13.08.01 – Reading File

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April 1998





April 30, 1998

Altana Olsen POB 893 Cordova, Alaska 99574

Dear Ms. Olsen:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations



Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 30, 1998

Mike Boskofsky POB 33 Ouzinkie, Alaska 99644

Dear Mr. Boskofsky:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Sincerrely,

Eric F. Myers Director of Operations

 Federal Trustees
 State Trustees

 U.S. Department of the Interior
 Alaska Department of Fish and Game

 U.S. Department of Agriculture
 Alaska Department of Environmental Conservation

 National Oceanic and Atmospheric Administration
 Alaska Department of Law

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April 30, 1998

Joe Llanos POB 11 Ouzinkie, Alaska 99644

Dear Mr. Llanos:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Sincerrely,

Eric F. Myers Director of Operations

 Federal Trustees
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 U.S. Department of the Interior
 Alaska Department of Fish and Game

 U.S. Department of Agriculture
 Alaska Department of Environmental Conservation

 National Oceanic and Atmospheric Administration
 Alaska Department of Law





April 30, 1998

Kenneth Anderson
 POB 81
 Ouzinkie, AK 99644

Dear Mr. Anderson:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Darren K. Muller, Sr. POB 85 Ouzinkie, AK 99644

Dear Mr. Muller:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

James Skonberg, Sr. POB 70 Ouzinkie, AK 99644

Dear Mr. Skonberg:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Tom Quick POB 110 Ouzinkie, AK 99644

Dear Mr. Quick:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

John Lisowsky POB 21434 Juneau, Alaska 99802

Dear Mr. Lisowsky:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Robert J. Kopchak POB 1126 Cordova, Alaska 99574

Dear Mr. Kopchak:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations



Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 30, 1998

Cheri A. Shaw POB 2319 Cordova, Alaska 99574

Dear Ms. Shaw:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric É. Myers Director of Operations





April 30, 1998

Maxwell Blair POB 1332 Cordova, Alaska 99574

Dear Mr. Blair:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Ray Srb POB 1069 Cordova, Alaska 99574

Dear Mr. Srb:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Brian Lettich POB 1110 Cordova, Alaska 99574

Dear Mr. Lettich:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric P. Myers Director of Operations





April 30, 1998

Tom Church POB 406 Cordova, Alaska 99574

Dear Mr. Church:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Hollie Fee POB 2552 Cordova, Alaska 99574

Dear Ms. Fee:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Sarah Ecolano POB 341 Cordova, Alaska 99574

Dear Ms. Ecolano:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Christine Herndon POB 923 Cordova, Alaska 99574

Dear Ms. Herndon:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



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April 30, 1998

Travis Yarbrough POB 804 Cordova, Alaska 99574

Dear Mr. Yarbrough:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Kristin Smith POB 1252 Cordova, Alaska 99574

Dear Ms. Smith:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Emily Becker POB 174 Cordova, Alaska 99574

Dear Ms. Becker:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





April 30, 1998

Emily Becker POB 174 Cordova, Alaska 99574

Dear Ms. Becker:

This to confirm that your name has been added to the *Exxon Valdez* Oil Spill Trustee Council mailing list to receive future issues of the *Restoration Update* newsletter and *Annual Status Report*.

Thank you for your interest. Please contact our office if you have any questions.

Eric F. Myers Director of Operations





MEMORANDUM

To:	Ted Cooney, Leslie Holland-Bartels, and David Duffy Ecosystem Project Leaders			
From:	Stan Senner, Science Coordinator 5 for Server			

Subject: 10th Anniversary Presentations

Date: April 28, 1998

Although the May 15 deadline for abstracts for the March 1999 symposium on the 10th anniversary of the oil spill is fast approaching, I have been reluctant to contact you while you are in the throes of preparing reports and DPDs for your projects. I have talked informally with at least two of you (Ted and Dave), but it now is timely to circulate something on paper.

My basic idea is to give each of the three ecosystem projects (SEA, NVP, and APEX) a block of time--up to one-half day--for a series of presentations on what has been accomplished and learned. For example, a morning session from 8:30 am to 12 noon with a half hour for a coffee break would allow 3 h for presentations (e.g., 9 presentations of 20 min each). Of course, if there is no need for this amount of time, we will make other plans (i.e., don't ask for time that you don't need or want!).

The detailed content is largely up to you and the project PIs. My basic idea is that there should be some combination of overview or summary information and more detailed presentations on different aspects of the projects. These could be organized by species, by hypothesis or question, or by some wholly different way. I discourage a long series of talks simply covering each project component; this could get pretty dull. Rather, I encourage creative use of the time to tell an exciting story that integrates and synthesizes what your projects have accomplished and learned. If some of your PIs want to present additional material (either orally or on posters), they are free to submit additional abstracts for consideration by the scientific program committee.

If the above is okay, I encourage you to get the necessary abstracts submitted by May 15, if at all possible. There will be some opportunity to update abstracts later, before they actually are sent to be printed, but it is really important that we get something in soon so that we know what we have to work with and what is missing.

Federal Trustees State Trustees

U.S. Department of the Interior U.S. Department of Agriculture National Oceanic and Atmospheric Administration National Oceanic and Atmospheric Administration Page 2 10th Anniversary April 28, 1998

Details about submission of abstracts are covered in the Call for Abstracts that has been circulated widely. If you cannot locate yours or have other questions or suggestions, please give me a call or send me an e-mail. Thank you.

SS/kh

cc:

Bruce Wright Lisa Thomas Bill Hauser Catherine Berg Bob Spies

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. Exxon Valdez Oil Spill Trustee Council - 645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178 FAX COVER SHEET To: See list below Number: From: Atan Almen Date: 28 april 98 Total Pages: <u>3</u> Comments: 907-474-72 , Dollard Bartier 2710-6847 homas _____ > Anuser

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Document Sent By: Ken Dil

3/27/96

State Trustees Alaska Department of Fish and Game Alaska Department of Environmental Conservation Alaska Department of Law





MEMORANDUM

- TO: Jim Fall Regional Program Manager and Project Pl Subsistence Division / ADFG
- FROM: Molly McCammon Executive Director
- RE: Report Requirements: Project /244 Community-Based Harbor Seal Management and Biological Sampling
- DATE: April 28, 1998

After discussions with Sandra Schubert and Stan Senner of my staff regarding the remaining report requirements for Project /244, Community-Based Harbor Seal Management and Biological Sampling, I propose the following:

1. I am almost certain the Trustee Council will approve additional funding for the harbor seal biosampling program in FY 99, and they may approve funding for the related components of Project 99245 as well. However, I will recommend to the Council that any funding for Project 99245 be contingent on submittal of the final report for Project /244. I know you are planning to submit your report September 30, 1998, but I would encourage you to submit it no later than July 27, 1998 if at all possible in order to allow time for its quick review prior to Trustee Council action on the FY 99 Work Plan (which is tentatively scheduled for August 6). I realize that by submitting the report in July, activities undertaken during the last quarter of FY 98 will not be included, but I do not expect this to hinder reviewer evaluation of the project. If the final report is not submitted until September, there could be a gap in funding the ongoing biosampling program.

Your DPD for FY 99 contains a nice summary of the biosample collection effort (Objectives #1 and #2). I would ask that the final report also thoroughly address Objectives #4 (development of recommendations for subsistence users of harbor seals) and #5 (evaluation of the project's effectiveness and development of a long-term funding plan for the Alaska Native Harbor Seal Commission (ANHSC) and the biological sampling program). I am particularly interested in what other funding sources are contributing to the operation of the ANHSC and what efforts the ANHSC has made to obtain additional non-Trustee Council funds. I will likely

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recommend to the Council that they approve an annually declining amount of funds for Project 99245 (through FY 02) during what I would consider to be a transition period to other funding sources. Dr. Spies' review memo on the biosampling program (December 1,1997) stressed that "the participating agencies and organizations should actively plan for a transition from EVOS funds, so this valuable program does not suddenly reach a funding crisis that jeopardizes its long-term viability."

2. Within the next few weeks, please provide me a memo describing how you are responding to Dr. Spies' recommendation (December 1, 1997 memo) that "someone with computer database skills review the current approach to data management and sharing and help set up a simple but effective system to handle a growing database". You will probably want to address the database question in the final report, also.

