Exxon Valdez Oil Spill Trustee Council

Public Advisory Group 645 G Street, Suite 401, Anchorage, Alaska 99501-3451 Phone 907-278-8012 Fax 907-276-7178



AGENDA

Exxon Valdez Oil Spill Trustee Council Public Advisory Group First floor conference room 645 G Street, Anchorage, Alaska



Tuesday and Wednesday, August 2-3, 1994 TRUSTEE COUNCIL 9:30 a.m. ADMINISTRATIVE RECORD

DRAFT 8/1/94 4:10 p.m.

PURPOSE:

- 1. Obtain status reports on restoration activities.
- 2. Make recommendations on proposed activities and projects for the 1995 Work Plan.

<u>Tuesday</u>

9:30 a.m.	Call to order/roll call/ approval of agenda	Donna Fischer, Vice-Chair
9:35	Approval of summary of June 28, 1994 meeting	Donna Fischer, Vice-Chair
9:40	Recommendations for FY 1995 PAG Budget	Vern McCorkle Mary McBurney
10:00	Executive Director's Report	Jim Ayers Executive Director
	PAG Budget and Staffing	

-- Introduction to Draft FY95 Work Plan

	Habitat	Protection	and	Acquisition
--	---------	------------	-----	-------------

	"Less-than-fee" and "public access" policies	Chuck Totemoff, Pam Brodie, Jim Cloud, John Sturgeon, and Walt Sheridan
	Briefing on Restoration Reserve/Endowment	Craig Tillery
	Restoration Plan	
	Draft EIS Implementation and Fina	al Plan
11:30	Public comments	
12:00 p.m.	Lunch	
1:00	Report on 1994 Work Session	Donna Fischer, John French, Gail Evanoff
1:15	Comments on proposed projects for the draft 1995 Work Plan	Donna Fischer, Vice-Chair
5:00	Recess	
<u>Wednesday</u>		
8:30 a.m.	Ecosystem Management Initiative	Byron Morris, NOAA
9:30	Continue recommendations on th 1995 Work Plan	e Brad Phillips, Chair
11:30	Schedule next meeting	
11:35	PAG member comments	
12:00 p.m.	Adjourn	

·

Meeting Summary

A. GROUP:

Exxon Valdez Oil Spill Publi

B. DATE/TIME: June 28, 1994

C. LOCATION: Anchorage, Alaska

D. MEMBERS IN ATTENDANCE:

<u>Name</u>

(King alternate for Andrews)
Pamela Brodie
Kim Benton (for Sturgeon)
Jim Cloud
Cliff Davidson (ex officio)
Donna Fischer
Brenda Norcross (for French)
Lew Williams
James King
Vern McCorkle
Mary McBurney (for McCune)
Dan Hall (for McMullen)
Brad Phillips, Chair
Gail Evanoff (for Totemoff)
(McCorkle alt. for Eliason)

E. NOT REPRESENTED:

<u>Name</u>

Jim Diehl Richard Knecht Don McCumby (alternate) Drue Pearce (*ex officio*)

F. OTHER PARTICIPANTS:

<u>Name</u>

Jim Ayers

Leslie Holland-Bartels Luke Borer Mark Broderson L.J. Evans Ken Holbrook Rod Kuhn Phil Kunsberg Brion Lettich Jamie Linxwiler



EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL ADMINISTRATIVE RECORD Principal Interest

Sport Hunting and Fishing Environmental Forest Products Public-at-Large Alaska State House Local Government Science/Academic Public-at-Large Conservation Public-at-Large Commercial Fishing Aquaculture Commercial Tourism Native Landowners Public-at-Large

Principal Interest

Recreation Users Subsistence Public-at-Large Alaska State Senate

<u>Organization</u>

Executive Director, EVOS Restoration Office National Biological Survey Sherstone Timber Company AK Dept. Envir. Conservation Restoration Office Staff U.S. Forest Service U.S. Forest Service Los Alamos National Laboratory Eyak Corporation Eyak Bob Loeffler George Matz Molly McCammon

Jerome Montague Doug Mutter

Eric Myers Donna Platt Sandy Rabinowitch Leif Selkregg Daryl Schaefermeyer Walt Sheridan Rick Steiner Kim Sundberg Nancy Swanton Alex Swiderski Thea Thomas Chuck Totemoff Craig Tillery

AK Dept. Envir. Conservation Alternate for King Director of Operations, EVOS Restoration Office AK Dept. Fish and Game Designated Federal Officer Dept. of the Interior . Restoration Office Staff Eyak Corporation National Park Service IMS SAAMS U.S. Forest Service Self AK Dept. of Fish and Game Minerals Management Service AK Dept. of Law Cordova Dist. Fishermen United Chenega AK Dept. of Law

G. SUMMARY:

The meeting was opened June 28 at 9:30 a.m. by Chairperson Brad <u>Phillips</u>. The January 11-12, 1994 meeting summary was accepted (with the addition that Jim <u>Cloud</u> was present).

١.

<u>Phillips</u> initiated a discussion about how meaningful the input and participation of the PAG has been as an advisory mechanism to the Trustee Council. Items that engendered frustration included: not getting the opportunity for input before decisions are made, advice is not listened to or responded to, difficulty in reaching a consensus, unclear what is expected of the PAG, a lot of material to digest in short time periods, a PAG staff person is needed to help digest information, better communication and more frequent meetings are needed. Jim <u>Ayers</u> stated that he hoped the PAG would be a deliberative body looking at the broad picture and that the PAG has been and will continue to be invited to participate in other restoration planning activities.

Jim <u>King</u> noted that the PAG suggestions about an endowment were not discussed in the Draft Environmental Impact Statement (EIS). Vern <u>McCorkle</u> noted that the July 1993 "Williams" protocol listing PAG recommendations for the restoration plan did not appear to be considered or responded to (attachment #2). <u>Ayers</u> said that the endowment issue was held up by Department of Justice lawyers and that the PAG goals of July 1993 would be considered. He also asked for PAG participation in planning and budgeting processes and expressed his desire to work with the PAG to develop specific objectives and staff needs for the PAG.

<u>Avers</u> also said he would put together a financial overview of alternative #5 at the PAG's request that would reflect Table 2-2 in the draft EIS.

Mary <u>McBurney</u> suggested the PAG have a policy that decision documents be by consensus only. Others stated that while reaching consensus was useful if it could be done, the range of opinion was valued by the Trustee Council as well.

The meeting was opened for public comment. Testimony was presented by: Thea <u>Thomas</u> in support of the Sound Ecosystem Assessment project and she presented a petition signed by 200 fishermen in support of the permit buy-back project; Donna <u>Platt</u> and Luke <u>Borer</u> regarding concerns about the draft policy on purchase of less than fee simple title for habitat protection--which was then discussed (attachment #3); and Rick <u>Steiner</u> in support of Eyak and Sherstone and for flexibility in negotiating habitat protection acquisitions.

Jim <u>Ayers</u> gave the Executive Director's report. The proposed organization (attachment #4) was reviewed, and includes a Coordinating Committee with 2 PAG members participating. PAG members were asked to participate in deliberations on the less than fee simple title policy, the 1995 budget for the PAG, and the 1995 Work Plan (see H. Follow-up).

Molly <u>McCammon</u> presented the FY 1995 and 1996 Work Plan Timelines (attachments #5 and 6). The draft Restoration Plan and EIS are in public review, comments are due August 1 (attachment #7). The final EIS is expected on September 28, 1994. The next Trustee Council meeting is July 11. After the meeting from 5:00 to 8:30 will be a picnic at Valley of the Moon Park in Anchorage, PAG members are invited.

Kim <u>Sundberg</u> gave a presentation on the status of the proposed Institute of Marine Science Improvements at Seward. The draft EIS is in process with the final EIS due on September 23, 1994. The Seward facility is expected to open in June 1997. The project includes a research element, a public element and a research vessel element. <u>Avers</u> said the financial numbers would be examined to determine which elements were eligible under the settlement agreement. Brenda <u>Norcross</u> raised a question about the role of the University in the operation of the Institute. <u>Sundberg</u> said the University supported the Institute but that it was not a University facility.

Doug <u>Mutter</u> briefed the members on the process for nomination and approval of PAG members for the 1994-1996 term, which begins in October 1994 (a process description

was sent to members with the meeting agenda). Current members wishing to continue PAG service must send a written notice of application to the EVOS Restoration Office by August 1, 1994.

The meeting adjourned at 3:50 p.m. on June 28, 1994.

H. FOLLOW-UP:

- 1. <u>Phillips</u> will present a summary of PAG actions at the July 11, 1994 Trustee Council meeting.
- 2. <u>Mutter</u> will send PAG members copies of their original nomination package for review and update if they wish to re-apply for the next term (attachment #1).
- 3. PAG members to participate with Walt <u>Sheridan</u> and Alex <u>Swiderski</u> in discussions on the less than fee simple title policy: Chuck <u>Totemoff</u>, John <u>Sturgeon</u>, Pam <u>Brodie</u>, and Jim <u>Cloud</u>.
- 4. PAG members to participate with <u>Ayers</u> to prepare the FY1995 PAG Budget: Vern <u>McCorkle</u> and Mary <u>McBurney</u>.
- 5. PAG members to participate on July 12-13 with the Work Force to develop the 1995 Work Plan: Donna <u>Fischer</u>, John <u>French</u>, and Gail <u>Evanoff</u>.
- 6. The August meeting agenda will include a status report from <u>Ayers</u> on the endowment issue.

