I	0.8	Kodiak	Schrof	Clavenger
11-5286		Fish & Wildlife Tech. II	0.5	Kodiak	Vacant	Clavenger
11-5337	9A	Fish & Wildlife Tech. II	0.5	Kodiak	Stratton	Clavenger
11-5297	11C	Fish & Wildlife Tech. III	0.5	Kodiak	Watchers	Clavenger
11-5330		Fish & Wildlife Tech. I	0.0	Kodiak	Vacant	Clavenger
11-5287	14A	Fishery Biologist I	1.0	Kodiak	Vacant	Clavenger
11-7082	8D	Clerk/Typist III	1.5	Anchorage	Jean	Sloan
11-N471	12A	College Intern IV	1.5	Anchorage	Simmons	Sloan
	 		0.0			· · · · · · · · · · · · · · · · · · ·
	* 		0.0		·	· /
	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>		0.0			
	 		0.0		 	,
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FULL TIME EQUIVALENTS - FTEs (Months/12): 0.71

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72000 TRAVEL	DESCRIPTION	4 Mos	8 Mos I	Page 3 12 Mos
72240 Field Travel	4 trips to Homer, 3 to Anchor.	0.0	0.8	0.8
72270 Administrative Travel	-	0.0	0.0	0.0
72300 Conventions/Meeting Travel	-	0.0	0.0	0.0
72360 Moving/Relocation Expenses	-	0.0	0.0	0.0
72500 Per Diem	· · · · · · · · · · · · · · · · · · ·	0.0	0.3	0.3
		0.0	0.0	<u>0</u> .v
	SUBTOTAL	0.0	1.1	1.1
73000 CONTRACTUAL	DESCRIPTION	4 MOS	8 Mos	12 MOS
73100 Professional Services		0.0	0.0	0.0
73300 Communication		0.0	0.0	0.0
73400 Transportation		0.0	0.0	0.0
73420 Trans-State Equip Fleet Fees		0.0	0.0	0.0
73500 Advertising, Printing, Binding		0.0	0.0	0.0
73600 Public Utilities Services	· · · · · · · · · · · · · · · · · · ·	0.0	0.0	0
73700 Minor Repair/Maintenance		0.0	0.0	0.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment	egg picker	0.0	0.6	0.6
73900 Other Expenditures & Services	Freight, air charter	3.8	2.8	6.6
<u>Ministra</u>		0.0	0.0	0.0
	SUBTOTAL	3.8	3.4	7.2

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74000 SUPPLIES	DESCRIPTION	4 MOS	8 MOS	12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies	Betadyne, formalin, marking	0.0	3.9	3.9
74560 Data Processing Supplies		0.0	0.0	0.0
74600 Other operating Supplies	Propane, fuel, camp supplies	0.0	2.8	2.8
74650 Repair & Maintenance Supplies		0.0	0.0	0.0
OTHER	Groceries, rain gear	0.0	4.4	4.4
OTHER	Fish food	14.4	0.0	14.4
OTHER		0.0	0.0	0.0
	SUBTOTAL	14.4	11.1	25.5
75000 EQUIPMENT	DESCRIPTION	4 Mos	8 MOS	12 MOS
75750 Vehicles & Transportation Equip	Inflatable boat, outboard motor	0.0	8.0	8.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment		0.0	0.0	0.0
75870 Laboratory & Scientific Equip		0.0	0.0	0
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment		0.0	0.0	0.0
OTHER	Net pemns, frames, covers	0.0	9.5	9.5
OTHER	Feeders, raceways, fry counter	76.8	0.0	76.8
OTHER		0.0	0.0	0.0
	ISUBTOTAL	76.8	17.5	94.3

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ALASKA DEPARTME FISH & CAME

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PROJECT LEADER: Lorne White

PROJECT NO:	R114	LOCATION:

Mitigation for Red Lake Sockeye Fish

REQUEST

PROJECT:

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	0.0	9.2	9.2
72000	0.0	0.0	0.0
73000	0.0	0.0	0.0
74000	0.0	0.0	0.0
75000	0.0	0.0	0.0
TOTAL	0.0	9.2	9.2

BUDGET SUMMARY OF BIOMETRIC SUPPORT COSTS ONLY.

Kodiak

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	4.4	29.6	34.0
72000	0.0	1.1	1.1
73000	3.8	3.4	7.2
74000	14.7	10.7	25.4
75000	76.8	17.5	94.3
TOTAL	99.7	62.3	162.0

BUDGET SUMMARY WITH NO BIOMETRIC SUPPORT COSTS.

PHONE: 907/486-4791

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PROJECT: Restoration of Coghill Lake Sockeye PROJECT LEADERS: Mark Willette/Kate Wedemeyer

PROJECT NO: R115 ADF&G/USFS BUDGETS LOCATION: Cordova/Girdwood PHONE: 424-3214/783-3242

LINE ITEM	ADF&G	USFS	TOTAL
Personnel	45,060	9,270	54,330
Travel	300	1,800	2,100
Contracts	31,415	49,100	80,515
Supplies	9,960	3,700	13,660
Equipment	300	33,150	33,450
TOTAL	87,035	97,020	184,055

This is the OY4 budget request for the above project.

Detailed budgets for each agency follows.

DESCRIPTION/JUSTIFICATION

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The goal of this project is to restore the natural productivity of Coghill Lake and the resident sockeye salmon population using established lake fertilization techniques. This will be a cooperative project between ADF&G and the U.S. Forest Service (USFS). USFS will be responsible for fertilizer application. ADFG component will evaluate the effects of the fertilization program by monitoring lake productivity and salmon fry growth and mortality.

Sockeye salmon rear in lakes for one to three years before emigrating to sea. The production of sockeye salmon populations is closely linked to the productivity of rearing lakes. The Coghill Lake sockeye salmon stock has historically supported an important commercial fishery in western Prince William Sound, but in recent years returns have declined considerably. Results from damage assessment studies on juvenile salmon suggest that the Exxon Valdez oil spill may have accelerated the stock decline, because the smolt migrated through oil-contaminated habitats.

This project should be initiated in 1992 because the Coghill Lake stock is presently at dangerously low levels. Action must be taken to restore the stock before any further decline occurs. Limnological studies indicate that fry food resources in the lake cannot support large numbers of fish. Ongoing studies conducted by ADFG and the USFS suggest that fertilization is needed to increase lake productivity and boost zooplankton abundance until natural nutrient input from salmon carcasses is restored. L ...