In addition, Dr. Mike Castellini and others at the Alaska SeaLife Center have expressed interest in maintaining a computer database that tracks locations of archived samples taken from Stellar sea lions. It has been suggested that it may be possible for a collaboration between the Alaska Native Harbor Seal Commission and the Alaska SeaLife Center to do the same for harbor seal samples. I strongly encourage you to follow up with the Alaska SeaLife Center in regard to this possibility and to include the result in your memo back to me.

Please give me a call if you would like to discuss this memo. Otherwise, I will look forward to receiving your draft final report on Project /244 on or before July 27, 1998.

Thank you.

cc: Monica Reidel, Alaska Native Harbor Seal Commission

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

TO: **Trustee Council**

THROUGH: Molly Macammon Executive Director Iraci Cramer FROM:

Administrative Officer

DATE: April 23, 1998

RE: Financial Report as of March 31, 1998

Attached is the Statement of Revenue, Disbursements and Fees, and accompanying notes for the Exxon Valdez Joint Trust Fund for the period ending March 31, 1998.

The following is a summary of the information incorporated in the notes and contained on the statement.

Liquidity Account Balance		\$53,056,732	
Plus:	Current Year Adjustments (Note 5)	44,500,000	
Plus:	Other Adjustments (Note 6)	<u>2,351,867</u>	
Ur	ncommitted Fund Balance		\$99,908,599
Plus:	Future Exxon Payments (Note 1)	\$210,000,000	
Less:	Remaining Reimbursements (Note 3)	10,000,000	
Less:	Remaining Commitments (Note 7)	<u>40,305,734</u>	
Тс	otal Estimated Funds Available		\$259,602,865
Restor	ation Reserve (Note 8)		\$65.510.429

If you have any questions regarding the information provided please do not hesitate to give me a call at 586-7238.

Attachments

Agency Liaisons CC: **Bob Baldauf**

Federal Trustees **State Trustees** U.S. Department of the Interior U.S. Department of Agriculture Alaska Department of Environmental Conservation National Oceanic and Atmospheric Administration

Alaska Department of Fish and Game Alaska Department of Law

NOTES TO THE STATEMENT OF REVENUE, DISBURSEMENTS AND FEES FOR THE EXXON VALDEZ JOINT TRUST FUND As of March 31, 1998

1. Contributions - Pursuant to the agreement Exxon is to pay a total of \$900,000,000.

Received to Date	\$620,000,000
Current Year	\$70,000,000
Future Payments	\$210,000,000

- Interest Income In accordance with the MOA, the funds are deposited in the United States District Court, Court Registry Investment System (CRIS). All deposits with CRIS are maintained in United States government treasury securities with maturities of 100 days or less. Total earned since the last report is \$186,698.
- 3. Reimbursement of Past Costs Under the terms of the agreement, the United States and the State are reimbursed for expenses associated with the spill. The remaining reimbursements represent that amount due the State of Alaska.
- 4. Fees CRIS charges a fee of 7.5% for cash management services. Total paid since the last report is \$14,002.
- 5. Current Year Adjustments Includes the current year payment (less reimbursements), the transfer of \$12,000,000 into the Restoration Reserve and the following land payments.

<u>Seller</u>	Amount	Due
Shuyak	\$4,000,000	October 1998
Koniag, Incorporated	\$4,500,000	September 1998

6. Other Adjustments - Under terms of the Agreement, both interest earned on previous disbursements and prior years unobligated funding or lapse are deducted from future court requests. Unreported interest and lapse is summarized below.

	Interest	Lapse
United States	\$168,472	\$1,228,170
State of Alaska	\$892,751	\$62,474

7. Remaining Commitments - Includes the following land payments.

Seller	<u>Amount</u>	Due
Shuyak	\$12,000,000	October 1999 through 2001
Shuyak	\$11,805,734	October 2002
Koniag, Incorporated	\$16,500,000	September 2002

8. Restoration Reserve – Pursuant to Trustee Council action, the amount reported includes funds previously transferred, plus accrued interest less fees (\$53,160,429). Also included is the \$12,000,000 transfer approved for Fiscal Year 1998, plus \$350,000 in interest accrued since September 15, 1997, although the 1998 payment has not been formally transferred from the Liquidity Account to the Restoration Reserve.



STATEMENT OF REVENUE, DISBURSEMENT, AND FEES EXXON VALDEZ OIL SPILL JOINT TRUST FUND As of March 31, 1998

· ·	EXXON VALDEA	2 OIL SPILL JOINT s of March 31, 1998	IRUST FUND		
				To Date	Cumulativ
	1995	1996	1997	1998	Total
Contributions: (Note 1)	70.000.000	70 000 000	70.000.000		
Less: Credit to Exxon Corporation clean-up costs incurred	70,000,000	70,000,000	70,000,000	U	620,000,0 (39,913,6
Total Contributions	70,000,000	70,000,000	70,000,000	0	580,086,3
Interest Income: (Note 2)					
Exxon Corporation escrow account					831,2
Joint Trust Fund Account	5,706,667	3,963,073	2,971,070	1,436,679	19,787,4
Total Interest	5,706,667	3,963,073	2,971,070	1,436,679	20,618,7
Total Revenue	75,706,667	73,963,073	72,971,070	1,436,679	600,705,0
DISBURSEMENTS:					
Reimbursement of Past Costs: (Note 3)					
State of Alaska		3,291,446	5,000,000	0	91,559,2
United States	2,697,000	0	0	0	69,812,0
Total Reimbursements	2,697,000	3,291,446	5,000,000	0	161,371,3
Disbursements from Liquidity Account:					
State of Alaska	41,969,669	43,340,950	17,846,130	1,639,900	174,431,2
United States	48,019,928	31,047,824	60,101,802	909,500	161,513,8
Transfer to the Restoration Reserve Total Disbursements	89.989.597	<u>35,996,231</u> 110,385,004	<u>12,449,552</u> 90,397,484	2.549.400	48,445,7
FEES:	500 057		054 004		4 000
U.S. Court Fees (Note 4)	586,857	396,307	254,221	107,751	1,886,1
Total Disbursements and Fees	93,273,454	114,072,758	95,651,705	2,657,151	547,648,
Increase (decrease) in Liquidity Account	(17,566,788)	(40,109,685)	(22,680,635)	(1,220,472)	53,056,7
Liquidity Account Balance,	134,634,311	117,067,523	76,957,839	54,277,204	
beginning balance Liquidity Account Balance,	117,067,523	76,957,839	54,277,204	53.056.732	
end of period		, ,			
Current Year Adjustments: (Note 5)					44,500,0
Other Adjustments: (Note 6)					2,351,8
Uncommitted Liquidity Account Balance					99,908,
Future Exxon Payments (Note 1)					210,000,0
Remaining Reimbursements (Note 3)					(10,000,0
emaining Commitments: (Note 7)					(40,305,
Total Estimated Funds Available					259,602,
Restoration Reserve					CE 540

Statement 1

Statement of *Exxon Valdez* Settlement Funds As of March 31, 1998

Beginning Balance of Settlement	900,000,000
Receipts:	
Interest Earned on Exxon Escrow Account	337,111
Net Interest Earned on Joint Trust Fund (Note 1)	17,901,353
Interest Earned on United States and State of Alaska Accounts	6,381,135
Total Interest	24,619,598
Disbursements:	
Reimbursements to United States and State of Alaska	161,371,333
Exxon clean up cost deduction	39,913,688
Joint Trust Fund deposits	419,546,212
Total Disbursements	620,831,233
Funds Available:	
Exxon Future Payments	210,000,000
Current Year Payment	70,000,000
Balance in Liquidity Account	53,056,732
Future acquisition payments (Note 2)	(48,805,734)
Alaska Sealife Center	0
Remaining Reimbursements	(15,000,000)
Other (Note 3)	2,351,867
Total Estimated Funds Available	271,602,865
Restoration Reserve	65,510,429

Note 1: Gross interest earned less District Court registry fees.

Note 2: Includes both current year and future year payments

Note 3: Adjustment for unreported interest earned and lapse

Footnote:

Included in the Total Estimated Funds Available is the \$12,000,000 payment to the Restoration Reserve for Fiscal Year 1998.