I. NEXT MEETING: August 2-3, 1994 in Anchorage.

The following meeting is tentatively set for October 11-12, 1994.

J. ATTACHMENTS:

1. PAG member's original nomination submission (for the member only)

Handouts attached for those not present:

- 2. July 1993 PAG Approach to Restoration
- 3. Discussion Draft on Acquisition of Less Than Fee Simple Title
- 4. Handouts on the Restoration Plan and Organization
- 5. FY 1995 Work Plan Timeline
- 6. FY 1996 Work Plan Timeline
- 7. Restoration Plan EIS Public Meeting Schedule
- 8. Chart of Budgets for Restoration Alternatives
- 9. Habitat Protection Status Report

K. CERTIFICATION:

. .5

PAG Chairperson

 \mathbf{x} \mathbf{x}

Date



Мето...



EXXON_VALDEZ OIL SPILL TRUSTEE COUNCIL

Date: July 25, 1994

To: Molly McCammon From: James Mykland Re: Area E Salmon Permit Buyback Project.



EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL ADMINISTRATIVE RECORD

Dear Molly,

Here are the signatures I have gathered in support of a permit buyback program. Please see that they are included in the trustees packet and distributed to all interested parties. Thank you for your cooperation.

Sincerely, lames L. Mykland

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

PRINT NAME SIGNATURE ADDRESS Box 1430 Landova ALC aller Box 1512 Cordon AK BOX 406 CDV AK Box 1149 SOL M FAJARDO Vox 903 CDV, AK. Kinds Chutz Hoon Hoover Box 10:39 Cordova lah 3800 MCMAHAA, ANL. AK 95 GA 1310 6003 an Box 1875 Cordova 99.574 mle

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

SIGNATURE PRINT NAME ADDRESS MIN RANCES A. MAlloRY Box 396 Contours 9951 M. SKuls Box

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

1. S. S.

PRINT NAME SIGNATURE ADDRESS el a Platt BOX 1693 TERROLD A.PLATT Lo Mall P.OBox 1714 DAN A. DEM auer 51 73 P.O. Box marta O. Box whord Non Klein 1110TTarmelita Pettit Cordova.1 DWIN W. HERNDON Elin W. P.O. Box 9. 33 Cordour О

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS Cordova 68 THE 4 WINSEN CORDOVA 86 220 BOX BOX 1824 CORDONA LLINA ham tara AL σ

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

PRINT NAME SIGNATURE ADDRESS Box 1611 CorDUA Pot mo PATRICIA M'GUIRE Richard Do 2161 Corpourt. William A. Merritt William U. Merriet P.O. Buy 1108 Conde P.O. Box 721 Contova litara P. O. Box 1881 Cordon EPENTY SFLEDKON electro leresti P.D Box 646 Cordova Kandy Menni Bur hos Son 1156 Cordona Lison 220 Bix 2.338 Cn. Do THE Deland Charles L. Bunc will Surch - <u>245</u>1 Cm terrout 130x 992 Cordone

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS Ames CORDOUL. EIKE 5. ordova OWICK **KHILLIPS** COR DOVA ۲D. 1565 JEFFREY Eordona 165

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

PRINT NAME SIGNATURE ADDRESS x 1085 1218 XX 3 Corth PO, BOX336 CORI Ltb EAWRENC ann RD FERNAR Wa. 9824 2814 Doug Kobert N. Ea 10 Box 254 Arlson Cordoun Box 2205 Corat 49 Nei

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

PRINT NAME SIGNATURE ADDRESS (ordova Robe Rt 251 Box CDI 1034 BAN $\mathcal{D}, 0$ 1012 130X A. RENNE 1 Cordan DREADIN Bx 2319 rick G. Kockwell Box 14

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS 0. Box 2095 vē NOI E ORDOVA BOC 1048 ordow-All 9974 lale 1 K 4 4 S Box 2235 PO BOX 1871 CORDOUA AK 99574 eur Walters

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS ENOK P. LIAN P.O. BOX 1004 CORDOVA tam SRANC. ordous m P.O. Boy 147, Con 0× 1113 ordovatk 1201743

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

PRINT NAME SIGNATURE ADDRESS COU. AK anchal force Cordora Ronald ~ Hinde P.O. Bax 166 AIC 7 Convous HEANDEM

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

SIGNATURE PRINT NAME ADDRESS Canporn Mi Box 310 Cordova 4957 PO BOX 1125 bour, AK ordova A OD Box YKES nalliscog arn

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

PRINT NAME SIGNATURE ADDRESS POBOR 1401 CORDOVA, AK EZAV 2156 LOLOOVA, At MARTIN BUDNIC D.D. Box . Wehler G. Pox 1205 CDV. AK. Box 2193 Contra AK 50 Ulature M. Maand or 1574 Corder axine Cordava AK 99574 NDOVA CF C. INIANHE BOX 371 KAS, 6Fase 1 IMEC smode Rov Ino TR KONPT AK 611 Cordova Ale



Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

SIGNATURE PRINT NAME ADDRESS Pobox 23/Z MMY Corder CORDOV, PO BOX 2634 hSER CORDOVA BECKER Box 1185 CORDOVA 413 cordo,

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

SIGNATURE PRINT NAME ADDRESS RIX STY CORDOUN AK 99574 Box 875 (cnoovA Ax. 99574) (marsh A Box 62/ 60 The hamon A mulla BOX 1521 Cordova Shannon W illis BOX 393 CORPOUR DENNIS STATT- SAMURLIGON BOX 936- CORDONA

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS 605 Alder ortin ox 1975 STEVEN nous KOBERTS 58 Cordova Michael COKDOUP 2025 MAR BOX 245 onlara A

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

*:_

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

PRINT NAME SIGNATURE ADDRESS 1/12 Cortova 1312 (DV AK · ROR 1586 1 BOX25/ ONDUH 05-5-1 776 Cardone Ht. Miller P.C. Box 465, Kodist, Ak P.J. Box 385, CORDOUA, AK tein STAN OLSEN STEVEN GILDNES BOX 380 CORDOVA, AK Storen Sildnog Surper PO 2033 COKPOVA AK Ken swoles P.O. Bot 1552 Cordon HK 99574

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

٢

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS 811 CORDORA M: MASTER Both Smaster P.O.ROV BOB 1912 CORPOUR K RIDUN Bax 903 Mark Penel not I the hal Corteva BONNI Cordone in

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

SIGNATURE PRINT NAME ADDRESS 15435 GROFLE RA NE ANTONIN BERAN ak.99574 nlorn ERS POBOX 2045 HOMER At $\int o$ BOX ρ.ο. 1393 TAN COR DONA VAC ner A lichan DIGWA 99574 1044 SPELCER GORDON BOX 2403 Condous HK 99574,

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT	NAME	8	IGNATURE		ADDRES	5 517	
ALBO	ERT	ZELENAK	addreat	Zelenal	2 ANCHOR.	PT AK99	3556
FRAM	tes	Scoll	Flanes	Secto	-Cordover,	55 AL 97	574
Rode	ney,	Sproul	Johney	Sphoul	NM2323	2 Cerávera	lik 9987,
	/	, 	·)	· · ·	1999 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1		
							· •
		- <u> </u>					
			L		448-1720-171-1220-2-1710-1710-2-1-3-2		
						· · ·	
		, , , , , , , , , , , , , , , , , 				•	
Energe January House							

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME	SIGNATURE	ADDRESS	;
DAUID BLAKE	Dwite and	e <u>Po. (14.</u> 3)	14 marghille 4
Jerry Spapeler	- Jamppor	gl BOBN 1924	Condovo "270
ROBERT HON	KOLA ROBORA	while P.O. Box	270 EUK
	· ·		
		n 900-1-0, 0,	999
			· · · · · · · · · · · · · · · · · · ·
•			
	•		····· ··

Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

Ø

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE DDRESS Box 1829 Ordone TTER Cdv Box 711 Talkeetna, AK 9967, une

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS JOHNSON Dall BOX380C DOx17 KASILOF, 99610 2801 Volesky 120x 922 lesku Box 2322 Cor Box 380 Corbourd 0 Please return petition to J.L. Mykland, Box 1241 Cordova, AK

99574, 424-7115

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

ADDRESS PRINT NAME SIGNATURE Vetting POB01222491

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS ROX CIRCLE CITY ALS 9973. Box 1 TA.

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS 942 (5914 Kazzala zd jibe lion BEware Rad Evans Box 2 SOSC

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS Box 382 Homer, Alerka SSI and Glat 3303 IOWA PENARD IL BACON E FLACIC FLACK Jerx 881 Corlora AK 99574 Bx 1405 Corolar AK. 945 even M. Rector

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

We the undersigned request that the EVOS Trustee Council initiate and fund an Area E salmon permit buyback program.

PRINT NAME SIGNATURE ADDRESS ahan Box 873 The bra

Commercial salmon fishing in Prince William Sound was injured by the Exxon Valdez Oil Spill. Each year that commercial fishing remains below pre-spill levels compounds the injury to the fishermen and, in many instances, the communities in which they live.

Poor returns of salmon stocks to Prince William Sound have severely affected the health of our commercial fisheries. Prince William Sound is the only oiled area that is experiencing major salmon run failures. There are not enough salmon stocks to support the commercial fishing fleet in its present state.