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PROJECT:	Restoration	of Coghill L	ake Sockeye	PROJECT LEADER:	Mark Willette			<u></u>
PROJECT NO:	R115	ADF&G BUDGET		LOCATION:	Cordova	PHONE:	(907)	424-321
C	REQUE	est	<u></u>	, yn 1 yw arwyd a fallof a fallof y yw a fann yw a arw <u>yw Ar</u> wydai a arwyd y dan arwyd a fallof a arwyd a fallof	n an			- <u> </u>
LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS	This is to be	the department'	s OY4 b	udget :	request
71000	16,911	28,149	45,060	please explain of this money	n, in detail, th	e actual t on the	l dist	ribution
72000	300	0	300	Page 5 is an	evample by line	t-om	of the	type of
73000	3,015	28,400	31,415	information n	eeded.	LCent	or the	cype or
74000	4,160	5,800	9,960		V THATHATNA BTAM	emto o	IIIII	000000
75000	300	0	300	J BUDGET SUMMAR	I INCLUDING BIOM	ETRIC 5	UPPORT	0315.
TOTAL	24,686	62,349	87,035	-! 1				

DESCRIPTION/JUSTIFICATION

The goal of this project is to restore the natural productivity of Coghill Lake and the resident sockeye salmon population using established lake fertilization techniques. This will be a cooperative project between ADF&G and the U.S. Forest Service (USFS). USFS will be responsible for fertilizer application. ADFG component will evaluate the effects of the fertilization program by monitoring lake productivity and salmon fry growth and mortality.

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This project should be initiated in 1992 because the Coghill Lake stock is presently at dangerously low levels. Action must be taken to restore the stock before any further decline occurs. Limnological studies indicate that fry food resources in the lake cannot support large numbers of fish. Ongoing studies conducted by ADFG and the USFS suggest that fertilization is needed to increase lake productivity and boost zooplankton abundance until natural nutrient input from salmon carcasses is restored.

Salary		
Fish Bio (GS-9) 21 days x \$165	=3465	
OT	- 400	
Fish Bio (GS-12) 20 days x \$214	-4280	
	= 500	
Technician (GS-7) 5 days x \$125	= 625	\$ 9, 270
Travel/Per Diem		• •
Commerical flights Anch-Cordova	900	
2 people to RPT meeting		
commercial flight lower 48 to Anc	h* 900	
train Portage-Whittier	1.500	3,300
Contracts		
Fertilizer application	32,000	
charter flights 2 🔮 \$1500	3,000	
2 people to Coghill		
charter boat		
4 people for 10 days	10,000	
housing		
hotel, Cordova	1,600	
Girdwood and Whittier	1,000	476000
Equipment		
Boat safety equipment	300	
life raft	1,200	
repair & misc supplies	500	
marine survival equipt	700	
photographic	300	
computer software	700	3,700
Supplies		
Fertilizer	32,000	
boat fuel	700	
field food	300	
photo, reproduction	150	33,150
• · · • • • · · · · · · ·		
Total		\$97,020
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PROJECT: Fry Rearing to Restore Pink and Chum PROJECT LEADER: Mark Willette

PROJECT NO: R116

LOCATION: Cordova

PHONE: (907) 424-3214

REQUEST

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	304,442	24,465	328,907
72000	0	1,800	1,800
73000	45,265	15,000	60,265
74000	65,410	500	65,910
75000	179,300	0	179,300
TOTAL	594,417	41,765	636,182

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

BUDGET SUMMARY INCLUDING BIOMETRIC SUPPORT COSTS.

COMMENTS:

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This project will involve rearing wild pink and chum salmon fry in net pens to increase survival and accelerate recovery. Ongoing studies at Prince William Sound (PWS) hatcheries indicate that fry-toadult survival can be doubled if fry are reared in net pens and released during optimal growth conditions in the ocean. Techniques for capturing outmigrating wild salmon fry have been developed by ADFG. The benefit-cost ratio will be maximized by applying this knowledge to capture fry at seven large salmon-producing streams in PWS. Project benefits will be realized after only one year when adults return to spawn.

The Exxon Valdez oil spill severely damaged wild pink and chum salmon populations in PWS. Various amounts of oil were deposited in intertidal habitats where up to 75% of the spawning occurs. Salmon eggs deposited in 1989 and subsequent years have been contaminated and direct egg mortality documented Higher incidence of somatic, cellular, and genetic abnormalities were also found among alevins and fry in oiled creeks.

Wild salmon fry were further damaged when they entered the nearshore marine environment and consumed oil-contaminated prey. This caused reduced growth and fry-to-adult survival, because predators targeted the smaller, slower growing fish. Migration patterns indicated that nearly all the salmon fry exiting PWS passed through heavily oiled habitats in the southwestern Sound. Diminished growth and survival during the early marine period may have reduced the salmon return to PWS in 1990 by 15 to 25 million fish. Recently detected genetic damages may further reduce the productivity and fitness of wild salmon populations in PWS for many years to come. It is important that this project be initiated in 1992 to offset these effects and accelerate recovery.

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71000 1 .AL SERVICES - LIST POSITIONS

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PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	4 Mos	8 Mos	12 Mos	LOCATION	INCUMBENT	SUPERVISOR
NEW	16A	Fishery Biologist II	4	2	6	Cordova	Vacant	M. Willette
NP	11A	Fishery Technician III	7*	0		Cordova	Vacant	M. Willette
NP		Fishery Technician III	7*	0	7	Cordova	Vacant	M. Willette
NP	11A	Fishery Technician III	7*			Cordova	Vacant	M. Willette
NP	11A	Fishery Technician III	7*	0	7	Cordova	Vacant	M. Willette
NP	11A	Fishery Technician III	7*	<u> </u>		Cordova	Vacant	M. Willet
NP	9A	Fishery Technician II		2	<u> </u>	Cordova	Vacant	M. Willette
NP	9A	Fishery Technician II	6*	0	6	Cordova	Vacant	M. Willette
NP	9A	Fishery Technician II	6*			Cordova	Vacant	M. Willette
NP	9A	Fishery Technician II	6*		6	Cordova	Vacant	M. Willette
NP		Fishery Technician II	6*		6	Cordova	Vacant	M. Willette
NP	9A	Fishery Technician II	6*		6	Cordova	Vacant	M. Willette
NP		Fishery Technician II	6*		6	Cordova	Vacant	M. Willette
NP	9A	Fishery Technician II	6*			Cordova	Vacant	M. Willet
NP		Fishery Technician II		<u> </u>		Cordova	Vacant	M. Willette
NP	9A	Fishery Technician II	6*	<u> </u>		Cordova	Vacant	M. Willette
NP	9A	Fishery Technician II	6*		6	Cordova	Vacant	M. Willette
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11-708.	8D	Clerk/Typist 111	Ŭ	- -	1.5	Anchorage	Y. Jean	hoan
11-N471	12A	College Intern IV	0	1.5	1.5	Anchorage	J. Simmons	M. Sloan
11-7030	19C	Biometrician 11	2	0	2	Anchorage	J. Hasbrouck	W. Hauser
FULL TIME EC	UIVALENTS	G - FTEs (Months/12):	4.8	0.6	5.5			·

* Includes overtime costs.