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Statement 2

Cash Flow Statement Exxon Valdez Liquidity Account As of March 31, 1998

Receipts:		
Exxon payments		
December 1991	36,837,111	
December 1992	56,586,312	
September 1993	68,382,835	
September 1994	58,728,400	
September 1995	67,303,000	
September 1996	66,708,554	
September 1997	65,000,000	
Total Deposits	419,546,212	419,546,212
Interest Earned	19,787,489	
Total Interest	19,787,489	19,787,489
Total Receipts		430 333 701
Disbursements:		
Court Requests		
Fiscal Year 1992	12,879,700	
Fiscal Year 1993	27,634,994	
Fiscal Year 1994	50,554,653	
Fiscal Year 1995	89,989,597	
Fiscal Year 1996	74,388,774	
Fiscal Year 1997	77,947,932	
Fiscal Year 1998	2,549,400	
Total Requests	335,945,050	335,945,050
	1.000 (00	(000 100
District Court Fees	1,886,136	1,886,136
Transfer to the Restoration Reserve		48,445,783
Total Disbursements		386,276,969
Balance in Joint Trust Fund		53 056 732
Dalance in Joint Hust Fund		

Footnote:

A total of \$48,445,783 has been disbursed from the Liquidity Account to the Restoration Reserve. Of the total, \$48,445,663 was used to purchase laddered securities. The remaining \$130 represents costs paid to the Federal Reserve Bank.

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Disbursements:	December 91	December 92	September 93	September 94	September 95	September 96	September 97	Total
Reimbursements:								
United States								
FFY92	24,726,280	0	0					24,726,280
FFY93	0	24,500,000	11,617,165					36,117,165
FFY94	0	0	0	6,271,600				6,271,600
FFY95	0	0	0		2,697,000			2,697,000
Total United States	24,726,280	24,500,000	11,617,165	6,271,600	2,697,000	0	0	69,812,045
State of Alaska								
General Fund:								
FFY92	25,313,756	0	0					25,313,756
FFY93	0	16,685,133	0					16,685,133
FFY94	0	0	14,762,703					14,762,703
FFY95	0	0	0	0				0
Mitigation Account:								
FFY92	3,954,086	0	0					3,954,086
FFY93	0	12,314,867	0					12,314,867
FFY94	0	0	5,237,297	5,000,000				10,237,297
FFY95 (Prevention Account)	0	0	0		0			0
FFY96 (Prevention Account)						3,291,446		3,291,446
FFY97 (Prevention Account)							5,000,000	5,000,000
Total State of Alaska	29,267,842	29,000,000	20,000,000	5,000,000	0	3,291,446	5,000,000	91,559,288
Total Reimbursements	53,994,122	53,500,000	31,617,165	11,271,600	2,697,000	3,291,446	5,000,000	161,371,333

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FFY92 FFY93 FFY94 FFY95 FFY96 FFY97	36,837,111 0 0 0	0 56,586,312 0 0	0 68,382,835 0 0	58,728,400	67,303,000	66,708,554	65,000,000	36,837,111 124,969,147 0 126,031,400 66,708,554 65,000,000
Total Deposits to Joint Trust Fund	36,837,111	56,586,312	68,382,835	58,728,400	67,303,000	66,708,554	65,000,000	419,546,212
Exxon clean up cost deduction	0	39,913,688	0	0	0	0	0	39,913,688
Total Payments	90,831,233	150,000,000	100,000,000	70,000,000	70,000,000	70,000,000	70,000,000	620,831,233

Remaining Exxon payments to be made:

September 1998	70,000,000
September 1999	70,000,000
September 2000	70,000,000
September 2001	70,000,000
	280,000,000

The December 1991 payment includes interest accrued on the escrow account. The actual disbursements without interest was \$24.5 million to the United States, \$29 million to the State of Alaska and \$36.5 million to the Joint Trust Fund. The total interest earned on the escrow account was \$831,233 which was disbursed proportionately. This included \$226,280 to the United States, \$267,842 to the State of Alaska and \$337,111 to the Joint Trust Fund.

The September 1994 reimbursement to the United States included an over-payment of \$80,700 to NOAA. This over-payment is a direct result of final costs for damage assessment activities being lower than what was previously estimated. The funds were returned to the Joint Account by reducing the amount transferred to the United States in Court Request number 15.
Schedule of Disbursements Exxon Valdez Liquidity Account As of March 31, 1998

• • • ,	Schedule of Dist <i>Exxon Valdez</i> Liqu As of March			sements y Account 1998		
		United States	State of Alaska	Court Request Total	Court Fees	Disbursements Total
	Court Request 1	6,320,500	6,559,200	12,879,700		
	Total Fiscal Year 1992	6,320,500	6,559,200	12,879,700	23,000	12,902,700
	Court Request 2	3.074.029	3,493,225	6.567.254		
	Court Request 3	6,031,852	15,035,888	21,067,740		
	Total Fiscal Year 1993	9,105,881	18,529,113	27,634,994	154,000	27,788,994
	Court Request 4		29.950.000	29.950.000		
	Court Request 5	2.516.069	2.227.856	4,743,925		
	Court Request 6	1,407,818	12,211,164	13,618,982		
	Court Request 7	2,084,500	157,246	2,241,746		
	Total Fiscal Year 1994	6,008,387	44,546,266	50,554,653	364,000	50,918,653
	Court Portugat 9	2 576 170	7 099 077	10 664 256		
	Court Request 8	3,576,179	7,088,077	10,004,200		
	Court Request 9	2000480	3,111,204	3,111,204		
	Court Request 10	3226182	9,234,909	12,461,091		
	Court Request 11	1,450,000		1,450,000		
	Court Request 12	17,200,000		17,200,000		
	Court Request 13	1,480,251	171,763	1,652,014		
	Court Request 14	15,250,000		15,250,000		
	Court Request 15	5,837,316	9,863,716	15,701,032		
	Court Request 16		12,500,000	12,500,000		
	Total Fiscal Year 1995	48,019,928	41,969,669	89,989,597	586,857	90,576,454
	Court Request 17		3,294,667	3,294,667		
	Court Request 18	8,000,000		8,000,000		
	Court Request 19	3,222,224	1,968,898	5,191,122		
	Restoration Reserve Transfer		. ,	35,996,231		
	Court Request 20		8,000,000	8,000,000		
	Court Request 21	1.007.000	5,520,500	6.527.500		
	Court Request 22	18,818,600	24,556,885	43,375,485		
	Total Fiscal Year 1996	31,047,824	43,340,950	110,385,004	396,307	110,781,312
		0.640.500	0	0.040.500		
	Court Request 23	2,613,500	0	2,613,500		
	Court Request 24	176,500	3,075,625	3,252,125		
	Court Request 25	785,859	442,833	1,228,692		
	Court Request 26	24,154,000	530,000	24,684,000		
	Court Request 27	324,700	1,470,900	1,795,600		
	Restoration Reserve Transfer		0 007 000	12,449,552		
	Court Request 28	0	2,627,000	2,627,000		
	Court Request 29	5,919,169	5,699,772	11,618,941		
		20,120,074	4,000,000	30,120,074		
	Total Fiscal Year 1997	60,101,802	17,846,130	90,397,484	254,221	90,651,705
	Court Request 31	445,200	643,800	1,089,000		
	Court Request 32	464,300	996,100	1,460,400		
	Court Request 33			0		
	Court Request 34			0		
-	Restoration Reserve Transfer			0		
	Total Fiscal Year 1998	909,500	1,639,900	2,549,400	107,751	2,657,151
	Total	161 513 822	174 431 228	384 390 833	1 886 136	386 276 969
			11777013440		.,000,100	000,210,000

Support Documents JTF Dis

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		Ex	xon Valdez	Liquidity A	ccount			
		Interest	Earned/Dist	rict Court R	egistry Fees			
			As of Ma	arch 31, 199	8			
	FFY 1992	FFY 1993	FFY 1994	FFY 1995	FFY 1996	FFY 1997	FFY 1998	Total
Earnings Deposits	17,683	31,124	33,476	55,809		1111007	1111000	138,092
								0
Earnings Allocated:								0
1991	28,704							28,704
1992	526,613	553,697					_	1,080,309
1993		639,180	1,461,736					2,100,915
1994			1,876,788	1,402,938				3,279,726
1995				3,661,063	1,202,209			4,863,272
1996					2,364,556	810,894		3,175,451
1997	-					1,905,955	653,461	2,559,416
1998							675,467	675,467
Total	555,317	1,192,876	3,338,524	5,064,001	3,566,766	2,716,849	1,328,928	17,763,261
Total Earnings	573,000	1,224,000	3,372,000	5,119,809	3,566,766	2,716,849	1,328,928	17,901,353
egistry Fees:								
991	3,189							3,189
1992	19,811	100,223	-					120,034
1993	-	53,777	179,658					233,435
1994		,	184,342	180,072				364.414
1995				406.785	133.579			540,364
1996				-,	262.729	90.099		352.828
1997						164.121	52.983	217.105
1998					•		54,768	54,768
Total	23,000	154,000	364,000	586,857	396,307	254,221	107,751	1,886,136
Gross Earnings	596,000	1,378,000	3,736,000	5,706,667	3,963,073	2,971,070	1,436,679	19,787,48