PRINT NAME SIGNATURE ADDRESS Please return petition to J.L. Mykland, Box 1241 Cordova, AK 99574, 424-7115

July 30, 1994

EVOS Trustee Council 645 G Street Anchorage, AK 99501



Trustee Council Members,

Prince William Sound Aquaculture Corporation (PWSAC) is a non-profit regional corporation representing users and communities of the Prince William Sound-Copper River area in their efforts to rehabilitate, enhance and stabilize salmon resources and associated services. Following the *Exxon Valdez* oil spill (EVOS), salmon in PWS experienced productivity decreases, and stocks have been recognized as injured and not recovering.

PWSAC has pursued many avenues to continue its services to area residents through ongoing enhancement operations and supporting ecosystem based research, restoration and monitoring of salmon resources. The Trustee Council has been supportive through their funding of very important research towards understanding oil spill impacts to the resources and improving our understanding of the PWS-Gulf of Alaska ecosystem. It is now time to take significant restorative actions to aid the recovery process of the Sound's salmon.

In being <u>responsive</u> to concerns voiced by Trustee Council members and staff, PWSAC is submitting this new proposal which is an evolution of the proposal to fund hatchery operations to replace lost resources and services with hatchery salmon. PWSAC, guided by the voice of its constituents and as directed by its Board, proposes restoration of salmon resources in PWS through a program of professional/agency and local resident collaboration, and integration of research, restoration and monitoring objectives.

The proposal delineates a multidisciplinary program for investigating salmon resources, enumerating stocks, and assessing stock condition and genetic identity. The program further intends to take restorative action using methods among those described in the <u>EVOS Restoration Plan Draft Environmental Impact Statement (DEIS)</u> such as hatchery rearing of wild stock eggs, netpen rearing of wild stocks, and relocation of hatchery runs. The program involves a collaboration with University of Alaska Fairbanks School of Fisheries and Ocean Sciences, Alaska Department of Fish and Game, PWSAC and local residents including members of the native community.

Program objectives include:

- A. Restore wild stock salmon resources and services in PWS to pre-spill conditions.
- B. Maximize fitness (both biologic and economic) of injured wild stocks through application of knowledge of salmon population biology, genetics and disease.

Corporate Office • Post Office Box 1110 • Cordova, Alaska 99574-1110 phone: 907/424-7511 * fax: 907/424-7514

- C. Reduce harvest of injured wild stocks by more specific management of wild and hatchery stocks.
- D. Develop, integrate and coordinate collaborative participants in research, restoration and monitoring.
- E. Develop, train and use resident expertise to establish the capability for continuing conservation and protection of PWS salmon resources.

Although actions proposed focus on an FY95 timeline, the program described is planned to run through the year 2002. This length of time is crucial to restore and monitor two generations of both even and odd year pink salmon including returning adults.

In perspective, the program is collaborative and designed to integrate with current knowledge, existing and proposed projects, and provide a framework for involving local people in the restoration process. PWSAC fish culture expertise will contribute to restoration activities, and provide training to local residents who will serve as field technicians. Existing aquaculture facilities and technologies will be utilized to implement restoration methods recommended in the <u>Restoration Plan Draft Environmental Impact</u> Statement.

It is time to begin active restoration of the salmon resources of the oil impacted area. The path is provided for the collaboration and integration of program partners and objectives. The result will provide us more than knowledge and teams of developed local expertise in salmon restoration and conservation, but will also provide for a sustainable service for people and communities of Prince William Sound.

Sincerely,

Bob Roys President

(hf)

EXXON VALDEZ OIL SPILL BRIEF PROJECT DESCRIPTION

Project Title:	Restoration of PWS Wild Stock Salmon Resources and Services: An Integrated Approach		
Project Leader:	Howard Ferren, Special Projects Manager		
Lead Agency:	AK. Dept. of Fish and Game (ADF&G)		
Cost of Project	FY95: \$1,690,331; FY96 \$1,704,434		
Start/Completion:	January, 1995 - September, 1995		
Project Duration:	0.75 yr.		
Geographic Area:	Prince William Sound		
Contact Person:	Howard Ferren, Special Projects Manager PWSAC, P.O. Box 1110, Cordova, AK 99574 (907) 424-7511		

1

II. Introduction

Prince William Sound Aquaculture Corporation (PWSAC) is the regional association for salmon enhancement in the PWS area. The corporation is authorized (Section 1 ch 111 SLA 1974) for the purpose of "contributing to the rehabilitation of the state's depleted and depressed salmon fishery", and is responsible (AS 29.03.020) for "providing salmon enhancement services."

Due to the **Exxon Valdez Oil Spill (EVOS)**, wild stocks of salmon in PWS are recognized as injured. Pink salmon in particular are identified as injured and not recovering (**EVOS** Trustee Council). As a result of these injured resources, individuals and communities of PWS have suffered lost or reduced services.

The purpose of this project is to rehabilitate injured wild salmon stocks and restore services to subsistence, commercial, recreational and other users and communities of the PWS area. This will be accomplished by an integration of collaborative professional and local resident partners, and integration of objectives to actively rehabilitate injured stocks; relocate hatchery production to locations which will reduce harvest pressures on injured wild stocks; research and develop stock baseline genetic databases; determine stream escapements, and monitor both gene pools and returning adults.

This project will result in stock identification, enumeration, rehabilitation, monitoring, development and use of local expertise and evolvement in the restoration and monitoring process, and utilization of the restored and replacement resources.

1

This project will contribute to the **EVOS Trustee Council** mission to "efficiently restore the environment injured by the *Exxon Valdez* oil spill to a healthy, productive ecosystem while taking into account the importance of quality of life and the need for viable opportunities to establish and sustain a reasonable standard of living." The restoration will be accomplished through natural recovery, resource and service restoration and enhancement, replacement of resources, research and monitoring. The project falls under **EVOS** TC Draft Guiding Principles including:

- "occur within the spill area";
- "support services necessary for the people who live in the area";
- include "meaningful public participation process";
- reflect "a reasonable balance between costs and benefits";
- provide a "cost-sharing opportunity";
- "have a sufficient relationship to an injured resource"; and,
- "state a clear, measurable and achievable endpoint".

III. Need for Project

Restoration funds must be used "...for the purposes of restoring, replacing, enhancing or acquiring the equivalent of natural resources injured as a result of the oil spill or the reduced or lost services provided by such resources". This project is needed to: restore and replace <u>injured resources</u> by increasing the rate and degree of recovery of wild pink salmon stocks; and, to restore/replace <u>injured or lost services</u> by wild stock enhancement and relocation of hatchery stocks which have "sufficient relationship to the injured resource...and will benefit the same user group(s) that was (were) injured."

IV. Objectives

- A. Restore wild stock salmon resources and services in PWS to pre-spill conditions.
- B. Maximize fitness (both biologic and economic) of injured wild stocks through application of knowledge of salmon population biology, genetics and disease.
- C. Reduce harvest of injured wild stocks by more specific management of wild and hatchery stocks.
- D. Develop, integrate and coordinate collaborative participants in research, restoration and monitoring.
- E. Develop, train and use resident expertise to establish the capability for continuing conservation and protection of PWS salmon resources.

V. Methods

Four methods will be used to accomplish the immediate objectives of salmon stock restoration; a fifth will serve the longer-term objective of establishing expertise to practice sustained efforts in stock restoration. The restoration methods include direct restoration through use of available fish cultural facilities and talent in PWS; research into biological interactions, **particularly genetic** effects of cultured salmon on wild salmon; integrated monitoring of the fitness of salmon stocks and their progress toward restoration; and, collaboration of partners to restore the Sound by integrating and coordinating activities. These methods, particularly the research and monitoring aspects, follow in concept a model for monitoring interactions of wild and hatchery salmon recently set forth by an international panel of salmon geneticists and conservation scientists convened by NINA (Norweg. Instit. Nature Res.). They emphasize the necessity of monitoring a baseline of genetic and fitness (phenotypic) data, of understanding the extent of gene flow between stocks, and of studying the biological effect of gene flow through quantitative genetic analysis.

The proposed methods anticipate the integrated cooperation of projects independently proposed by other agencies and groups; some of those projects are referenced here. Because of the schedule with which this revision has been undertaken there has not been formal communication and coordination with those agencies and groups. However, no impediments to integration of those projects into the restoration of wild stock resources are anticipated. A workshop is proposed to bring collaborators together to integrate and plan activities.

The work proposed will be carried out in part through the cooperation of several agencies active in salmon resource management in PWS (PWSAC, ADF&G). Portions of the genetic-interaction research will be carried out by the University of Alaska Fairbanks School of Fisheries and Ocean Sciences (SFOS) and will provide opportunity for graduate thesis research and professional development for junior biologists in PWS. PWS residents will participate in field restoration and monitoring activities.

A. Directly restore injured stocks.

- 1. Assess and inventory hatchery capabilities: water regimes, incubation capacity, stock isolation capability, etc. This will be completed to help match hatchery constraints or opportunities with specific injured or depleted wild salmon stocks identified as candidates for restoration which may benefit from hatchery/fish culture intervention.
- 2. Incubate eggs taken from injured stocks, returning them as fry to the native site via net pen culture (cf Draft EIS, Proposed Action, Comprehensive Restoration of Impacts on Fish, Action 3, Ch. 4, p. 124).
- 3. Rear and release hatchery fish to divert harvest from injured wild stocks (cf Draft EIS, Proposed Action, Comprehensive Restoration of Impacts on Fish, Action 4, Ch. 4, p. 124; See C.1. below).