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72000 MDAVEL	DESCRIPTION	4 Mos i	8 MOS	_ge 3 12 Mos
72000 IRAVED				12 1105
72240 Field Travel	1 trip Anchorage to Cordova	0	200	200
72270 Administrative Travel		0	0	0
72300 Conventions/Meeting Travel	Attend project reviewers meetin	, 0	750	750
72360 Moving/Relocation Expenses	· · · · · ·	0	0	0
72500 Per Diem	Per diem	0	850	850
		0	0	0
	SUBTOTAL	0	1800	1800
73000 CONTRACTUAL	DESCRIPTION	4 MOS	8 MOS	12 MOS
73100 Professional Services		0	0	0
73300 Communication	Phone and postage	240	0	240
73400 Transportation	Air charter	13750	0	13750
73420 Trans-State Equip Fleet Fees		0	0	0
73500 Advertising, Printing, Binding	-	0	0	0
73600 Public Utilities Services			0	0
73700 Minor Repair/Maintenance	Misc. equipment repair	1100	0	1100
73800 Rental-Land/Buildings/Machinery		0	0	0
73860 Rental-Machinery/Equipment		0	0	0
73900 Other Expenditures & Services	Vessel Charter, Training	30175	15000	45175
	•	0	0	0
	SUBTOTAL	45265	15000	60265

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74000 SUPPLIES	DESCRIPTION	4 Mos	B Mos	12 MOS
74420 Office & Library Supplies	Misc. office supplies	600	200	800
74520 Professional/Scientific Supplies	Plankton nets/sample bottles/fo	2500	0	2500
74560 Data Processing Supplies	Misc. data processing supplies	660	300	960
74600 Other operating Supplies	•••••	0	0	0
74650 Repair & Maintenance Supplies	Coded-wire tagging supplies	9150	0	9150
OTHER	Fish food	22500		22500
OTHER	Camp groceries and misc. suppli	25000		25000
OTHER	Misc. building supplies	5000	0	5000
	SUBTOTAL	65410	500	65910
75000 EQUIPMENT	DESCRIPTION	4 Mos	8 Mos	12 MOS
75750 Vehicles & Transportation Equip	Inflatable rafts and motors (5	27500	0	27500
75790 Communication Equipment	·	<u> </u>	0	0
75830 Data Processing Equipment	Computer hardware	300	0	300
75870 Laboratory & Scientific Equip	Coded-wire tagging machine (5)	64000	0	64000
75940 Special Equipment			0	0
75050 Furniture & Office Equipment	Tents and camp stoves (10)	27500	0	27500
OTHER	Salmon fry net pens (5)	35000	0	35000
OTHER	Salmon fry weirs (5)	25000	0	25000
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	SUBTOTAL	179300		179300

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LOCATION:

REQUEST

R116

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	10,680	9,234	19,914
72000	0	300	300
73000	515	0	515
74000	760	0	760
75000	300	0	300
TOTAL	12,255	9,534	21,789

Cordova

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	293,762	15,231	308,993
72000	0	1,500	1,500
73000	44,750	15,000	59,750
74000	64,650	500	65,150
75000	179,000	0	179,000
TOTAL	582,162	32,231	614,393

BUDGET SUMMARY WITH NO BIOMETRIC SUPPORT COSTS.

BUDGET SUMMARY OF BIOMETRIC SUPPORT COSTS ONLY.

Fry Rearing to Restore Pink and Chum PROJECT LEADER: Mark Willette PROJECT:

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PROJECT NO:

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PHONE: (907) 424-3214

ALASKA DEPARTMENT OF FISH & GAME

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PROJECT: Ft. Richardson Pipeline-Operations PROJECT LEADER: Wall

PROJECT NO: R117

LOCATION: Ft. Richardson PHONE: 428-1347

REQUEST

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	0.0	10.0	10.0
72000	0.0	0.0	0.0
73000	0.0	60.0	60.0
74000	0.0	93.8	93.8
75000	0.0	12.0	12.0
TOTAL	0.0	175.8	175.8

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

COMMENTS:

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Year 1 is a start-up year. Most operational costs will accrue during the last 3 months of the budget year.

This project focuses on production of catchable rainbow trout, coho and king salmon fry and unfed pink salmon fry to mitigate the significantly reduced returns to the Kenai River system because of oil-induced overescapement. A pipeline will be constructed that will permit doubling the current level of production. This increased production will provide an alternative to lost sport-fishing opportunities in Cook Inlet that are expected to occur in 1993 and 1994 due to the oil spill.

71000 PERSONAL SERVICES - LIST POSITIONS

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PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	MOS	LOCATION	INCUMBENT	SUPERVISOR
5244	90	FWTII	6.0	FT. RICHARDSON	STARKEY	WALL
5220	9A	FWTII	6.0	FT. RICHARDSON	VACANT	WALL
5346	9A	FWTII	6.0	FT. RICHARDSON	VACANT	WALL
New	11A ·	FWTIII	10.0	FT. RICHARDSON	VACANT	WALL
7082	8D	CLERK-TYPIST III	1.5	ANCHORAGE	JEAN	SLOAN
N471	10A	COLLEGE INTERN III	1.5	ANCHORAGE	SIMMONS	SLOAN
			0.0			
			0.0			
			0.0			
			0.0			
			0.0		••••••••••••••••••••••••••••••••••••••	
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FULL TIME EQUIVALENTS - FTEs (Months/12): 2.6

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72000 TRAVEL	DESCRIPTION	4 Mos	8 Mos (.	Page 3 12 MOS
72240 Field Travel		0.0	0.0	0.0
72270 Administrative Travel	 	0.0	0.0	0.0
72300 Conventions/Meeting Travel		0.0	0.0	0.0
72360 Moving/Relocation Expenses		0.0	0.0	0.0
72500 Per Diem	8	0.0	0.0	0.0
		0.0	0.0	0
	SUBTOTAL	0.0	0.0	0.0
73000 CONTRACTUAL	DESCRIPTION	4 Mos	8 Mos	12 MOS
73100 Professional Services		0.0	0.0	0.0
73300 Communication		0.0	0.0	0.0
73400 Transportation		0.0	0.0	0.0
73420 Trans-State Equip Fleet Fees		0.0	0.0	0.0
73500 Advertising, Printing, Binding		0.0	0.0	0.0
73600 Public Utilities Services	WATER, ELECTRICITY NATURAL GAS	<u> </u>	60.0	6(
73700 Minor Repair/Maintenance		<u> </u>	0.0	0.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment		<u> </u>	0.0	0.0
73900 Other Expenditures & Services	İ	<u> </u>	<u> </u>	0.0
-	Í	<u> </u>	<u> </u>	0.0
	I	<u> </u>	<u> </u>	60.0