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As of March 31, 1998						
	State of Alaska	United States				
	EVOSS Account	NRDA& R	Total			
June 1992	22,675		22,67			
July 1994	52,823		52,82			
August 1994	48,450		48,45			
September 1994	40,408	43,567	83,97			
October 1994	44,291		44,29			
November 1994	63,286		63,28			
December 1994	67,496	3,849	71,34			
January 1995	89,341		89,34			
February 1995	100,714		100,71			
March 1995	104,570	17,033	121,60			
April 1995	95,432		95,43			
May 1995	92,595		92,59			
June 1995	80.613	50.042	130.65			
July 1995	76.424		76.42			
August 1995	68.771	-	68.77			
September 1995	59.945	44 826	104.77			
October 1995	133 486		133.48			
November 1995	154 119	_	154 11			
December 1995	143 917	39 567	183 48			
January 1996	134 300	00,001	134 30			
February 1996	122 348		122 34			
March 1996	132 469	64 381	196.85			
April 1996	126 550	07,001	126 55			
May 1996	136 732		136 73			
lune 1006	145 501	73 267	218 76			
July 1006	128 195	13,201	128.10			
August 1996	106.079	-	106.07			
September 1006	110,079	20.042	120.02			
October 1996	10,090	23,042	108,80			
November 1990	101,000		101,09			
November 1996	152,000	71 002	102,00			
Jacuany 1007	147.024	11,093	220,00			
Sanuary 1997	147,934	-	147,93			
February 1997	120,137	24.074	125,13			
April 1007	131,437	24,3/4	100,03			
April 1997	122,111	+	122,11			
way 199/	00.914	260 522	114,95			
	33,011	308,523	400,33			
July 1997	221,900	-	221,90			
August 1997	30,898	20.000	30,89			
September 1997	109,090	38,289	197,98			
October 1997	119,190		119,19			
November 199/	49,120	100 100	49,12			
Jecember 1997	92,204	130,183	120.00			
January 1998	120,038		120,03			
repruary 1998	29,000	_	29,88			

NOTE: The \$117,178 NRDA&R interest figure is cummulative.

Total

5,241,097

Interest was earned for the period July 1992 through June 1994, but the specific amounts have been hidden to allow the spreadsheet to print on one page.

1,140,037

6,381,135



				Schedule of	Interest Adju	stments to the	ne Court Red	quests					
					As of M	arch 31, 1998	3						
	October	November	December	January	February	March	April	Мау	June	July	August	Total	Unallocated
United States													
FFY92												2	Baldauf 12/6/96
FFY93			39,871						3,648			43,519	
FFY94			51,231		_				22,427			73,658	
FFY95	34,621		37,618			3,849					63,226	139,314	
FFY96				48,676				37,100		26,600	109,666	222,042	
FFY97			29,041								463,989	493,030	
FFY98													
Total United States							····· · ·					971,565	168,472
State of Alaska													
FFY92												0	
FFY93			80,775						35,012			115,787	
FFY94			64,944						239,090			304,034	
FFY95	52,823	117,838	44,291			320,837					449,634	985,423	
FFY96				262,202				300		289,400	934,433	1,486,335	
FFY97		1		398,567		275,700					782,501	1,456,768	
FFY98													
Total State of Alask	(a											4,348,347	892,751
Total Adjustment												5,319,912	1,061,223
Footnote: The unallo	ocated interest	t is tied to the	INT Acct. she	et.									

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	December 1993	June 1994	August 1995	August 1996	August 1997	Total
Disbursements:						
Court Requests						
United States						0
FFY92						0
FF193 FFY94		3 106 555				3 106 555
FFY95		0,100,000				0,100,000
FFY96			220,858			220,858
FFY97				1,165,334	1,102,442	2,267,776
FFY98						
Total United States	0	3,106,555	220,858	1,165,334	1,102,442	5,595,189
State of Alaska						
FFY92						0
FFY93						0
FFY94	3,661,600					3,661,600
FFY95			0 070 050			0
FFY96			2,376,950	2 500 440	2 5 40 007	2,376,950
FF197 FFY98				2,500,446	3,349,927	6,050,375
11130						
Total State of Alaska	3,661,600	0	2,376,950	2,500,448	3,549,927	12,088,925
Total Adjustment	3,661,600	3,106,555	2,597,808	3,665,782	4,652,369	17,684,114

-

	Schedule of Work Plan Authonomous and Other Authorizations							
•	FFY 92	FFY 93	FFY 94	FFY 95	FFY 96	FFY 97	FFY 98	Total
Work Plan Authorizations United States:						<u>, , , , , , , , , , , , , , , , , , , </u>		
June 15, 1992	6,320,500	0	0					
January 25, 1993	0	3,113,900	0					
January 25, 1993	0	6,035,500	0					
November 10, 1993	0	0	0					
November 30, 1993	0	0	2,567,300					
June 1994			4,536,800					
June 1994			84,500					
July 1994			1,500,000					
Carry Forward Authorization				463,500				
August 1994				2,110,800				
November 1994				2,514,200				
December 1994				749,600				
March 1995				1,484,100				
August 1995				(36,700)	6,238,800			
December 1995					3,270,900			
January 1996					150,000			
April 1996					478,000			
May 1996				21,900	15,200			
June 1996					23,000			
August 1996						7,923,700		
December 1996						310,900		
February 1997						0		
May 1997						0		
August 1997						85,000	7,263,600	
December 1997						, .	445,200	
Total	6,320,500	9,149,400	8,688,600	7,307,400	10,175,900	8,319,600	7,708,800	57,670,200

	Schedule of Work Plan Authonizations and Other Authorizations							
-	FFY 92	FFY 93	FFY 94	FFY 95	FFY 96	FFY 97	FFY 98	Total
Work Plan Authorizations State of Alaska								
June 15, 1992	6,559,200	0	0					
January 25, 1993	0	3,574,000	0					
January 25, 1993	0	7,570,900	0					
November 30, 1993	0	0	4,454,400					
June 1994			12,391,700					
June 1994			215,800					
July 1994			0					
Carry Forward Authorization				576,300				
August 1994				7,140,900				
November 1994				9,098,700				
December 1994				180,500				
March 1995				492,600				
August 1995				36,700	12,653,600			
December 1995					2,231,100			
April 1996					500,000			
May 1996					300			
June 1996					0			
August 1996						11,606,300		
December 1996						310,400		
February 1997						275,700		
May 1997						0		
August 1997						(85,000)	9,393,200	
December 1997							643,800	
Total	6,559,200	11,144,900	17,061,900	17,525,700	15,385,000	12,107,400	10,037,000	89,821,100

•

	Schedule of Work Plan Authonome and Other Authorizations							
	FFY 92	FFY 93	FFY 94	FFY 95	FFY 96	FFY 97	FFY 98	Total
Other Authorizations							11100	
United States:								
Orca Narrows (6/94) Eyak Limited Conservation Easem Kodiak National Wildlife Refuge (3 Kodiak National Wildlife Refuge (3	ient /95, 9/95 AKI) /95, 9/95 Old	Harbor)	2,000,000	1,450,000 200,000 21,000,000 11,250,000	7,500,000	7,500,000		3,450,000 200,000 36,000,000 11,250,000
Koniag Small Parcels Chenega Land Acquisition Chenega-Area Oiling Reduction	.,	,			12,500,000 379,000 3,600	4,500,000 3,740,200 24,000,000 157,400	464,300 182,000	17,000,000 4,583,500 24,000,000 343,000
English Bay			2.000.000	33,900,000	20.382.600	14,128,074	646,300	14,128,074
			<u> </u>			, ,		
Kachemak Bay State Park (1/95) Alutiiq Repository (11/93) Seal Bay (11/93,11/94,11/95,11/96	5)	7,500,000 1,500,000	29.950.000	3.229.042	3.294.667	3.075.625		7,500,000 1,500,000 39,549,334
Shuyak (3/96, 10/96 - 10/02 Small Parcels Alaska SeaLife Center			,,	12,500,000	8,000,000 5,020,500 12,456,000	2,194,266 3,738,000	4,000,000 996,100	14,194,266 9,754,600 24,956,000
Chenega-Area Oiling Reduction Alaska SeaLife Center Fish Pass Alaska SeaLife Center Equipment					0	1,732,000 545,600 724,000		1,732,000 545,600 724,000
Total		9,000,000	29,950,000	15,729,042	28,771,167	1,167,900	4,996,100	1,167,900
Total Other Authorizations Total Work Plan Authorizations Restoration Reserve	0 12,879,700	9,000,000 20,294,300	31,950,000 25,750,500	49,629,042 24,833,100	49,153,767 25,560,900 35,996,231	67,203,065 20,427,000 12,449,552	5,642,400 17,745,800 0	212,578,274 147,491,300 48,445,783
Total Authorized	12,879,700	29,294,300	57,700,500	74,462,142	110,710,897	100,079,617	23,388,200	408,515,357