B. Maximize fitness of wild stocks.

1. Mark or tag hatchery stocks: a research and monitoring tool. <u>a. Coded micro wire tagging</u>: Refer to Project Proposal 95137, 95320: Stock ID and Monitoring Studies. <u>b.</u> <u>Thermal manipulation of otolith microstructure</u> Contained in Project Proposal 95320C, Otolith thermal mass marking.

2. Monitor stock baselines: a reference for assessment of progress; a basis for setting policy for restoration decisions.

<u>a.</u> <u>Census:</u> enumerate stocks of wild salmon by ground surveys in five districts of PWS to contribute to stock baseline information including species, stocks and stock size in oiled and unoiled areas.

<u>b.</u> <u>Demography:</u> fitness and life history traits of stocks: sample age, size, sex, timing, meristic/morphologic information from stocks. This information will aid in identifying injured and depleted stocks which will be targeted for further research, monitoring and possible restoration.

<u>c.</u> <u>Gene frequencies:</u> representative samples of tissues from stocks; contained in Project Proposal 95320D by Seeb & Seeb.

<u>d.</u> <u>Pathogens and parasites:</u> representative samples of tissues, fluids from stocks.

<u>e. Marks and tags:</u> recover marks and tags from representative samples of stocks.

3. Research genetic interactions of wild with wild stocks; hatchery with wild stocks

a. Straying/gene flow field experiment: (SFOS Division of Fisheries) This research is modelled on earlier work on pink salmon at Auke Creek in Juneau by A.J. Gharrett and colleagues. Straying may be estimated by observing physically marked or tagged salmon; however, straying is only one component of gene flow--strays may well not breed successfully to contribute genetically. Our proposed protocol is to screen male returning salmon at a weir, allowing about 20%, those bearing a relatively rare presumably neutral gene, to spawn naturally. This procedure genetically tags the stock; applied with different marker genes to two stocks in the same region, a precise estimate of actual gene flow can be obtained by simple monitoring of the stocks over several generations. Integrates with Project Proposal 95076 by Wertheimer, et al.

<u>b.</u> Fitness phenotype laboratory experiment: quantitative genetic analysis of life history and fitness traits. (SFOS Division of Fisheries) This research is developed from earlier work on pink salmon at Auke Creek and at Gastineau Hatchery by W.W. Smoker, P.A. Crandell, and colleagues. Gametes sampled from known parents in stocks under restoration will be taken to the incubation laboratory at Juneau and observed under a standard quantitative genetic experimental design. Analysis of observations of fitness-related developmental traits (rates of development, salinity tolerance, etc.) and developmental stability (fluctuating asymmetry of meristic and morphologic traits) will provide estimates of genetic parameters, and from observations of hybrid families, direct estimates of the fitness effects of gene introgression.

c. Analysis of fitness effects on wild stocks of interactions with cultured fish based on observed PWS data. (SFOS Division of Fisheries) Recent biometrical simulations of hypothetical salmon production systems, modelled on PWS pink salmon, by AJ Gharrett have demonstrated a relationship between ecological productivity (carrying capacity) and the overall fitness benefit of homing or straying. These models will provide a basis for analyzing with biometrical rigor the straying, gene flow, population genetic structure, and quantitative fitness variation data collected by other components of this integrated project.

d. Incorporate genetic interaction insights in rehabilitation activities.

C. Reduce harvest of injured wild stocks by more specific management of wild and hatchery stocks.

1. Relocate hatchery runs in space or season(cf Draft EIS, Proposed Action, Comprehensive Restoration of Impacts on Fish, Action 4, 6 Ch. 4, p. 124)

a. Use appropriate remote releases (cf Phase Three Comprehensive Salmon Plan for Prince William Sound/Copper River). Based on site selection criteria and site evaluation, imprint and remote release hatchery fish to reduce possible harvest pressures on injured wild stocks which might migrate through fisheries conducted near hatcheries or targeting enhanced salmon migrating to the hatchery of incubation and rearing. For example, hatchery salmon could be released in the Eastern, Southeastern and/or Montague Districts, thereby distributing the commercial fleet and reducing harvest pressures on injured stocks in the Northwestern and Southwestern Districts.

b. Develop new hatchery stocks with inherent run timing different from injured wild stocks (cf Phase Three Comprehensive Salmon Plan for Prince William Sound/Copper River). Identify and select from the salmon stock census, stocks which have adult return run time different from that of injured or depleted wild stocks which may be currently harvested in fisheries targeting returning hatchery salmon. By culturing temporally isolated salmon stocks, fisheries can be managed without placing additional pressure on injured stocks. Consideration must be given to species in addition to pink salmon if those species provide the temporal and spatial isolation necessary to reduce pressures on injured pink stocks. Of particular potential are early run time chum and sockeye salmon.

- 2. Identify hatchery stocks in season and manage harvests accordingly. Otolith marking and CWT tag recovery and assessment (B.1. above).
- D. Project collaboration and activity integration.
 - 1. Convene working group of research and restoration collaborators. Agencies, organizations and groups which are identified by PWSAC as required within a collaborative network for salmon restoration to complete the objectives outlined within this proposal, will convene in Cordova to integrate objectives and activities including and in addition to those outlined within this proposal.
 - 2. Integrate projects while formulating strategies and agreements towards implementation of activities. Establish project manager and management team, communication and decision making protocols, priorities and implementation plans.
- E. Employ resident sector-specific technical teams (5 sectors corresponding to major fishing districts, see Figure 1). Teams responsible for surveys, sampling, egg takes, pen rearing, etc. Communications have been initiated with Eyak Tribal Council on project potentials and participation.
 - 1. Contract five vessels and crew for field work including stream surveys, escapement enumeration, stock sampling, egg take, netpen and fry rearing support or other salmon restoration activities identified as appropriate. PWSAC will exercise standard contract procedures and employment options.
 - 2. Provide technical training to crews in salmon escapement enumeration, and working with technical, academic and professional staff in genetic, disease and marked salmon recovery sampling, fish culture techniques, restoration methods and stock monitoring. Training will be provided survey, monitoring, sampling and fish culture crews by PWSAC, ADF&G and University of Alaska SFOS as required.
 - 3. Deploy vessels and teams for stream surveying, stock assessment, sampling, restoration activities and monitoring. Historic observations indicate that early returning salmon stocks spawn in the Eastern and Southeastern Districts. Therefore, two vessels and technical teams are to be deployed to those sectors from June 23 to August 15. Beginning August 15, five vessels and crews are to be deployed, one to each sector of PWS, and remain in the field until September 25. The project leader and field technicians trained and assigned to each vessel and sector will survey, sample, monitor, compile data and report as required. Additional assignments may include, based on restoration requirements, taking eggs, managing net pens, rearing fry for imprinting, or other enhancement or rehabilitation activities.

V. Schedule for FY-95

NOTE: The schedule is presented for FY-95. Specific objectives and activities are intended to occur annually to encompass two (2) life cycles for both odd year and even year pink salmon. A schedule will be presented in the <u>detailed project description</u> (DPD) which delineates the workplan through the year 2002. A generalized listing of the extended workplan and timeline is presented in **Figure 2**.

Activity	Begin	End
Convene workshop	<u> </u>	
Contact all collaborators	1/95	1/95
Convene workshop	2/95	2/95
Integrate objectives/activities	2/95	2/95
Finalize workplans	2/95	3/95
Evaluate hatchery capabilities		
Analyze facility temp and water flows	1/95	2/95
Review incubation and facility floor plans	2/95	3/95
Compute species/stock limitations	2/95	3/95
Report on recommendations	3/95	4/95
Develop five sector technical teams		
Contract vessels and crews	1/95	4/95
Contract technicians	3/95	4/95
Train field crews	4/95	5/95
Monitor stock baselines		
Stock surveys	6/95	10/95
Census/demographics	6/95	10/95
Marks/tags/tissue samples	6/95	10/95
Direct restoration		
Incubate injured-stock eggs	7/95	12/95
Survey injured stocks	6/95	10/95
Collect injured stock eggs	6/95	10/95
Incubate embryos	8/95	12/95
Pen rear & release fry	1996	,
Evaluate & revise plan	1996	
Recover marks/tags	1997	
Plan next cycle	1997	
Realign hatchery stock releases		
Remote release hatchery fish	4/95	6/95
Survey sites	4/95	5/95

j		
Activity	Begin	End
Pilot scale releases	4/95	5/95
Evaluate releases/returns	1996	
Production releases	(decision point)	
Develop new broodstocks	7/95	12/95
Survey stocks	7/95	10/95
Remote egg takes	7/95	10/95
Incubate and release	8/95	1996
Geneflow field experiment		
Establish genetic tag	7/95	9/95
(2 camps/screen males)		
Sample returns	1997	×
Analyze gene flow	1997	
Report	1998	
Quantitative genetic analysis of fitness traits		
Sample gametes in field	7/95	10/95
Incubate embryos in lab and	10/95	1996
Analyza	1006	
Report	1997	
Model fitness effects of genetic		
Interactions: develop simulation		
models for:	0/05	11/05
Gene flow and drift	2/95	11/95
Single locus selection	7/95	1996
Quantitative/fitness trait	12/95	1997
population dynamics	1996	1997
Incorporate PWS data	1998	

Report

VI. Technical support

Technical support will include the services of:

- PWSAC planning, project management and fish culture staff
- ADF&G biologists and technicians
- University of Alaska geneticists and other experts in this field
- ADF&G pathologist
- permitting agencies including ADF&G, Department of Army, Corps of Engineers, Department of Natural Resources
- ADF&G otolith mark analysis lab

VII. Location

This project will take place in Prince William Sound. Field crew activities will take place within districts of PWS as divided into five sectors (Figure 1) including the Southeastern, Eastern, Northern-Coghill-Northwestern, Southwestern and Montague Districts. Hatchery incubation and rearing of wild stock salmon will occur at PWSAC hatchery facilities; specific facilities selected will be based on evaluation of site capabilities and wild stock biological requirements. PWSAC facilities include the Armin F Koernig Hatchery on Evans Island, the Main Bay Hatchery near Crafton Island, the Wally Noerenberg Hatchery on Esther Island, and the Cannery Creek Hatchery in Unakwik Inlet.