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74000 SUPPLIES	DESCRIPTION	4 Mos	8 Mos I	Page 4 12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies		0.0	0.0	0.0
74560 Data Processing Supplies		0.0	0.0	0.0
74600 Other operating Supplies		0.0	0.0	0.0
74650 Repair & Maintenance Supplies		0.0	0.0	0.0
OTHER	FISH FEED	0.0	93.8	93.8
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	SUBTOTAL	0.0	93.8	93.8
75000 EQUIPMENT	DESCRIPTION	4 MOS	8 Mos I	12 MOS
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment		0.0	0.0	0.0
75870 Laboratory & Scientific Equip	OXYGEN MONITOR EQUIP/ALARM SYS	0.0	12.0	12.0
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER	-	0.0	0.0	0.0
	SUBTOTAL	<u> </u>	12.0	12.0

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PROJECT: Ft. Richardson Pipeline-Total costs PROJECT LEADER: Wall

PROJECT NO: R117

LOCATION: Ft. Richardson PHONE: 428-1347

REQUEST

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	5.8	12.9	18.7
72000	0.0	0.0	0.0
73000	400.0	3060.0	3460.0
74000	0.0	93.8	93.8
75000	0.0	12.0	12.0
TOTAL	405.8	3178.7	3584.5

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This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

BUDGET SUMMARY INCLUDING BIOMETRIC SUPPORT COSTS.

COMMENTS:

This project focuses on production of catchable rainbow trout, coho, and chinook salmon fry and unfed pink salmon fry to mitigate the significantly reduced returns to the Kenai River system because of oil-induced overescapement. A pipeline will be constructed that will permit doubling the current level of production. This increased production will provide an alternative to lost sport fishing opportunities in Cook Inlet that are expected to occur in 1993 and 1994 due to the oil spill.

This budget, taken from the "Fort Richardson Hatchery Water Supply Analysis" prepared by F. Robert Bell and Associates in April 1991, reflects the need to immediately fund design (March-June) and begin construction during the next 8 months. This concept calls for the Municipality of Anchorage to design and build this project which will will speed the project and costs. The first year is a start-up year. Most operational costs will accrue during the last 3 months of the budget year.

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71000 PER. , SERVICES - LIST POSITIONS

PCN/NP/ NEW	RANGE/ STEP	CLASSIFICATION	Mos	LOCATION	INCUMBENT	SUPERVISOR
5244	90	FWTII	6.0	FT. RICHARDSON	STARKEY	WALL
5220	9A	FWTII	6.0	FT. RICHARDSON	VACANT	WALL
5346	9A	FWTII	6.0	FT. RICHARDSON	VACANT	WALL
New	11A	FWTIII	10.0	FT. RICHARDSON	VACANT	WALL
7082	8D	CLERK-TYPIST III	1.5	ANCHORAGE	JEAN	SLOAN
N471	10A	COLLEGE INTERN III	1.5	ANCHORAGE	SIMMONS	SLOAN
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FULL TIME EQUIVALENTS - FTEs (Months/12): 2.6

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72000 TRAVEL	DESCRIPTION	4 MOS	8 MOS	12 MOS
72240 Field Travel		0.0	0.0	0.0
72270 Administrative Travel		0.0	0.0	0.0
72300 Conventions/Meeting Travel		0.0	0.0	0.0
72360 Moving/Relocation Expenses		0.0	0.0	0.0
72500 Per Diem		0.0	0.0	0.0
· · · · · · · · · · · · · · · · · · ·		0.0	0.0	0.0
1	SUBTOTAL	0.0	0.0	0.0
73000 CONTRACTUAL	DESCRIPTION	4 Mos	8 Mos	12 MOS
73100 Professional Services	DESIGN & BUILD WATER PIPELINE	400.0	3000.0	3400.0
73300 Communication		0.0	0.0	0.0
73400 Transportation		0.0	0.0	0.0
73420 Trans-State Equip Fleet Fees		0.0	0.0	0.0
73500 Advertising, Printing, Binding		0.0	0.0	0.0
73600 Public Utilities Services	WATER, ELECTRICITY NATURAL GAS	0.0	60.0	60.0
73700 Minor Repair/Maintenance		0.0	0.0	0.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment		0.0	0.0	0.0
73900 Other Expenditures & Services		0.0	0.0	0.0
		0.0	0.0	0.0
	SUBTOTAL	400.0	3060.0	3460.0

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74000 SUPPLIES	DESCRIPTION	4 Mos	8 MOS	ع 4 12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies		0.0	0.0	0.0
74560 Data Processing Supplies		0.0	0.0	0.0
74600 Other operating Supplies	·	0.0	0.0	0.0
74650 Repair & Maintenance Supplies		0.0	0.0	0.0
DTHER	FISH FEED	0.0	93.8	93.8
other		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	SUBTOTAL	0.0	93.8	93.8
75000 EQUIPMENT	DESCRIPTION	4 Mos	8 MOS	12 Mos
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment	· · · · · · · · · · · · · · · · · · ·	0.0	0.0	0.0
75830 Data Processing Equipment		0.0	0.0	0.0
75870 Laboratory & Scientific Equip	OXYGEN MONITOR EQUIP/ALARM SYS	0.0	12.0	12.0
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0

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ALASKA DEPARTMENT OF FISH & CAME

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Page 1

PROJECT: Ft. Richardson Pipeline-Constr. PROJECT LEADER: Wall

PROJECT NO: R117

LOCATION: Ft. Richardson PHONE: 428-1347

REQUEST	
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LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	0.0	0.0	0.0
72000	0.0	0.0	0.0
73000	400.0	3000.0	3400.0
74000	0.0	0.0	0.0
75000	0.0	0.0	0.0
TOTAL	400.0	3000.0	3400.0

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type (information needed.

COMMENTS:

This budget is taken from the "Fort Richardson Hatchery Water Supply Analysis" prepared by F. Robert Bell and Associates, April 1991. The budget page is attached here and the entire report is appended. This budget reflects the need to immediately fund design (March-June) and to proceed with construction during the next 8 months. This concept calls for the Municipality of Anchorage to design and build this project. This will speed the project and reduce administrative costs.

This project focuses on production of catchable rainbow trout, coho and king salmon fry and unfed pink salmon fry to mitigate the significantly reduced returns to the Kenai River system because of oil-induced overescapement. A pipeline will be constructed that will permit doubling the current level of production. This increased production will provide an alternative to lost sport-fishing opportunities in Cook Inlet that are expected to occur in 1993 and 1994 due to the oil spill.