Footnotes:

Work Plan Authorization and Land/Capital Acquisitions only. Will not balance to the Schedule of Disbursements from the Joint Trust Fund or the court requests due to deductions for interest and lapse.

This schedule does tie to the quarterly reports with the exception of 93' and 92'. In FY93 the Work Plan represented the transition to the Federal Fiscal Year from the Oil Year or a seven month period. This schedule presents authorization on the Federal Fiscal Year and as such FFY92 and FFY93 does not balance.



FAX COVER SHEET

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		[15] 2698918		CAROL FRIES
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		[20] 7863350		C.BERG
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		[31] 19074655	070	BROWN-VITARI
		[35] 15103737	834	B.SPIES
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April 24, 1998

Bjorgvin Ingi + Hlynur Thor 6-X The Commercial College of Iceland Ofanletiti 1 IS-103 Reykjavik ICELAND

Dear Bjorgvin and Hlynur:

Thank you for requesting a copy of the *Exxon Valdez* Oil Spill Research & Restoration Project CD. Unfortunately, response to the offer was much greater than we had anticipated, and the supply is depleted. However, a copy of the CD may be obtained through your local library via inter-library loan. Ask your local librarian to contact Alaska Resources Library & Information Services (ARLIS):

ARLIS, 3150 C Street, Anchorage, Alaska 99503 Phone: 907-272-7547 Fax: 907-271-4742 E-mail: carrie_holba@ios.doi.gov

We are considering the possibility of producing additional copies of the CD, although a final determination has not yet been made. We will keep your name on file and mail you a copy if a new edition of the CD is produced.

Thank you again for your interest.

Keri Dile

Keri Hile Administrative Assistant



645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 24, 1998

1

Leonidas Koukoutsas Greek General Consulate 293 E Street South Boston, MA 02127

Dear Mr. Koukoutsas:

Thank you for requesting a copy of the *Exxon Valdez* Oil Spill Research & Restoration Project CD. Unfortunately, response to the offer was much greater than we had anticipated, and the supply is depleted. However, a copy of the CD may be obtained through your local library via inter-library loan. Ask your local librarian to contact Alaska Resources Library & Information Services (ARLIS):

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We are considering the possibility of producing additional copies of the CD, although a final determination has not yet been made. We will keep your name on file and mail you a copy if a new edition of the CD is produced.

Thank you again for your interest.

on die

Keri Hile Administrative Assistant



645 G Street, Suite 401, Anchorage, AK 99501-3451

907/278-8012 fax: 907/276-7178



April 24, 1998

Kim, Soo Tai 183-7. Nonhyun-dong Kangnam-ku, Seoul KOREA 135-010

Dear Soo Tai Kim:

Thank you for requesting a copy of the *Exxon Valdez* Oil Spill Research & Restoration Project CD. Unfortunately, response to the offer was much greater than we had anticipated, and the supply is depleted. However, a copy of the CD may be obtained through your local library via inter-library loan. Ask your local librarian to contact Alaska Resources Library & Information Services (ARLIS):

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We are considering the possibility of producing additional copies of the CD, although a final determination has not yet been made. We will keep your name on file and mail you a copy if a new edition of the CD is produced.

Thank you again for your interest.

Hile

Keri Hile Administrative Assistant



645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 24, 1998

Steve Dorobek Texas A & M University Dept of Geology & Geophysics College Station, TX 77843

Dear Mr. Dorobek:

Thank you for requesting a copy of the Exxon Valdez Oil Spill Research & Restoration Project CD. Unfortunately, response to the offer was much greater than we had anticipated, and the supply is depleted. However, a copy of the CD may be obtained through your local library via inter-library loan. Ask your local librarian to contact Alaska Resources Library & Information Services (ARLIS):

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Thank you again for your interest.

Keri Hiles

Keri Hile Administrative Assistant

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 24, 1998

Ms. Julie Michaelson, Data Manager Alaska Natural Heritage Program 707 A Street Anchorage, AK 99501

Dear Ms. Michaelson:

Thank you for requesting a copy of the *Exxon Valdez* Oil Spill Research & Restoration Project CD. Unfortunately, response to the offer was much greater than we had anticipated, and the supply is depleted. However, a copy of the CD may be obtained through your local library via inter-library loan. Ask your local librarian to contact Alaska Resources Library & Information Services (ARLIS):

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We are considering the possibility of producing additional copies of the CD, although a final determination has not yet been made. We will keep your name on file and mail you a copy if a new edition of the CD is produced.

Thank you again for your interest.

Sincerely,

i Niles

Keri Hile Administrative Assistant

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April 24, 1998

Mr. Wesley Pendarvis 1844 Duke of Norfolk Quay Virginia Beach, VA 23454

Dear Mr. Pendarvis:

Thank you for requesting a copy of the *Exxon Valdez* Oil Spill Research & Restoration Project CD. Unfortunately, response to the offer was much greater than we had anticipated, and the supply is depleted. However, a copy of the CD may be obtained through your local library via inter-library loan. Ask your local librarian to contact Alaska Resources Library & Information Services (ARLIS):

ARLIS, 3150 C Street, Anchorage, Alaska 99503 Phone: 907-272-7547 Fax: 907-271-4742 E-mail: carrie_holba@ios.doi.gov

We are considering the possibility of producing additional copies of the CD, although a final determination has not yet been made. We will keep your name on file and mail you a copy if a new edition of the CD is produced.

Thank you again for your interest.

, Hiles

Keri Hile Administrative Assistant



645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 24, 1998

Anthony Lindsey 1820 East Kings Hwy. #252 Shreveport, LA 71105

Dear Mr. Lindsey:

Thank you for requesting a copy of the *Exxon Valdez* Oil Spill Research & Restoration Project CD. Unfortunately, response to the offer was much greater than we had anticipated, and the supply is depleted. However, a copy of the CD may be obtained through your local library via inter-library loan. Ask your local librarian to contact Alaska Resources Library & Information Services (ARLIS):

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Thank you again for your interest.

Kon Hile

Keri Hile Administrative Assistant



645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 24, 1998

Chesni Dixon 6700 Donnell Court Bakersfield, CA 93309

Dear Ms. Dixon:

Thank you for requesting a copy of the *Exxon Valdez* Oil Spill Research & Restoration Project CD. Unfortunately, response to the offer was much greater than we had anticipated, and the supply is depleted. However, a copy of the CD may be obtained through your local library via inter-library loan. Ask your local librarian to contact Alaska Resources Library & Information Services (ARLIS):

ARLIS, 3150 C Street, Anchorage, Alaska 99503 Phone: 907-272-7547 Fax: 907-271-4742 E-mail: carrie_holba@ios.doi.gov

We are considering the possibility of producing additional copies of the CD, although a final determination has not yet been made. We will keep your name on file and mail you a copy if a new edition of the CD is produced.

Thank you again for your interest.