VIII. Project Implementation

PWSAC will implement the project in conjunction with ADF&G as the lead agency and other collaborating organizations. Restoration management will be based within PWSAC and PWSAC will be responsible for coordinating activities under this proposal including research, restoration and monitoring.

IX. Coordination of Integrated Research Effort

Activities of the salmon restoration program will be integrated with ongoing genetic investigations, stream analysis, stock identification and monitoring studies, and otolith marking (Figure 3).

X. Public Process

PWSAC is a regional association which by law (AS 16.05.380.) must include on their boards representatives of sport fishermen, municipalities, and Native organizations, in addition to commercial fishermen and processors. It is PWSAC's mission to optimally produce salmon for the benefit of all user groups.

As a mechanism to restore PWS salmon resources and services, the PWSAC salmon restoration project will incorporate existing research results achieved through projects previously and currently funded by the EVOS Trustee Council process. In addition, specific stock and stream restoration options may be recommended by users and villages within PWS. Local vessels, skippers and crews will be solicited from interested public and contracted for training and field work.

XI. Personnel Qualifications

Personnel: PWSAC

H.J. Ferren

Special Project Manager, Planner M.S. Biological Oceanography, University of Alaska Corporate strategic and tactical planning, regional salmon planning, team facilitation and project management.

Personnel: University of Alaska, SFOS

W.W. Smoker

Professor of Fisheries, SFOS. PhD Fisheries, Oregon State Univ. Research in salmon ocean ranching, quantitative genetics of Pacific salmon.

A.J. Gharrett

Professor of Genetics, SFOS

PhD Genetics, Oregon State Univ

Research on molecular genetics, population genetics of Pacific salmon.

Recognized expert on population genetics of Pacific salmon, Genetic Stock Identification, genetic tagging

Patricia A. Crandell

Postdoctoral Fellow and Research Associate, SFOS PhD Aquaculture Genetics, Biometrics Univ. of Calif Davis Research on quantitative genetics of pink salmon, ploidy manipulation in Pacific salmon Expertise in experimental design and statistical analysis.

Andrew Gray

Research Associate, SFOS MS Genetics, Washington State University Molecular genetics techniques, Electrophoretic analysis of allozymes, DNA analysis

Budget FY95

PWSAC	·	
100	Personnel	\$135,120
200	Travel	\$30,700
300	Contractual Services	\$747,000
	Administration	\$161,895
400	Commodities	\$32,480
500	Equipment/capital	<u>\$134,000</u>
	SUBTOTAL	\$1,241,195
UAF SFOS (partner in genetics)	
100	Personnel	\$231,080
000		
200	Travel	\$7,200
200 300	Travel Contractual Services	\$7,200 \$16,000
200 300	Travel Contractual Services Administration	\$7,200 \$16,000 \$74,856
200 300 400	Travel Contractual Services Administration Commodities	\$7,200 \$16,000 \$74,856 \$20,000
200 300 400 500	Travel Contractual Services Administration Commodities Equipment/capital	\$7,200 \$16,000 \$74,856 \$20,000 <u>\$100,000</u>

TOTAL PROJECT BUDGET

\$1,690,331.

Figure 1

Prince William Sound

Sectors for Research, Restoration and Monitoring



Sectors

- 1: Southeastern District
- 2: Eastern District
- 3: Northern-Northwestern-Coghill Districts
- 4: Southwestern-Eshamy Districts
- 5: Montague District

Hatcheries

Solomon Gulch

Cannery Creek Wally Noerenberg

Main Bay Armin F. Koernig

EVOS Trustee Council: Project Description Restoration of PWS Wild Stock Salmon Resources and Services

Figure 2: Time-line and activities

(\pwsac\evos\fig95-2)				
1995	5	199	7	1999
(odd year pink salmon)	 evaluate hatchery capabilities assess existing stream research contract vessels and crew train field crew contract technicians conduct stream/stock surveys evaluate remote release sites collect gene & disease samples analyze samples collect & transport BY95 eggs incubate BY95 eggs otolith mark embryos 	 transport and rear BY95 fry release BY95 fry conduct stream/stock surveys evaluate remote release sites collect gene & disease samples analyze samples collect & transport BY96 eggs incubate BY96 eggs otolith mark embryos 	 transport and rear BY96 fry release BY96 fry conduct stream/stock surveys collect gene & disease samples analyze gene flow remote release hatchery fish sample BY95 adults for marks analyze for otolith marks collect & transport BY97 eggs incubate BY97 eggs otolith mark embryos 	 transport and rear BY96 fry release BY96 fry conduct stream/stock surveys collect gene & disease samples analyze samples remote release hatchery fish sample BY95 adults for marks analyze for otolith marks collect & transport BY98 eggs incubate BY98 eggs otolith mark embryos
	199	0	199	5

1999 2001 - transport and rear BY98 fry - conduct stream/stock surveys - release BY98 fry - collect gene samples - conduct stream/stock surveys - analyze samples - remote release hatchery fish - collect gene samples - analyze samples - remote release hatchery fish - sample BY96 adults for marks - analyze for otolith marks - conduct stream/stock surveys - collect gene samples - analyze samples - conduct stream/stock surveys - remote release hatchery fish - collect gene samples - sample BY98 adults for marks - analyze samples - remote release hatchery fish - analyze for otolith marks ----2002 2000

Figure 3: Integration of Research, Restoration and Monitoring

COMPONENT	ACTIVITY	INTEGRATION
Research	Stream - stock identification	ADF&G USFS PWS resource users
Research	Stream - stock surveys and escapement enumeration	PWSAC ADF&G Trained technicians and vessel crews
Research	Genetic and disease sampling	Technicians ADF&G
Research	Gene analysis; gene flow simulation	ADF&G University of Alaska, SFOS NMFS: Auke Bay Lab
Research	Disease analysis	ADF&G
Research	Evaluate remote release sites for hatchery fish	PWSAC ADF&G
Restoration	Egg-take from wild stock system(s)	PWSAC ADF&G technicians Vessel crews
Restoration	Incubation and rearing wild stock	PWSAC
Restoration	Imprint and release wild stock	PWSAC Vessel crews
Restoration	Remote release hatchery fish	PWSAC ADF&G
Research	Otolith marking	ADF&G PWSAC
Research and monitoring	Adult return, enumeration and otolith mark sampling	PWSAC ADF&G technicians Vessel crews
Research and monitoring	Otolith analysis	ADF&G



MEMORANDUM

TO: Public Advisory Group

FROM: Molly McCammon, Director of Operations

DATE: August 1, 1994

SUBJ: Research Topics Addressed in FY 95 Project Proposals

As indicated by the attached tables, after preliminary review, the forty six research project proposals received in response to the *Invitation to Submit Restoration Projects for Fiscal Year 1995* that were categorized as either a category 1 or 2 project can be organized around a number of topics.

These include:

- PWS System Investigation
- Forage Fish
- Stable Isotopes
- Nearshore Ecosystem
- Ecotoxicology
- Other Projects

A summary of the number and cost of these projects is attached.

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

ORAFT

į,

RESEARCH TOPIC	· · · · · · · · · · · · · · · · · · ·	<u> </u>		(\$000's)
PWS System Investigation	Category 1 Category 2	(12 projects) (0 projects)	\$4,789.4 \$0.0	\$4,789.4
Forage Fish	Category 1 Category 2	(7 projects) (0 projects)	\$2,676.7 \$0.0	\$2,676.7
Stable Isotopes	Category 1 Category 2	(2 projects) (2 projects)	\$173.5 \$210.0	\$383.5
Nearshore Ecosystem	Category 1 Category 2	(4 projects) (2 projects)	\$526.1 \$414.8	\$940.9
Ecotoxicity	Category 1 Category 2	(5 projects) (0 projects)	\$1,380.3 \$0.0	\$1,380.3
Other Research	Category 1 Category 2	(6 projects) (6 projects)	\$1,778.7 \$1,193.5	\$2,972.2