11-1-110

71000 PERSONAL SERVICES - LIST POSITIONS

PCN/NP/ NEW	RANGE/	CLASSIFICATION	MOS	LOCATION	INCUMBENT	SUPERVISOR
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FULL TIME EQUIVALENTS - FTES (Months/12): 0.0

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Page 2

				Page 3
72000 TRAVEL	DESCRIPTION	4 MOS	8 MOS	12 MOS
72240 Field Travel		0.0	0.0	0.0
72270 Administrative Travel		0.0	0.0	0.0
72300 Conventions/Meeting Travel		0.0	0.0	0.0
72360 Moving/Relocation Expenses	۱ <u> </u>	0.0	0.0	0.0
72500 Per Diem		0.0	0.0	0.0
		0.0	0.0	0.0
	SUBTOTAL	0.0	0.0	0.0
73000 CONTRACTUAL	DESCRIPTION	4 MOS	8 Mos	12 MOS
73100 Professional Services	DESIGN & BUILD WATER PIPELINE	400.0	3000.0	3400.0
73300 Communication		0.0	0.0	0.0
73400 Transportation		0.0	0.0	0.0
73420 Trans-State Equip Fleet Fees	 	0.0	0.0	0.0
73500 Advertising, Printing, Binding		0.0	0.0	0.0
73600 Public Utilities Services		0.0		0.
73700 Minor Repair/Maintenance		0.0	0.0	0.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment		0.0	0.0	0.0
73900 Other Expenditures & Services		0.0	0.0	0.0
		0.0	0.0	0.0
	SUBTOTAL	400.0	3000.0	3400.0

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74000 SUPPLIES	DESCRIPTION	4 Mos	8 Mos	12 MOS
74420 Office & Library Supplies		0.0	0.0	0.0
74520 Professional/Scientific Supplies		0.0	0.0	0.0
74560 Data Processing Supplies		0.0	0.0	0.0
74600 Other operating Supplies		0.0	0.0	0.0
74650 Repair & Maintenance Supplies		0.0	0.0	0.0
OTHER		0.0	0.0	0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
I	SUBTOTAL	0.0	0.0	0.0
75000 EQUIPMENT	DESCRIPTION	4 MOS	8 MOS	12 Mos
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment		0.0	0.0	0.0
75870 Laboratory & Scientific Equip		0.0	0.0	
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
I	SUBTOTAL	0.0	0.0	0.0

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PROJECT:	Ft.	Richardson Pipeline	PROJECT LEADER:	Gary Wall			<u> </u>
PROJECT NO:		R117	LOCATION:	Ft. Richardson	PHONE:	(907)	428-1347

REQUEST

LINE TTEM	A MONTHS	R MONTHS	12 MONTHS
	4 MONTING	U HONTHS	LL MONTING
71000	5.8	2.9	8.7
72000	0.0	0.0	0.0
73000	0.0	0.0	0.0
74000	0.0	0.0	0.0
75000	0.0	0.0	0.0
TOTAL	5.8	2.9	8.7

BUDGET SUMMARY OF BIOMETRIC SUPPORT COSTS ONLY.

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	0.0	10.0	10.0
72000	0.0	0.0	0.0
73000	400.0	3060.0	3460.0
74000	0.0	93.8	93.8
75000	0.0	12.0	12.0
TOTAL	400.0	3175.8	3575.8

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BUDGET SUMMARY WITH NO BIOMETRIC SUPPORT COSTS.

PROJECT: R15 - MARELED MURRELET RESTORATION PROJECT

AGENCY: DEPARTMENT OF INTERIOR, FISE AND WILDLIFE SERVICE

LINE ITEM COST Salaries \$173,500.00 Travel 15,000.00 Contractual 61,700.00 Supplies 12,000.00 Equipment 36,700.00 TOTAL 298,900.00 (6 FTES)

BACKGROUND/JUSTIFICATION: The marbled murrelet is a nearshore diving seabird which is highly vulnerable to oil spills and is one of the most abundant birds in the <u>Exxon Valdez</u> oil spill (EVOS) sone. The EVOS zone is one of the world population centers for murrelets, second only to southeast Alaska in abundance. The marbled murrelet population in Prince William Sound has declined from about 300,000 in 1972 to 100,000 in 1989-91. Counts in the Naked Island area in 1989 and '91 are also lower than counts made from 1978-1980. The length of time between pre-oil surveys and post-oil surveys makes it difficult to determine the contribution of the EVOS to this decline. In Prince William sound, marbled murrelets comprised 12% of all seabird carcasses retrieved in 1989, which is proportionally higher than their numbers at risk at the time of the spill. Based on an 8% chance of carcass recovery, an estimated 9,570 murrelets, or a high range of 14,190 murrelets, were killed directly by oil in the EVOS zone. In addition, apparently healthy murrelets collected in oiled areas had internal contamination by petroleum hydrocarbons, whereas murrelets collected in unoiled areas did not.

The murrelet population should be monitored and impediments to a natural recovery avoided where possible. Prince William Sound has one of the largest concentrations of marbled and Kittlitz's murrelets in the world, both of which breed throughout the spill zone. The most practical method of enhancing natural recovery and protecting murrelets from future disturbance is to protect their nesting habitat. Thus, identifying and evaluating nesting and high use areas is crucial if habitat protection is to succeed. The 1991 Marbled Murrelet Restoration Study documented tree nesting by marbled murrelets in PWS, but the study area included only a small fraction of the Sound and did not include all the habitats found within the spill zone. To be applicable throughout the spill zone, a larger-scale study should be implemented, integrating upland marbled murrelet surveys with USFS habitat mapping, including lands with potential for acquisition.

The restoration endpoint is to identify critical upland habitat in the spill zone in order to aid the natural recovery of murrelets through habitat protection and management. Pursuant to intensive nest searches to identify nesting habitat preferences, this information would eventually be integrated with knowledge of adjacent murrelet at-sea distribution.