Sincerely,

ri Nile

Keri Hile Administrative Assistant



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 National Oceanic and Atmospheric Administration
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645 G Street, Suite 401, Anchorage, AK 99501-3451 90

1 907/278-8012 fax: 907/276-7178



April 24, 1998

Mr. Curt Clumpner P.O. Box 5574 Lynnwood, WA 98046

Dear Mr. Clumpner:

Thank you for requesting a copy of the *Exxon Valdez* Oil Spill Research & Restoration Project CD. Unfortunately, response to the offer was much greater than we had anticipated, and the supply is depleted. However, a copy of the CD may be obtained through your local library via inter-library loan. Ask your local librarian to contact Alaska Resources Library & Information Services (ARLIS):

ARLIS, 3150 C Street, Anchorage, Alaska 99503 Phone: 907-272-7547 Fax: 907-271-4742 E-mail: carrie_holba@ios.doi.gov

We are considering the possibility of producing additional copies of the CD, although a final determination has not yet been made. We will keep your name on file and mail you a copy if a new edition of the CD is produced.

Thank you again for your interest.

Sincerely,

Hile

Keri Hile Administrative Assistant



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645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



Dear Environmental Reporter,

The 10th anniversary of the *Exxon Valdez* oil spill will take place in March 1999. This letter has two purposes: 1) to remind you about this important anniversary and 2) to provide some practical advice if you wish to cover this event.

The *Exxon Valdez* spill was unprecedented in size and in injury to the environment. Every news report at the time concluded by saying questions about the spill's long-term impacts were unanswerable — only time would tell. Ten years later, many of those questions are now answerable.

A five-day symposium, "Legacy of an Oil Spill: 10 Years After the Exxon Valdez," will take place March 23-27, 1999 in Anchorage. This symposium will address questions about the long-term impact of the spill and reveal the results of 10 years and \$100 million of intensive research in the spill region. The first day will be geared toward the public with a general report on the condition of the spill region, current status of the species injured by the spill, and a contrast of oil spill prevention and response measures comparing 1989 to the present. The final four days will be more technical with reports on social, economic and scientific research. a de la compañía de l

For those wishing to show how the spill affected the people in Prince William Sound, the best time to be here is in the summer of 1998. A typical March in Prince William Sound is unpredictable weatherwise and unevenful when it comes to human activity in you want to take part in ongoing oil spill, research, fish with commercial fishermen, fish or gather with subsistence users, kayak along the 1,400 miles of newly protected shoreline, travel to stilloiled beaches, you will have more success during the summer months

Contacts:

For further information about the spill, recovery efforts, and 10th anniversary plans contact: Joe Hunt; EVOS Trustee Council; 907-278-8012; joeh@oilspill.state.ak.us

For further information about the spill prevention and response in Prince William Sound contact: Stan Jones; PWS Regional Citizens' Advisory Council; 907-264-6230; pim@pobox.alaska.net

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U.S. Department of Agriculture Ala	aska Department of Environmental Conservation
National Oceanic and Atmospheric Administration Ala	aska Department of Law

The 1989 oil spill resulted in Exxon paying the largest criminal and civil settlement in the history of environmental protection. The *Exxon Valdez* Oil Spill Trustee Council was created to oversee restoration using the money from the civil settlement.

A few questions:

- How is the record \$1 billion in settlements being spent?
- How are the marine mammals, seabirds, fish and intertidal organisms doing 10 years after the spill?
- What is being done to prevent another Exxon Valdez-type accident in Prince William Sound?

A few answers:

• More than 650,000 acres, including more than 1,400 miles of shoreline and 280 salmon streams, much of it threatened by development, is being purchased and set aside to protect habitat vital for restoration of injured species.

• A world of scientific knowledge once thought unachievable due to funding constraints is changing the way we view the north Gulf of Alaska.

• To prevent another accident, powerful tugboats now escort tankers through Prince William Sound with locally-trained ship's pilots in command of the tanker's wheelhouse.

Not all the news is good. Many species, including harbor seals and some seabirds, are declining precipitously while a local population of killer whales continues to suffer. A \$12 million a year herring fishery completely collapsed, leading to the cancellation of commercial fishing for four successive seasons. Though single hull tankers are being phased out, some will continue to sail Prince William Sound until 2015. (Up to 80 percent of the *Exxon Valdez* spill could have been avoided with double hulls.)

You can learn more about the recovery efforts in the 1998 Status Report (enclosed). It includes:

- an explanation of the civil and criminal settlements (Page1);
- a list of the most critically injured species and their recovery status (Page 13);
- a complete list of large parcels and prices for habitat protected (Page 20) and a map (Page 22);
- a 10-year budget plan showing how the \$900 million civil settlement was allocated (Page 28);
- full explanations of research/restoration and habitat protection programs.

A brochure on the Prince William Sound Regional Citizens' Advisory Council (a spill prevention and response watchdog group) is also enclosed.

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 22, 1998

Kevin Brooks Alaska Department of Fish and Game P.O. Box 25526 Juneau, Alaska 99811-5526

Dear Mr. Brooks:

As the designated ethics supervisor for the Alaska Department of Fish and Game, the purpose of this letter is to disclose the receipt of a gift as provided for by AS 39.52.130.

Please find enclosed a completed ethics disclosure form together with a copy of an invitation to attend the grand opening ceremonies for the Alaska SeaLife Center on May 1-2, 1998. I have been asked to attend this event as a guest. As you know, the Alaska SeaLife Center is a world class research facility that will be officially opened next month. The Trustee Council authorized funding for the project as a co-sponsor along with the City of Seward and the Alaska State Legislature. The ceremonies include a catered dinner hosted by the Center's Board of Governors on the evening of May 1st. Because of the remote logistics involved -- the dinner will be held inside the Center which lacks kitchen facilities -- the estimated cost of the dinner is \$80. (While there is also a boat tour of Resurrection Bay on May 2nd, with an estimated commercial value of \$60, I do not plan to participate in this event.)

Please accept this letter and the attached material in accordance with AS 39.52.130. If you have any questions, please let me know

Sincerely,

Eric^F. Myers Director of Operations

enclosures

ARLIS APR-14-98 TUE 09:08 AM COMMR'S OFFICE ADF&G FAX NO. 1+907+465+2332

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Ethics Disclosure Form

Notification of Receipt of Gift

To: Designated Supervisor

Subject: Notification of Receipt of a Gift (AS 39.52.130)

In accordance with AS 39.52.130(b), I am hereby providing notice of n with a value in excess of \$50.00.	ny receipt of a gift				
The cift is Attendance at a dinner on May 1, 1998 hosted by the A	laska SeaLife				
Center Board of Governors. The dinner will be catered inside	the Center and has				
an estimated cost of \$80.	•				
	· ·				
My estimate of its value is \$ 80	,				
Alaska SeaLife Center					
The date of receipt was					
The following is official action which I can take (or withhold) that affective: I do not have any specific official duties that I can as a routine part of my job. In the future, there may	cts the take (or withhold) be occaisions				
where I am tasked with working on an issue that involves the Sealife					
Center.although no specific action can be identified a	t this time.				
(Shandura)	4/22/98				
Eric F. Myers	117006				
Director of Operations, EVOS Trustee Council	Anchorage				
(Job Title)	(LOCEUDI)				

laska SeaLife Center Opening.

rnors cordially invites you pen "Windows to the Sea."

Alaska SeaLife Center Board of Governors Dinner

Friday, May 1, 1998 6:00 p.m. Cocktails and Hors d'oeuvres 7:00 p.m. Dinner and Dancing Black-tie Optional Valet Parking

Alaska SeaLife Center Grand Opening Celebration

Saturday, May 2, 1998 9:00 a.m. to 11:00 a.m. Private Breakfast Cruise 12:30 p.m. Ribbon Cutting Ceremony 1:00 p.m. to 6:00 p.m. Celebration Festivities 6:00 p.m. to 10:00 p.m. Street Dance Casual Dress Kindly respond with the em Questions should be directed

For centralized information please contact the Seward Chain or Debra at Canne

Breakfast cruise will depart fr

Shuttle transportation

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 22, 1998

Kevin Brooks Alaska Department of Fish and Game P.O. Box 25526 Juneau, Alaska 99811-5526

Dear Mr. Brooks:

As the designated ethics supervisor for the Alaska Department of Fish and Game, the purpose of this letter is to disclose the receipt of a gift as provided for by AS 39.52.130.

Please find enclosed a completed ethics disclosure form together with a copy of an invitation I received to attend the grand opening ceremonies for the Alaska SeaLife Center on May 1-2, 1998. Representatives of the *Exxon Valdez* Oil Spill Trustee Council have been invited to attend these Grand Opening ceremonies. As you know, the Alaska SeaLife Center is a world class research facility that will be officially opened next month. The Trustee Council authorized funding for the project as a co-sponsor along with the City of Seward and the Alaska State Legislature.