TOTAL

\$13,143.0

Research Category: PWS System Investigation

DRAFT

-		Project No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes
	Ca	tegory 1						\$4,789.4] .
	1	95320A	Salmon Growth and Mortality	ADFG	ADFG	PWS	Cont'd	\$267.8	This sub-project, as part of the PWS System Investigation, was extensively peer reviewed in FY 94. FY 95 proposal continues first year effort. A peer review of first year progress will take place in the fall of 1994 with information presented to Trustee Council in late October. Note: This sub-project depends on Project 95320B (CWT), a project with policy/legal concerns.
}	1	95320E	Juvenile Salmon and Herring Integration	ADFG	ADFG	PWS	Cont'd	\$1,032.1	This sub-project, as part of the PWS System Investigation, was extensively peer reviewed in FY 94. FY 95 proposal continues first year effort. A peer review of first year progress will take place in the fall of 1994 with information presented to Trustee Council in late October. Expansion of predator study to include herring should go forward in cost-effective manner.
	1	95320G	Phytoplankton and Nutrients	McRoy, UAF	ADFG	PWS	Cont'd	\$227.3	This sub-project, as part of the PWS System Investigation, was extensively peer reviewed in FY 94. FY 95 proposal continues first year effort. A peer review of first year progress will take place in the fall of 1994 with information presented to Trustee Council in late October.
	1	95320H	Role of Zooplankton in the PWS Ecosystem	Cooney, UAF	ADFG	PWS	Cont'd	\$235.1	This sub-project, as part of the PWS System Investigation, was extensively peer reviewed in FY 94. FY 95 proposal continues first year effort. A peer review of first year progress will take place in the fall of 1994 with information presented to Trustee Council in late October.
	1	95320J	Information Systems and Model Development	Patrick, PWS Science Center	ADFG	PWS	Cont'd	\$789.6	This sub-project, as part of the PWS System Investigation, was extensively peer reviewed in FY 94. FY 95 proposal continues first year effort. A peer review of first year progress will take place in the fall of 1994 with information presented to Trustee Council in late October. Important to ensure successful accomplishment of sub-project objectives prior to expansion.

DRAFT Updated - 8/1/94

Research Category: PWS System Investigation



		Project No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes
	1	95320M	Observational Physical Oceanography in PWS and the Gulf of Alaska	Salmon, PWS Science Center	ADFG	PWS	Cont'd	\$545.2	This sub-project, as part of the PWS System Investigation, was extensively peer reviewed in FY 94. FY 95 proposal continues first year effort. A peer review of first year progress will take place in the fall of 1994 with information presented to Trustee Council in late October. Need to ensure that this sub-project is more closely coordinated with other bird, forage fish projects.
)	1	95320N	Nearshore Fish	Thomas, PWS Science Center	ADFG	PWS	Cont'd	`\$600.6	This sub-project, as part of the PWS System Investigation, was extensively peer reviewed in FY 94. FY 95 proposal continues first year effort. A peer review of first year progress will take place in the fall of 1994 with information presented to Trustee Council in late October. Coordination of hydroacoustics work in Project 95163 is essential.
	1	95320Q	Avian Predation on Herring Spawn	USFS	ADFG	PWS	Cont'd	\$124.8	This sub-project, as part of the PWS System Investigation, was extensively peer reviewed in FY 94. FY 95 proposal continues first year effort. A peer review of first year progress will take place in the fall of 1994 with information presented to Trustee Council in late October.
	1	95320S	Disease Impacts on PWS Herring Populations (competetive project solicitation under ADF&G two-step, RFQ-RFP process)	ADFG	ADFG	PWS	Cont'd	\$375.0	Five responses have been received as a result of the herring disease project solicitation. Under state law, these responses must be evaluated confidentially. Needs to be assessed as part of a comprehensive herring restoration effort. A recommendation regarding whether to proceed with funding for a herring disease project will be made to the Trustee Council in late October. FY 95 budget for this project is only an estimate.
	1	95320T	Juvenile Herring Growth and Habitat Partitioning	ADFG	ADFG	PWS	NEW	\$378.6	Addresses an injured resource of critical concern to commercial fisheries. Proposal concept is strong, although more complete evaluation of technical merit would require additional information. Needs to be assessed as part of a comprehensive herring restoration effort.

DRAFT Updated - 8/1/94

Page 2

Research Category: PWS System Investigation

DRAFT

	Project No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes
1	95320U	Somatic and Spawning Energetics Herring and Pollock	of Paul, UAF	ADFG	ALL	NEW	\$94.4	Clarification of specific restoration objectives needed. Project needs to be evaluated in the context of, and possibly integrated with, other herring projects 95074 (herring reproductive impairment); 95163 (forage fish), 95320E (salmon herring integration), 95320N (nearshore fish); 95320T (juvenile herring growth), 95120 (energetic composition of selected forage fish), 95166 (herring nata habitats) and 95121 (isotope and fatty acid signatures of selected forage fish).
1	95320Y	Variation in Local Predation Rates Hatchery-Released Fry	s on Scheel, PWS Science Center	ADFG	PWS	NEW	\$118.9	Potentially valuable information on avian predation on hatchery stocks. Could complement fish predation study information. Should review this project proposal in relation to Project 95033 (kittiwakes as indicators of forage fish). Apparently depends on large-scale hatchery production. Budget needs scrutiny.
			otal FY 95 Requ Number of Proje	est: cts:			\$4,789.4 12	

DRAFT Updated - 8/1/94

Research Category: Forage Fish

DRAFT

	Project No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes		
Ca	tegory 1						\$2,676.7]		
1	95019	Distribution of Forage Fish as Indicated by Puffin Diet Sampling	DOI	DOI	PWS KEN	NEW	\$284.4	Potentially an extremely valuable project although puffins have limited distribution in PWS. This project needs to be further evaluated under the direction of the Chief Scientist in the context of the many other proposals being advanced to study trophic interactions of forage fish.		
1	95033	Kittiwakes as Indicators of Forage Fish Availability	DOI	DOI	PWS KEN	NEW	\$198.5	This project needs to be further evaluated under the direction of the Chief Scientist in the context of the many other proposals being advanced to study trophic interactions of forage fish. Should review this project proposal in relation to Project 95320Y (variation in local predation on hatchery fry).		
1	95117-BAA	Harbor Seals and EVOS: Blubber and Lipids as Indices of Food Limitation	Castellini, UAF	NOAA	ALL	NEW	\$184.3	Potential opportunities for collaborative effort and cost efficiencies between this project and Projects 95001 (condition and health of harbor seals) and 95064 (monitoring, habitat use and trophic interactions of seals) must be addressed.		
1	95118-BAA	Diet Composition, Reproductive Energetics and Productivity of Seabirds Damaged by the Exxon Valdez Oil Spill	Roby, UAF	NOAA	PWS	NEW	\$413.7	This project needs to be further evaluated under the direction of the Chief Scientist in the context of the many other proposals being advanced to study trophic interactions of forage fish. Peer reviewers thought very highly of this project; strong technical merit.		
1	95120-BAA	Proximate Composition and Energetic Content of Selected Forage Fish Species in PWS	Worthy, Texas A&M University	NOAA	PWS	NEW	\$38.4	This project needs to be further evaluated under the direction of the Chief Scientist in the context of the many other proposals being advanced to study trophic interactions of forage fish. Also, objectives of this project need to be integrated into other projects involving stable isotopes. Project needs to demonstrate a close relationship with other projects including 95163 (forage fish) and 95320U (somatic and spawning energetics of herring and pollock). Strong qualifications of proposer.		

Research Category: Forage Fish

DRAFT

		Project No.	Title		Proposer	Lead Agency	Loc.	Ргој. Туре	Cost FY 95	Notes
	1	95163	Abundance and Distribution of Fish and their Influence on R Injured Species	of Forage ecovery of	NOAA	NOAA	PWS KEN	Cont'd	\$1,203.7	This project needs to be further evaluated under the direction of the Chief Scientist in the context of the many other proposals being advanced to study trophic interactions of forage fish. Project scope may need to be reduced in light of slow start up of 1994 pilot study. Coordination of hydroacoustics work in 95320N is essential.
	1	95173	Factors Affecting Recovery o Pigeon Guillemot Populations	of PWS	DOI	DOI	PWS	Cont'd	\$353.7	This project needs to be further evaluated under the direction of the Chief Scientist in the context of the many other proposals being advanced to study trophic interactions of forage fish.
)			:							
				Total	FY 95 Red	quest:			\$2,676.7	
				Nun	iber of Pro	jects:			7	

Research Category: Stable Isotopes

DRAFT

Project No.	Title	Proposer	Lead Agency	Loc.	Ргој. Туре	Cost FY 95	Notes
Category 1						\$173.5]
1 95320I(1)	Isotope Tracers - Food Webs of Marin Mammals and Birds	ne Schell, Institute of Marine Science	ADFG	PWS	Cont'd	\$100.1	Strong technical merit and demonstrated understanding of technical issues involved. Objectives of this project need to be integrated with other projects involving stable isotopes under the direction of the Chief Scientist.
1 95320I(2)	Isotope Tracers - Food Webs of Fish	Kline, UAF	ADFG	PWS	Cont'd	\$73.4	Objectives of this project need to be integrated with other projects involving stable isotopes under the direction of the Chief Scientist.
Category 2						\$210.0]
2 95023	Food Web Relationships of Pelagic Species Exhibiting Long-term Decline	Duffy, Alaska Natural Heritage Program	DOI	PWS	NEW	\$168.0	Needs further evaluation under direction of the Chief Scientist in the context of other proposals to address forage fish. Needs evaluation in context of projects using stable isotope analysis. Revised scope for this project may be needed. Concern regarding collection of carcasses under MBTA.
2 95121	Stable Isotope Ratios and Fatty Acid Signatures of Selected Forage Fish Species in PWS	Worthy, Texas A&M University	NOAA	PWS	NEW	\$42.0	This project needs to be further evaluated under the direction of the Chief Scientist in the context of the many other proposals being advanced to study trophic interactions of forage fish. Also, objectives of this project need to be integrated into other projects involving stable isotopes under the direction of the Chief Scientist. Utility of fatty acid studies needs careful assessment.
-	г		· · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
· .	Tota	l FY 95 Requ	iest:			\$383.5	
	Nu	mber of Proj	ects:			4	