This study is an expansion of the 1991 Marbled Murrelet Restoration Study, and will build on results of the detailed marbled murrelet nesting study conducted last year on Naked Island. The marbled murrelet restoration study will benefit from integration with the USFS habitat mapping system. This study will also benefit from complete analysis of data collected during the NRDA Bird Study 6 and Bird Study 2. PROJECT: R15 - MARBLED MURRELET RESTORATION PROJECT

AGENCY: DEPARTMENT OF INTERIOR, FISH AND WILDLIFE SERVICE

BUDGET (\$000)

Line 100: Salaries (includes overtime)

Supervisory Biologist: GM 13 (.1 FTE\$ 3.1 Principal Investigator: GS-11 (.7 FTE)36.0 Expediter: GS-5 (.2 FTE) 5.3 Clerk Typist: GS-3 (.1 FTE) 1.9 PWS Surveys Naked Island GS-7 (1 FTE) \$ 33.5 GS-7 (1FTE) \$ 33.5 GS-5 (.3FTE) GS-5 (.6FTE) 9.1 17.2 GS-5 (.3FTE) 9.1 **GS-5 (.4FTE)** 12.4 **GS-5** (.4FTE) 12.4 SubTotal \$ 51.7 Subtotal \$ 75.5 Total Salaries: \$173.5 Total FTES: 6 FTES Line 200: Travel/perdiem \$ 15.0

Line 300: Contracts Boat charter 35 days @ \$1000* \$35.0 Professional tree climber 5.0 Tree climbing trainer 2.5 Alaska Railroad transport 1.2 Barge transport (Naked I.) 5.0 Boat maintenance & repairs 5.0 Personnel safety training 6.0 Vehicle lease (Anchorage) 2.0 Total Contracts: \$ 61.7 Line 400: Supplies \$ 12.0 Line 500: Equipment \$ 36.7

Grand Total: \$298.9

• USFS to contribute \$20,000 for an additional 20 charter day.

Equipment list:

Laptop computers (2) & programs \$ Marantz recorder w/ shotgun mic GPS (navigation) cameras (2)	8.0 5.0 *** 2.0 1.0	video camera & nightscope handheld VHF radio (2) climbing equipment/rope backpacking gear misc. camp & science	10.0 .5 2.0 2.0 2.0
microcassette recorder Leitz binoculars (4)	1.0 3.2	Subtotal	\$36.7

Page 1

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PROJECT: Stream Habitat Assessment PROJECT LEADER: M. Kuwada

LOCATION: Anchorage

PHONE: 267-2277

PROJECT NO: R47

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	52.7	144.1	196.8
72000	0.8	7.1	7.8
73000	7.5	103.9	111.4
74000	31.0	0.5	31.0
75000	25.0	0.0	25.0
TOTAL	117.0	255.6	372.0

REQUEST

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type information needed.

COMMENTS:

1 ...

This project will facilitate the recovery of injured species by protecting important stream habitats and riparian zones in the oil spill area from the impacts of timber harvests and other development activities. Furthermore, project data will provide the basic information needed to identify and prioritize important habitat areas for land acquisition, enhancement and protection decisions. The project is designed to focus on private lands where ongoing or imminent development activities are likely to result in an incremental loss of habitat. The benefit of surveying stream environments and expanding known fish distribution is that anadromous fish streams are accorded protection from logging under provisions of the state Forest Practices Act. This means that a minimum level of protection is conferred just by identifying new fisheries habitat. Another benefit is that previously unidentified streams will be added to the ADF4G Catalog and Atlas of Anadromous Waters for protection under provisions of the state's Anadromous Fish Act.

71000 PERSONAL SERVICES - LIST POSITIONS

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PCN/NP/ NEW	RANGE/	CLASSIFICATION	MOS	LOCATION	INCUMBENT	SUPERVISOR
11-6019	18J	Habitat Biologist III	12.0	Anchorage	Kuwada	Trasky
11-6093	160	Habitat Biologist II	12.0	Anchorage	Sundet	Kuwada
11-7600	14C	Habitat Biologist I	5.0	Anchorage	Pink	Sundet
11-7608	118	Fish and Game Tech III	5.0	Anchorage	Weseman	Sundet
11-7613	118	Fish and Game Tech III	5.0	Anchorage	- HIII	Sundet
11-6053	- 8D	Clerk Typist III	6.0	Anchorage	Magnus	Anderson
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FULL TIME EQUIVALENTS - FTEs (Months/12): 3.8

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Page 2

72000 TRAVEL	DESCRIPTION	4 Hos	8 Mos	Page 3 12 Mos
72240 Field Travel	4-person crew; RT Homer and Afognak	0.0	1.0	1.0
72270 Administrative Travel	1 RT Juneau (1 person)	0.5	0.0	0.5
72300 Conventions/Meeting Travel	1 RT Out-of-State Conference	0.0	0.5	0.5
72360 Moving/Relocation Expenses		0.0	0.0	0.0
72500 Per Diem	Per Diem	0.2	5.6	5.8
Ann dan dan baran an an an an an an an an an an an an a		0.0	0.0	5
	SUBTOTAL	0.7	7.1	7.8
73000 CONTRACTUAL	DESCRIPTION	4 105	8 Mos	12 MOS
73100 Professional Services	Training (Safety and First Aid)	0.5	0.0	0.5
73300 Communication	Data Line, Phone, Fax	0.5	1.0	1.5
73400 Transportation	Recon Flights, Field Surveys	6.5	98.4	104.9
73420 Trans-State Equip Pleet Fees		0.0	0.0	0.0
73500 Advertising, Printing, Binding	Xerox; Photo-video Processing	0.0	2.0	2.0
73600 Public Utilities Services		0.0	0.0	.0
73700 Minor Repair/Maintenance	Equipment Repairs	0.0	2.0	2.0
73800 Rental-Land/Buildings/Machinery		0.0	0.0	0.0
73860 Rental-Machinery/Equipment		0.0	0.0	0.0
73900 Other Expenditures & Services	Post-processing Locational Data	0.0	0.5	0.5
		0.0	0.0	0.0
	SUBTOTAL	7.5	103.9	111.4

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74000 SUPPLIES	DESCRIPTION	4 MOS	8 MOS	12 MOS
74420 Office & Library Supplies	Film and Video; Misc.	0.5	0.5	1.0
74520 Professional/Scientific Supplies	Global Positioning System (GPS)	29.8	0.0	29.8
74560 Data Processing Supplies	Floppy disks; Backup Tapes	0.2	.0.0	0.2
74600 Other operating Supplies		0.0	0.0	0.0
74650 Repair & Maintenance Supplies		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	SUBTOTAL	30.5	0.5	31.0
75000 EQUIPMENT	DESCRIPTION	4 1105	8 MOS	12 MOS
75750 Vehicles & Transportation Equip		0.0	0.0	0.0
75790 Communication Equipment		0.0	0.0	0.0
75830 Data Processing Equipment	Computer; Software; Tape Drive	25.0	0.0	25.0
75870 Laboratory & Scientific Equip		0.0	0.0	0.0
75940 Special Equipment		0.0	0.0	0.0
75050 Furniture & Office Equipment	· · · · · · · · · · · · · · · · · · ·	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
OTHER	 	0.0	0.0	0.0
	SUBTOTAL	25.0	0.0	25.0

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	equin Duck	Restoration		PROJECT LEADER:	Sam Patten	
PROJECT NO:	R71	ADF&G COMBINED	BUDGET	LOCATION:	Anchorage	PHONE: 267-2376
	REQUI	EST	<u></u>	<u>999</u>		1991. Mayor mana a kaka mana ayaka maya a sa aya a sa aya da aya aya aya a sa aya aya a sa aya a sa aya a sa a

LINE ITEM	SEA DUCK	R 71	TOTAL
71000	132.0	92.0	224.0
72000	15.0	18.0	33.0
73000	37.8	27.5	65.3
74000	15.0	15.0	30.0
75000	27.2	28.1	55.3
TOTAL	227.0	180.6	407.6

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This is the OY4 budget request for the combined projects.