The opening ceremonies include a catered dinner hosted by the Center's Board of Governors on the evening of May 1st. Because of the remote logistics involved (the dinner will be held inside the Center which lacks kitchen facilities) the estimated cost of the dinner is \$80. On May 2nd there is a boat tour of Resurrection Bay with an estimated commercial value of \$60.

Please accept this letter and the attached material in accordance with AS 39.52.130.

Sincerely,

Mally Mª lama

Molly McCammon Executive Director

enclosures

cc: Steve Pennoyer Frank Rue

Ethics Disclosure Form

Notification of Receipt of Gift

To: Designated Supervisor

Subject: Notification of Receipt of a Gift (AS 39.52.130)

In accordance with AS 39.52.130(b), I am hereby providing notice of my receipt of a gift with a value in excess of \$50.00. Ceremonies associated with the Grand Opening of the Alaska The aift is ____ SeaLife Center in Seward on May'1-2, 1998. Events include a hosted dinner (estimated cost \$80) and a boat tour (estimated cost \$60). 140 My estimate of its value is S_ Alaska SeaLife Center I received it from May 1-2, 1998 The date of receipt was . The following is official action which I can take (or withhold) that affects the giver: In the past, the Trustee Council co-sponsored funding for the ave construction of the facility. Prospectively, researchers may propose to conduct research projects at the facility. The Executive Director makes recommendations to the Trustee Council regarding project proposals. Funding decisions are made by the entire Trustee Council. (Signature) Molly McCam ίOΠ 117002 (Printed Name) (PCN) Executive Director, EVOS Trustee Council Anchorage (Location) (Job Title)

he Alaska SeaLife Center rand Opening.

Governors cordially invites you we open "Windows to the Sea."

Alaska SeaLife Center Board of Governors Dinner

Friday, May 1, 1998 6:00 p.m. Cocktails and Hors d'oeuvres 7:00 p.m. Dinner and Dancing Black-tie Optional Valet Parking

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Breakfast cruise will depart fro.

Shuttle transportation (

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MEMORANDUM

TO: Exxon Valdez Oil Spill Trustee Council

FROM: May MaCammon Executive Director

RE: Updating the Status of Services Reduced or Lost Due to the Oil Spill

DATE: April 22, 1998

For each injured resource and service, the *Exxon Valdez Oil Spill Restoration Plan* (1994) identifies a recovery objective and describes the status of injury and recovery. This information was brought up to date in the *Update on Injured Resources and Services* (1996), and, as we have discussed, will be updated again in advance of the 10th Anniversary Symposium (March 1999). Ongoing Trustee Council research will be used to update the information on injured resources. The purpose of this memo is to seek your guidance in updating the status of the reduced or lost services -- subsistence, commercial fishing, recreation/tourism, and passive use.

For each reduced or lost service, this memo lists the recovery objective, briefly discusses methods used previously to evaluate the status of the service, and suggests options for evaluating the current status of the service. In each case, Option 1 calls for Trustee Council staff to update the status of the services based on the status of the resources on which the services depend. This information is available through ongoing Council research. Option 2 consists of commissioning other agency personnel or outside experts to gather additional information, to allow the Council to tell a more complete story of what has happened to the injured services since the spill.

I will be contacting each of you over the next two weeks to discuss this memo, as well as any additional suggestions you might have. If necessary, a Trustee Council meeting will be scheduled (teleconference or otherwise) to allow further discussion. In order to complete the updating task before the 10th Anniversary Symposium, a decision on how to proceed is needed soon. In some cases, follow-up action by the Council to approve funding may also be needed.

<u>Subsistence</u>

Recovery Objective Subsistence will have recovered when injured resources used for subsistence are healthy and productive and exist at prespill levels. In addition, there is recognition that people must be confident that the resources are safe to eat and that the cultural values provided by gathering, preparing, and sharing food need to be reintegrated into community life.

Previous Studies

In the years immediately following the spill, the ADFG Subsistence Division conducted subsistence harvest surveys (face-to-face interviews) in 15 communities in the spill area. The surveys found that subsistence harvests declined substantially in several communities in the year after the spill and rebounded but remained below prespill norms in several communities three years after the spill. Some subsistence users have criticized the survey methodology for its focus on the number of pounds harvested and inadequate attention to such issues as level of harvest effort and the cultural aspects of subsistence. Harvest surveys were last conducted in 1993-94.

Options

Option 1. Update recovery status of subsistence based on the status of injured subsistence resources (primarily harbor seal, fish, shellfish, and seaducks). This information is available through the Trustee Council's ongoing research projects and can be compiled by Council staff. The information used to update the recovery status would become part of the Administrative Record. A description of the Council's efforts to aid recovery would be included (i.e., projects to restore, enhance, or replace subsistence resources).

Option 2. In addition to Option 1, commission the ADFG Subsistence Division, in collaboration with Chugach Regional Resources Commission, to repeat the harvest survey in key communities. Questions relating to pounds harvested would be maintained for purposes of comparing to earlier data, and questions relating to harvest effort, perceptions of food safety, and cultural aspects would be added. Actual survey questions would be developed by a working group of Subsistence Division personnel and community representatives, with input from Trustee Council staff. Surveys would be conducted in Fall 1998, by local residents to the extent possible. Funding (rough estimate \$135,000) would be provided through the FY 99 Work Plan, with perhaps a small amount of funding for survey design work in FY 98. Study results would be presented in a written project report and at the 10th Anniversary Symposium.

Commercial Fishing

Recovery Objective

Commercial fishing will have recovered when the commercially important fish species have recovered and opportunities to catch these species are not lost or reduced because of the effects of the oil spill.

Previous Studies

A study commissioned by the State of Alaska immediately following the oil spill (M. Cohen, unpublished) used ex-vessel revenue (actuals vs. expected 1989-90) as a measure of the impact of the spill on the commercial fishing industry. The study found that impacts were limited principally to Pacific herring and pink and chum salmon, and valued the loss at \$6.4 million to \$41.8 million. Other economic measures, such as fish prices and limited entry permit values, also could be used. However, redress for economic damages suffered by commercial fishers is being pursued through a class action lawsuit and is not within the purview of the Trustee Council. In addition, market changes in recent years, unrelated to the oil spill, have altered the economic condition of the industry significantly from its pre-spill condition, thus making it difficult to detect continuing spill effects (if any).

Options

Option 1. Update recovery status of commercial fishing based on (A) the status of commercially important fish species (pink salmon, sockeye salmon, Pacific herring, and rockfish) and (B) the presence or absence of fishery closures. This information is available through the Trustee Council's ongoing research projects (part A) and the ADFG Division of Commercial Fisheries Management and Development (part B), and can be compiled by Council staff. The information used to update the recovery status would become part of the Administrative Record. A description of the Council's efforts to aid recovery would be included (i.e., projects to restore, enhance, or replace commercial species and habitat acquisitions to protect fish from further degradation).

Option 2. In addition to Option 1, commission a fisheries analyst to prepare a short report summarizing the economic state of the commercial fishing industry in Alaska and how it has changed since the oil spill. The purpose of the report would be to provide context and background for discussing the status of commercial fishing, as well as to try to tease out any lingering spill effects. Specific questions relating to spill impacts would be addressed. For example: How did the three-year herring closure affect the industry? Did the fact that the spill year was also a qualifying year for IFQs materially affect commercial fishers? The Chief Scientist would seek the services of a fisheries analyst through a professional services contract. Funds for this purpose would be needed in FY 98 (rough estimate not yet developed). Study results would be presented in a written project report and at the 10th Anniversary Symposium.

Recreation / Tourism

Recovery Objective

Recreation and tourism will have recovered, in large part, when the fish and wildlife resources on which they depend have recovered, recreation use of oiled beaches is no longer impaired, and facilities and management capabilities can accommodate changes in human use.

Previous Studies

Several studies conducted following the oil spill looked at decreases in recreational and tourist activity in 1989 versus earlier years. Visitor spending, based on expenditure diaries kept by a random sample of visitors to Alaska, was estimated to have decreased 8% in Southcentral Alaska and 35% in Southwest Alaska from the previous summer (McDowell Group, 1989). Telephone interviews with 234 spill-area businesses found that many of them experienced spill-related cancellations (59%) and less business than expected (16%) (McDowell Group, 1990). The ADFG annual sportfishing survey indicated a small drop in sportfishing in Prince William Sound, a small increase in Kodiak, and a large drop on the Kenai Peninsula (M. Mills, ADFG, 1992). Using similar measures today to identify continuing spill effects may be difficult because of the overall growth in the number of tourists to Alaska (from approximately 609,000 in Summer 1989 to more than 1 million in Summer 1996).