Research Category: Nearshore Ecosystem

DRAFT

	Project No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes	
Ca	tegory 1				•		\$526.1]	
1	95025B	Sea Otter Abundance and Distribution, Food Habits and Population Assessment	DOI	DOI	PWS	NEW	\$162.7	Clear objectives consistent with the <i>Invitation</i> although project description needs some further detail. Well qualified proposers. Should possibly be integrated with Projects 95025H (effects of predatory invertebrates on clams), 95009C (trophic dynamics: herring spawn and sea otters), 95087 (sea urchins as sea otter prey) and coordinated with Projects 95244 (seal/sea otter harvest assistance), 95075 (blue mussels), 95090 (mussel bed restoration) and 95159 (marine bird/sea otter survey).	
1	95025C	Pigeon Guillemots and River Otters as Bioindicators of Nearshore Ecosystem Health	Roby, UAF	DOI	PWS	NEW	\$179.6	Clearly stated objectives pertaining to injured resources consistent with the <i>Invitation</i> . Reviewers impressed with linkage of two foragers using the same habitat/prey. Effort to define bioindicator is valuable but may not be successful; proposal is responsible in its cautious approach. Should be coordinated with Project 95173 (recovery of pigeon guillemots) to realize possible cost efficiencies.	
1	95025H	Effects of Predatory Invertebrates on Nearshore Clam Populations in Prince William Sound	Van Blaricom, UAF	DOI	PWS	NEW	\$118.4	Affords opportunity to investigate two injured resources (clams and sea otters) and their interrelationship as predator and prey. Important that investigators on projects addressing higher trophic level predators (sea otters) help define issues of importance to be addressed by project. Should possibly be integrated with 95025B (sea otter abundance, food habits).	
1	95087	Sea Urchin Population Dynamics: Changes in Population Density and Availability as Prey of Sea Otters	Jewett, UAF	ADFG	PWS	NEW	\$65.4	Project should possibly be integrated with Projects 95025B (sea otter abundance, food habits), 95009C (trophic dynamics: herring spawn and sea otters), 95025H (predatory invertebrates on clams) under direction of Chief Scientist in consultation with investigators working on sea otters. Needs clarification relative to other predator projects. Potentially important if redesigned.	

Research Category: Nearshore Ecosystem

DRAFT

_	Project No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes
	Category 2						\$414.8]
	2 95009C	Trophic Dynamics and Energy Flow: Impacts of Herring Spawn and Sea Otte: Predation on Nearshore Benthic Community Structure	Highsmith, UAF r	USFS	PWS	NEW	\$217.3	The sea otter elements of this proposal could possibly be combined with Project 95025B (sea otter abundance and distribution, food habits and population). Portions relating to herring spawn could be addressed as part of other herring project efforts.
,	2 95075	Population Structure of Blue Mussels in Relation to Levels of Oiling and Densitie of Vertebrate Predators	NOAA es	NOAA	PWS	NEW	\$197.5	Project unfocused. Significant questions concerning methodologies. More focused project of reduced scope might have value in coordination with 95025B (sea otter abundance, food habits). Possible that elements of this proposal could be redefined and/or integrated with a revised nearshore/shelfish project.

Total FY 95 Request:	\$940.9
Number of Projects:	6

Research Category: Ecotoxicity

DRAFT

	Project No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes
Cat	egory 1						\$1,380.3]
1	95044	In Situ Formation and Ecotoxicity of Hydrocarbon Degradation Products Produced by Ultramicrobacteria	Button, UAF	NOAA	PWS	NEW	\$118.5	Novel issue to be addressed. Need for further review of budget. Potential for collaboration with other projects needs further examination.
1	95074 _.	Herring Reproductive Impairment	NOAA	NOAA	PWS	Cont'd	\$234.8	Important attempt to determine if there are persistent, heritable reproductive impacts to herring in view of recent run failures. Responsive to <i>Invitation</i> . Strong technical merit. Needs further assessment in the context of other projects proposed to address herring
1	95076	Effects of Oiled Incubation Substrate on Survival and Straying of Wild Pink Salmon	NOAA	NOAA	ALL	NEW	\$179.9	Proposal responsive to restoration needs, addresses important ecotoxicological issue. Proposer should provide more background on similar work.
1	95191A	Investigating and Monitoring Oil Related Egg and Alevin Mortalities	ADFG	ADFG	ALL	Cont'd	\$681.5	A critical, on-going study effort (together with 95191B) to evaluate the possibility of long-term, heritable damage to salmon. Already extensively peer reviewed in prior years.
1	95191B	Injury to Salmon Eggs and Pre-emergent Fry Incubated in Oiled Gravel (Laboratory Study)	NOAA	NOAA	ALL	Cont'd	\$165.6	A critical, on-going study effort (together with 95191A) to evaluate the possibility of long-term, heritable damage to salmon. Already extensively peer reviewed in prior years.

Total FY 95 Request:	\$1,380.3
Number of Projects:	5

Research Category: Other

DRAFT

		Project No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes
	Ca	tegory 1						\$1,778.7]
	1	95009D	Survey and Experimental Enhancement of Octopuses in Intertidal Habitats	Scheel, PWS Science Center	USFS	PWS	NEW	\$159.5	Addresses resources (octopus and chiton) important to subsistence communities. Proposal can stand independent of nearshore ecosystem/community structure package. Geographical scope and scale of effort deserve further consideration. Need to coordinate with subsistence community outreach projects.
`.	I	95014	Predation by Killer Whales in PWS: Feeding Behavior and Distribution of Predators and Prey	Matkin, North Gulf Oceanic Society	NOAA	PWS	NEW	\$156.9	Good conceptual development and justification articulated in proposal. Results could enhance interpretation of PWS ecosystem work on trophic interactions. Less important than monitoring of killer whales (killer whales thought to be recovering) but still could provide valuable data on resource. Clarification of cost in relation to related Project 95013 (monitor killer whales) needed.
	1	95025A	Factors Affecting Recovery of Sea Ducks and Their Prey	DOI	DOI	PWS	NEW	\$393.7	Proposal to address winter ecology of seabirds is important aspect not previously addressed. Possibly should focus effort on harlequins although inclusion of scoters would address valuable issues. Need to coordinate or combine with Project 95427 (harlequin duck recovery monitoring). Questions concerning feasibility of proposed capture techniques.
	1	95031	Reproductive Success as a Factor Affecting Recovery of Murrelets in PWS	DOI 5	DOI	PWS	NEW	\$398.0	Highly responsive to <i>Invitation</i> . Clearly articulated relationship to restoration objective for marbeled murrelets. Well qualified proposer.
* 1	1	95064	Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in PWS	ADFG	ADFG	PWS	Cont'd	\$309.4	Project targets an injured resource important to subsistence communities. Good potential to collaborate with other harbor seal projects (Projects 95001 and 95117-BAA). Strong technical merit and excellent qualifications of proposer. Need to coordinate with subsistence community outreach efforts.

Page 1

Research Category: Other

DRAFT

	Project No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes
1	95105	Kenai River Ecosystem Restoration Pilot Enclosure Study	ADFG	ADFG	KEN	NEW	\$361.2	Further clarification needed on interrelationship of this project to other major Kenai River sockeye projects 95255 (Kenai sockeye restoration) and 95258 (sockeye salmon overescapement). A comprehensive review of the Kenai River sockeye restoration effort is needed.
Ca	tegory 2						\$1,193.5	
2	95018	Partitioning of Primary Production Between Pelagic and Benthic Communities	Naidu, UAF	ADFG	PWS	NEW	\$197.1	Link to restoration not clear but potentially valuable part of future ecosystem studies.
2	95021	Seasonal Movement and Pelagic Habitat Use by Common Murres from the Barrer Islands	DOI	DOI	KEN	NEW	\$251.1	Questions concerning whether useful results could be obtained in a short time period. Feasibility study should be completed before funding this project. Could be deferred for consideration in FY 96.
2	95025E	Algal Competition Limiting Recovery in the Intertidal	Stekoll, UAF	DOI	KEN	NEW	\$222.5	A good proposal but very narrowly focused. Species to be addressed by project not regarded as a high priority for restoration. Proposed study area/habitat type is unique.
2	95025F	Availability and Utilization of Musculus spp. as Food for Sea Ducks and Sea Otters	Dean, Coastal Resources Associates, Inc.	DOI	PWS	NEW	\$4.6	Although potential cost-effectiveness is high, the methodology is unclear. Cost should be absorbed by another sea duck or sea otter project or possibly as part of a combined clam/mussel/oyster project.
2	95057	Movement of Larval and Juvenile Fishes within PWS	Norcross, UAF	NOAA	PWS	NEW	\$300.0	Further clarification of the specific restoration objectives of this project needed. Further consideration needed in the context of other forage fish projects as well as relationship to 95320T (juvenile herring growth). Appears to be dependent upon certain oceanography portions of Project 95320 (PWS System Investigation). Clarification of sampling scale and design needed.