DETAILED BUDGETS FOR EACH PROJECT FOLLOWS.

DESCRIPTION/JUSTIFICATION:

1 ..

Harlequin Ducks suffered direct mortality from contact with oil during the oil spill. Subsequently, there has been an almost complete failure of Harlequins in the spill area to reproduce. The mechanism of the apparent reproductive failure is not clear, but there is strong evidence of continuing injury to this species, possibly through consumption of oil-contaminated mussels, their primary food. This project will continue to try to determine the cause of the reproductive failure in Harlequin Ducks, to study their reproductive ecology, and to develop means of restoring the species in the oil-damaged area.

PROJECT NO: R71 ADF4G BUDGET LOCATION: Anchorage PHONE: 267-23	DF4G BUDGET LOCATION: Anchorage PHONE: 267	267-2376	

REQUEST

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	31.3	60.7	92.0
72000	5.5	12.5	18.0
73000	8.5	19.0	27.5
74000	5.0	10.0	15.0
75000	23.1	5.0	28.1
TOTAL	73.4	107.2	180.6

This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

BUDGET SUMMARY INCLUDING BIOMETRIC SUPPORT COSTS.

DESCRIPTION/JUSTIFICATION:

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The most important oil spill effect documented to date by NRDA Bird Study NO. 11 has been the cessation of Harlequin Duck reproduction in the oil spill area of Prince William Sound. Harlequin Ducks were observed not to form breeding pairs, display courtship behavior, nor seek nest sites, but remained in flocks of unusually high female to male ratios away from potential breeding streams in 1991. No Harlequin broods were observed in the oil spill area in 1990; only one brood was reported in the oil spill area in 1991. This reproductive failure includes areas where Harlequin reproduction was historically documented prior to the EVOS. Harlequin reproduced normally in northern, eastern, and southern PWS in 1990-91. Harlequin Ducks may serve as an indicator of the health of the recovering ecosystem, and monitoring should be continued until recovery and restoration are successful.

71000 JNAL SERVICES - LIST POSITIONS

PCN/NP/ NEW	RANGE/	CLASSIFICATION	4 Mos	8 Mos	12 Mos	LOCATION	INCUMBENT	SUPERVISOR
11-2066	18F	Wildlife Biologist III	0.0	6.0	6.0	Anchorage	Sam Patten	Don Calkins
11-7601	118	Wildlife Tech. III	0.0	6.0	6.0	Anchorage	Tom Crowe	Sam Patten
11-N226	11A	Wildlife Tech. III	0.0	6.0	6.0	Anchorage	Rick Gustin	Sam Patten
11-7069	13F	Wildlife Tech. IV	0.0	6.0	6.0	Anchorage	Hastings	Sam Patten
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FULL TIME EQUIVALENTS - FTES (Months/12): 0

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7200(EL		4 Mos	8 MOS	198 3 12 Mos
72240 Field Travel	Anc, Vdz, Kod, Sew (4 people)	7.5	3	10.5
72270 Administrative Travel	Peer rev. travel, OR, Anc, CDV	2.0	1.0	3.0
72300 Conventions/Meeting Travel	Oil spill/review meetings	1.0	0.5	1.5
2360 Moving/Relocation Expenses	Duty station transfer	0.0	0.0	0.0
72500 Per Diem	Per diem CDV, VDZ KOD,SEW	2.0	1.0	3.0
		0.0	0.0	0.0
	SUBTOTAL	12.5	5.5	18.0
3000 CONTRACTUAL	DESCRIPTION	4 Mos	8 Mos	12 MOS
73100 Professional Services	Aircraft and boat charter	6.0	2.0	. 8.0
73300 Communication	VHF telephone radio patch	0.5	0.3	0.8
73400 Transportation	Shipping and air freight	2.0	1.0	3.0
73420 Trans-State Equip Fleet Fees	Gas and mileage for veh.	0.5	0.3	0.8
3500 Advertising, Printing, Binding	Printing data forms on rain pap	0.5	0.3	0.8
73600 Public Utilities Services	Telephone, etc.	0.5	0.3	0.8
73700 Minor Repair/Maintenance	3 outbd. motors, 2 boats, 2 rafts	2.0	1.0	3.0
73800 Rental-Land/Buildings/Machinery	Storage/garage in ANC	1.0	0.5	1
3860 Rental-Machinery/Equipment	GPS Loran nav. system rental	1.0	0.5	1.5
73900 Other Expenditures & Services	Avian blood chem. analysis	5.0	2.5	7.5
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	SUBTOTAL	19.0	8.5	27.5

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74000 JIES	tPTION	4 Mos i	8 Mos (84 12 MOS
74420 Office F. Tilberen Complian				
74420 Office & Library Supplies	comp. paper, field books.etc.	0.5	0.5	1.0
74520 Professional/Scientific Supplies	Cap. netting, vet. supplies	2.5	1.0	3.5
74560 Data Processing Supplies	Software, floppy disks	1.5	0.5	2.0
74600 Other operating Supplies	Gas and oll for outboard/gen	3.0	2.0	5.0
74650 Repair & Maintenance Supplies	Tools,gear lube,spark plugs,etc	1.5	0.3	1.8
OTHER	Groceries for field station	1.0	0.8	1.8
OTHER	······	0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	SUBTOTAL	10.0	5.0	15.0
75000 EQUIPMENT	DESCRIPTION	4 MOS	8 MOS	12 MOS
75750 Vehicles & Transportation Equip	16' Boston Whaler and raft	0.0	16.0	16.0
75790 Communication Equipment	1 VHF hand-held marine radio	1.2	0.0	1.2
75830 Data Processing Equipment	SAS software, lap-top computer	0.8	3.5	4.3
75870 Laboratory & Scientific Equip	Scales, calipers, flow meter	1.0	1.0	2.0
75940 Special Equipment	Radio tel. parts (antennae)	0.5	0.5	1.0
75050 Furniture & Office Equipment		0.0	0.0	0,
OTHER	Binoculars	1.0	0.5	1.5
OTHER	1 small inflatable raft	0.5	0.0	0.5
OTHER	4 survival suits	0.0	1.6	1.6
	SUBTOTAL	5.0	23.1	28.1

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PROJECT:	Sea	Duck	Restoration	PROJECT	LEADER:	Sam	Patten

PROJECT NO: ADF&G BUDGET LOCATION: Anchorage PHONE: 267-2376

REQUEST

LINE ITEM	4 MONTHS	8 MONTHS	12 MONTHS
71000	91.7	40.3	132.0
72000	10.0	5.0	15.0
73000	26.9	10.9	37.8
74000	10.0	5.0	15.0
75000	27.2	0.0	27.2
TOTAL	165.8	61.2	227.0

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This is to be the department's OY4 budget request for the above project. On the following pages please explain, in detail, the actual distribution of this money and summarize it on the first page.

Page 5 is an example, by line item, of the type of information needed.

BUDGET SUMMARY INCLUDING BIOMETRIC SUPPORT COSTS.

DESCRIPTION/JUSTIFICATION:

The project goal is to investigate Harlequin Duck breeding habitat requirements necessary for their restoration in Prince William Sound following the EVOS. During the project's initial field season in 1991, female Harlequin ducks were captured, radio-tracked and located on nests, the first successful application of this technique. This budget addresses the second field season for this project which is necessary for expansion of the sample sizes of nests located. According to state policy, a minimum of 6 persons are required for safe operations of 3 boats in survey work and extensive travel between Cordova and Valdez. Travel and transportation costs are important components in the budget because of the remote field locations. Contractual services include air charter for radio-tracking, boat charters for camp installation and fuel supply, and blood chemistry analysis. Two-thirds of the Supply funding request is directed towards food and gasoline. New equipment needs include marine VHF radios, telemetry equipment, computer software and quality optics.

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71000 F JAL SERVICES - LIST POSITIONS

Batterman	· · · · · · · · · · · · · · · · · · ·		·					
PCN/NP/ NEW	RANGE/	CLASSIFICATION	4 Mos	8 Mos	12 Mos	LOCATION	INCUMBENT	SUPERVISOR
11-2066	18F	Wildlife Biologist III	0.0	4.0	4.0	Anchorage	Sam Patten	Don Calkins
11-7070	13A	Wildlife Technician IV	0.0	8.0	8.0	Cordova	Dave Crowley	Sam Patten
11-7069	13F	Wildlife Technician IV	0.0	4.0	4.0	Anchorage	C. Hastings	Sam Patten
11-7074	118	Wildlife Tech III	0.0	4.0	4.0	Anchorage	John Syder	Dave Crowley
NEW	102	Wildlife Tech II	0.0	4.0	4.0	Anchorage	Vacant	Sam Patten
NEW	10A	Wildlife Tech II	0.0	4.0	4.0	Anchorage	Vacant	Dave Crowle
NEW	10A	Wildlife Tech II	0.0	4.0	4.0	Anchorage	Vacant	Dave Crowley
NEW	10A	Wildlife Tech II	0.0	4.0	4.0	Anchorage	Vacant	Dave Crowley
NEW	107	Wildlife Tech II	1.5	1.5	3.0	Anchorage	Vacant	Dave Crowley
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FULL TIME EQUIVALENTS - FTES (Months/12): 0.1 3.1 3.3

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72000 T .L	DI LIPTION	4 Mos I	8 Mos	ja 3 Mos
72240 Field Travel	6 persons Anc, Cdv, Val, Olsen Bay	6.0	3.0	9.0
72270 Administrative Travel	Peer reviewer: Portland, Anc, Cdv	2.0	1.0	3.0
72300 Conventions/Meeting Travel	Oil spill/review meetings	1.0	0.5	1.5
2360 Moving/Relocation Expenses		0.0	0.0	0.0
2500 Per Diem	Per diem in Val and Anc	1.0	0.5) 1.5
		0.0	0.0	0.0
	SUBTOTAL	10.0	5.0	15.0
3000 CONTRACTUAL	DESCRIPTION	4 MOS	8 Mos	12 MOS
3100 Professional Services	Radio tracking, boat fuel, camp	13	6.5	19.5
3300 Communication	VHF radio patch	0.6	0.3	0.9
3400 Transportation	Shipping, air freight, ferry	2.5	1.25	3.75
13420 Trans-State Equip Fleet Fees	Gas and mileage for vehicle	0.5	0.25	0.75
3500 Advertising, Printing, Binding	Printing data forms on rain pap	0.2	0.1	0.3
3600 Public Utilities Services	Telephone	0.5	0.25	0.75
13700 Minor Repair/Maintenance	5 outboards, 2 boats, 2 rafts	3.0	1.5	4.5
3800 Rental-Land/Buildings/Machinery	Gear storage in Cdv	0.5	0.3	0.8
3860 Rental-Machinery/Equipment	GPS LORAN navigation system	1.2	0.5	1.7
3900 Other Expenditures & Services	Avian blood chemistry analysis	4.9	0.0	4.9
	-	0.0	0.0	0.0
	SUBTOTAL	26.9	10.9	37.8

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74000 LIES	I RIPTION	4 Mos	8 Mos	30 ¹ 4
74420 Office & Library Supplies	Comp. paper, field books, etc.	0.5	0.5	1.0
74520 Professional/Scientific Supplies	Capt. netting, vet. supplies	2.0	1.0	3.0
74560 Data Processing Supplies	Software, floppy disk	1.0	0.0	1.0
74600 Other operating Supplies	Gas for boats/generators	3.0	2.0	5.0
74650 Repair & Maintenance Supplies	Olls, tools, spark plugs, bat.	0.5	0.5	1.0
OTHER	Groceries for field station	3.0	1.0	4.0
OTHER		0.0	0.0	0.0
OTHER		0.0	0.0	0.0
	SUBTOTAL	10.0	5.0	15.0
75000 EQUIPMENT	DESCRIPTION	4 MOS	8 MOS	12 MOS
75750 Vehicles & Transportation Equip	1 outboard for raft/backup	1.2	0.0	1.2
75790 Communication Equipment	2 hand-held VHF radios	2.4	0.0	2.4
75830 Data Processing Equipment	SAS statistical software	0.6	0.0	0.6
75870 Laboratory & Scientific Equip	Scales, calipers, flow meter	1.0	0.0	1.0
75940 Special Equipment	Rad. tele. receivers, radios, etc	7.0	0.0	7.0
75050 Furniture & Office Equipment		0.0	0.0	0.0
OTHER A MILLION	Binoculars for waterfowl obs.	3.0	0.0	3.0
OTHER	16 foot Boston Whaler	12.0	0.0	12.0
OTHER OTHER		1	0.0	••• • 0 •• 0
	SUBTOTAL	27.2	0.0	27.2

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