DRAFT Updated - 8/1/94

Research Category: Other

ORAFT

P	roject No.	Title	Proposer	Lead Agency	Loc.	Proj. Type	Cost FY 95	Notes
29	5320D	PWS Pink Salmon Genetics	ADFG	ADFG	PWS	Cont'd	\$218.2	Peer reviewer felt more information is needed to fully evaluate the study design. Technical aspects needs further examination.

Total FY 95 Request:	\$2,972.2
Number of Projects:	12

DRAFT Updated - 8/1/94

Page 3

Departn of the Interior OFFICE OF THE SECRETARY Office of Environmental Policy and Compliance - Alaska

NOTE

July 26, 1994

TO: Vern McCorkle (fax: 279-2900)

FROM: Doug Mutter

SUBJECT: Public Advisory Group (PAG) Budget Information

As requested, here is some information to help you and Mary McBurney with the PAG budget. Let me know if I can be of further assistance.

Currently proposed PAG budget for FY 1995:

	Per me	eting:	travel/per diem printing/copying postage/courier transcription services advertising	\$	10,000 800 250 2,500 1,500		
			ADA compliance	-	200		
			total:	\$	15,250		
Fou	PAG meet	ings:				\$	61,000
Staff	support:	ADF&	G (1.0 FTE)				46,100
	••	DOI (0).1 FTE)				6,000
Gene	eral & admi	inistrativ	e:				9,300
Tota	1:					\$	122,400
Proposed ad	ditions:						
Fou	two-day P	AG mee	tings:				lditional
Drin	ks/snacks a	nd work	ing lunch (@ \$400/mtg x	\$	1,600		
Two	Two one or two-day PAG community-based meetings/field visits:						37,300
	@ \$18 Anchor diem @ people from a	,650 eacl rage to C 3 \$ 4,600 to Anche bove)	n: (e.g., \$9,200 added for Cordova: travel @ \$4,500, 0, room cost @ \$100; plu orage @ \$4,200; plus oth	r 20 people , two nights is travel for er per meet	s per 9 ing costs		
Staf	Staff support/supplies		r synopses/regular communication:				lditional
Tota	1:					\$	38,900

Discussion paper for improving PAG meetings

I. MEETINGS

A) change meeting format to provide more meeting time

- 1) start meetings at 8:30 a.m.
- 2) provide refreshments and sack lunches to allow PAG to work through the lunch hour and reduce time spent on breaks
- 3) streamline public input (two suggestions)
 - a) require public to submit written comments to the PAG which would be incorporated into the PAG meeting packet. Members who would like to ask questions or have a presentation may request that specific people or topics be added to the agenda.
 - b) move the public comment period to the end of the first day PAG agenda to allow public input before second-day deliberation.

B) schedule six regular PAG meetings per year

- 1) Four quarterly meetings in Anchorage
 - a) two-day duration
 - i) first day workshop to review agenda items, hear reports from staff, ask questions (take public comment)
 - ii) second day for formal deliberation and decision-making
- 2) Meetings in spill-affected communities (two suggestions)
 - a) one-day duration/two meetings per year
 - i) send PAG chair and/or designee with a staff person to set up meeting and make local contacts.
 - b) two-day meeting/one meeting per year
 - i) conduct public meeting including updates on research of local interest
 - ii) second day field trip to visit project sites.

II. STAFF

A) prepare materials for PAG members

1) provide synopsis of Trustee Council meetings

CERTIF	ICATE OF RECIET RATION	FORM TX UNITED STATES COPYRIGHT OFFICE				
STATES QUINN # 1	This Certificate issued under the seal of the Copy Office in accordance with title 17, United States Code, attests that registration has been made for the work identi- fied below. The information on this certificate has been made a part of the Copyright Office records.	REGISTRATION NUMBER				
THE STATE		EFFECTIVE DATE OF REGISTRATION				
LIBR	ON CR	APR 2 7 1992				
AP.	REGISTER OF COPYRIGHTS	Month Day yes				
OFFIC	United States of America					
	DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE	CONTINUATION SHEET.				
nella nella	TITLE OF THIS WORK ▼					
	Millennium (see) page #	10				
	PREVIOUS-OR ALTERNATIVE THEES V	ion 1. Inherent Rights				
	PUBLICATION AS A CONTRIBUTION If this work was published as a contribution to a	Ka's Constitution				
	collective work in which the contribution appeared. Title of Collective Work ▼	eriodical, senal, or collection, give information about the				
	If published in a penodical or senal give: Volume V Number V	lasue Date ▼ On Pages ▼				
1 N N	NAME OF AUTHOR V	DATES OF BIRTH AND DEATH Year Born V Year Died V				
	Charles Edison McKee	9-8-53				
	Was this contribution to the work a AUTHOR'S NATIONALITY OR DOMICILE	WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK				
	Cilizen of >	- Anonymous? I Tes No of these ourselors is - Pseudonymous? I Yes No No Ne. See Ortavied				
Under me taw, the "suthor" of a	NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in t ENTIRE TEXT*	which copyright is claimed.				
"work made for hum" is conservable ing	NAME OF AUTHOR V	DATES OF BIRTH AND DEATH Year Born V Year Died V				
u r	harles Edison McKee	0_8_53				
- 1 1	(as the contribution to the work a AUTHOR'S NATIONALITY OR DOMICILE	WAS THIS AUTHOR'S CONTRIBUTION TO				
•] Yes "work made for hire"? Hand & country	Anonymous? I Yes No differe questions is				
·	O No Chil Dominked in ► <u>Anchorage</u> . AX	Pseudonymous? Yes No nstructions				
	ATOKE OF AUTHORSHIP Briefly describe nature of the material created by this author in t	which copyright is claimed.				
	S IAME OF AUTHOR V	DATES OF BIRTH AND DEATH				
	S ^W Charlos Edicon Novee					
0	* Vas thus contribution to the work a AUTHOR'S NATIONALITY OR DOMICILE	WAS THIS AUTHOR'S CONTRIBUTION TO				
	□ Yes "work made for hire"? Name of Country U.S.A.	THE WORK If the answer to either Anonymous? Yes No of these duesbook is				
7	Domiciled in Anchorage, AK	- Pseudonymous? Yes No enstructions				
	NATURE OF AUTHORSHIP Briefly describe nature of the material created by this author in v	which copyright is claimed. V				
and		LICATION OF THIS PAPTICIA & WORK				
	WORK WAS COMPLETED This Information Complete this Information Month L					
and a state of the	1991* A Year In all cases. has been published.					
State State	COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2.V	APPLICATION FEELINED NOV. 30. 1992				
Angle	Charles Edison McKee	SONE DEPOSIT BECEWED				
See instructions	7800 DeBarr Rd. E #63					
Defore completing Bis space.	Апспотаде, АК 99508	APR. 27.1992				
	TRANSFER If the claimant(s) named here in space 4 are different from the author(s) named in space 2 give a brief statement of how the claimant(s) obtained ownership of the copyright.	PE REMITTANCE NUMBER AND DATE				
And the Party Party	WE HAR THE A LE ARE AND MANUAL THE AREA A LEADER AND AND A LEADER AND	Nananana al'ana disana anana sinda dan nana di Nilan dina di Silan 🖓 👘				

"L'NOT WRAT AS

,

To: The & son Valdey Oil Spill Thustee Council Public admissing Group From: Charles E. MELee Proj # 95047 Fam concerned about gannishment of the project TXU 545 416, the Tehnical restoration of this country but my "primary concern is the nestonation of the ecosystem - but you don't have the money / lawful money you do have 38% categorized merit with the I. R. S. in care of the Fedard Reserve Corp.

Charles &. M= Lee 8, 3, 94

Charles E. MEKee P.O. BOX 143452 anch, ak UNITED STATES DISTRICT 99514 COURT FOR THE STATE OF ALASKA IN THE AT ANCHORAGE Charles E. McKee-ot-al., PEOPLE-JUL 20 1994 KING, CLASS SUITE TEST SUIT (QUASI-Plaintiffs. CRIMINAL), VS. UNITED STATES DISTRICT COURT STATE OF ALASKA, EXECUTIVE BRANCH **DISTRICT OF ALASKA** Bv LEGISLATIVE BRANCH, JUDICIAL Deputy BRANCH, STATE DEPARTMENT(S), BOARDS AND COMMISSIONS, et al., -1-TO.100. J. Charles & MS Xce. CASE NO. <u>A 94-151</u> cir **Defendants** marko JUDGMENT FOR -COST-OF on prov COMPENSATION IN ORDER BEHALF OF PLAINTIFF IT IS ORDERED that THE STATE OF ALASKA Judgment U.S. C. 18550 is entered with Decree in behalf of Plaintiffs) cer compensation allowed on nea 20: sade 278 Jan. 31. 1879 bes: j Jus as Labels, Book 18; page 79, June 18, 1875 u of copyright are paten Len. acy o influence: partes R.S. 1980, 1981 (see above Judge/Clerk Effective Date (at least 10 days after date of Notice) Type or Print Name Charles & MELee Honorable Judge Greene c.c.: Alaska Superior Court 4FA-82-2208 Civil 2-20.199C Weiss v. State of Alaska I certify that on, a copy of this judgment was sent to: Lections Unit, 1031) W 4th Ave. Suite 200, Anchorage, AK 99501. Phone: 269-5205 Department of Law Clerk JUL 20 1994 Office of the Attorney General Anchorage Branch Anchorage, Alaska