Options

Option 1. Update recovery status of recreation/tourism based on (A) the status of important fish and wildlife species (primarily salmon, rockfish, Dolly Varden, cutthroat trout, killer whale, sea otter, harbor seal, bald eagle, seabirds, and harlequin ducks), (B) the presence of oil on beaches, and (C) the presence of recreational facilities. This information is available through the Trustee Council's ongoing research projects (parts A and B) and the State Division of Parks, the National Park Service, the U.S. Forest Service, and others (part C), and can be compiled by Council staff. The information used to update the recovery status would become part of the Administrative Record. A description of the Council's efforts to aid recovery would be included (i.e., projects to restore important species and to clean beaches).

Option 2. In addition to Option 1, compare number of people participating in selected recreational and tourist activities, 1988 and 1989 to present (e.g., level of sportfishing activity, U.S. Forest Service cabin usage, number of visitors to Kenai Fjords National Park Visitor Center). Also note any sportfishing and hunting closures or harvest restrictions. Data are available from various sources and can be compiled by Trustee Council staff; this compilation would <u>not</u> include an analysis of factors that may have influenced participation levels. Information collected would become part of the Administrative Record.

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Option 3. In addition to Options 1 and 2, conduct a survey of recreational users' perceptions of the spill area pre- and post-spill. A recreation analyst could be commissioned to conduct this study. As an alternative, Trustee Council staff could conduct telephone interviews with key informants in order to provide a sense of users' perceptions. In addition, some perception information is currently available from customer surveys conducted by the U. S. Forest Service in Prince William Sound in 1992 and later years. Option 3 would address the concern that, even though overall usage numbers are known to be up, users familiar with Prince William Sound prior to the spill report that spill effects remain (e.g., certain beaches are not being used, wildlife viewing is diminished). If this work was performed by a recreation analyst, funds would be needed in FY 98 (rough estimate not yet developed). Study results would be presented in a written project report and at the 10th Anniversary Symposium.

Passive Use

Recovery Objective

Passive uses will have recovered when people perceive that aesthetic and intrinsic values associated with the spill area are no longer diminished by the spill.

Previous Studies

Following the oil spill, the state commissioned a study to measure lost passive use using contingent valuation (R. Carson, 1992). Face-to-face interviews were conducted with a random sample of 1,423 U.S. households to elicit what people would be willing to pay in additional taxes to fund an escort ship program designed to prevent future oil spills. The estimate of the lost passive use value was \$2.8 billion (median household willingness-to-pay of \$31 multiplied by 90,838,000 English-speaking U.S. households). This study's emphasis on economic value is probably not directly relevant to the Trustee Council's ongoing mission of restoration.

Options

Option 1. Revise the recovery objective to reflect the recovery status of the other injured resources and other services. Then update the recovery status of passive uses based on the status of the injured resources and services. This information is available through the Trustee Council's ongoing research projects and as discussed above, and can be compiled by Council staff. The information used to update the recovery status would become part of the Administrative Record.

Option 2. Commission a telephone survey of people's perceptions of the recovery status of the spill area, based on a random sample of U.S. households. Funds for this purpose would be needed in FY 98 (rough estimate not yet developed). Study results would be presented in a written project report and at the 10th Anniversary Symposium.

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A description of the Trustee Council's efforts to provide the public with the latest information on the status of restoration would be included.

cc: Trustee Council Liaisons Legal Counsel (Belt, Roth, Lisowski, Swiderski)


645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

TO: Trustee Council members

FROM: Molly Magammon

DATE: April 22, 1998

SUBJ: Alaska SeaLife Center Grand Opening

Please note that for the purpose of any applicable federal or state reporting requirement, the SeaLife Center staff has advised that the cost of the Board of Governors dinner on Friday, May 1 can be estimated at \$80.00. The breakfast cruise on May 2 has an estimated value of \$60.00.

cc: Craig Tillery Jim Wolfe Dave Gibbons Barry Roth Alex Swiderski James R. Ayers

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



April 22, 1998

Mr. Scott Lindquist 18123 Tonsina Court Eagle River, Alaska 99577

Dear Mr. Lindquist:

Thank you for your interest in the restoration program. Because of your specific interest in Pacific herring, I wanted to provide you with some information about the restoration efforts specific to this species.

The Trustee Council formally adopted a *Restoration Plan* in November 1994 that recognized Pacific herring as an injured resource. Pacific herring spawned in intertidal and subtidal habitats in Prince William Sound shortly after the oil spill. A significant portion of these spawning habitats as well as herring staging areas in the Sound were contaminated by oil. Field studies conducted in 1989 and 1990 documented increased rates of egg mortality and larval deformities in oiled versus unoiled areas. Subsequent laboratory studies confirm that these effects can be caused by exposure to *Exxon Valdez* oil, but the significance of these injuries at a population level is not known.

The 1988 pre-spill year-class of Pacific herring was very strong in Prince William Sound, and, as a result, the estimated peak biomass of spawning adults in 1992 was at a record level. In 1993, however, there was an unprecedented crash of the adult herring population. A viral disease and fungus were the probable agents of mortality, and the connection between the oil spill and the disease outbreak is under investigation. The estimated peak biomass of spawning Pacific herring in PWS in 1993 was 60 percent less than the record level in 1992. Low biomass levels continued through 1995, but by the spring of 1996 it appeared that the spawning biomass was rebounding. The spring commercial fishery reopened in 1997 and a commercial fishery has recently been conducted this spring as well. Although there are now harvestable surpluses, the biomass is still not nearly as robust as it once was and investigations of Pacific herring continue.

Pacific herring are extremely important ecologically, commercially and for subsistence users. Reduced herring populations could have significant implications for both their predators and their prey, and closures of the herring fishery in the recent past have had serious economic impact on the people and communities in Prince William Sound. Preliminary results from the Prince William Sound Ecosystem Assessment or "SEA" program (Project /320) indicate the possible significance of walleye pollock as both competitors with and predators on herring, which may indicate that there is a connection

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U.S. Department of the Interior U.S. Department of Agriculture National Oceanic and Atmospheric Administration U.S. Department of Agriculture National Oceanic and Atmospheric Administration between the lack of recruitment of strong year classes of herring and the recent presence of large numbers of pollock in Prince William Sound.

For each injured resource, the Trustee Council has adopted a specific recovery objective. Pacific herring will be considered to have recovered when the next highly successful year class is recruited into the fishery and when other indicators of population health are sustained within normal bounds in Prince William Sound. While recognizing that natural recovery will play a large role in the eventual restoration of this species, the Trustee Council has invested substantially in scientific research and monitoring efforts to better understand the factors that may be limiting or controlling the recruitment and heath of this species.

For your reference, please find enclosed two papers that were included in the *Exxon Valdez* Oil Spill Symposium Proceedings published by the American Fisheries Society - Symposium 18 (1996):

E.D. Brown, et al., Injury to the Early Life History Stages of Pacific Herring in Prince William Sound after the *Exxon Valdez* Oil Spill

B.L. Norcross and M. Frandson, Distribution and Abundance of Larval Fishes in Prince William Sound, Alaska, during 1989 after the *Exxon Valdez* Oil Spill

A partial listing of other relevant reports on herring projects sponsored by the Trustee Council is provided below:

Project 95074: Carls, M.G., S.W. Johnson, R.E. Thomas, and S.D. Rice. 1997. Health and reproductive implication of exposure of Pacific herring (*Clupea pallasi*) adults and eggs to weathered crude oil, and reproductive condition of herring stock in Prince William Sound six years after the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill Restoration Project Final Report (Restoration Project 95074), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Auke Bay Laboratory, Juneau, Alaska. (NTIS No. PB98-108566)

Project 94166: Carls, M.G., S.D. Rice, and R.E. Thomas. 1995. The impact of exposure of adult pre-spawn herring (Clupea harengus pallasi) on subsequent progeny, *Exxon Valdez* Oil Spill Restoration Project Annual Report (Restoration Project 94166), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Auke Bay Laboratory, Juneau, Alaska.

Project 94166-1: Wilcock, J.A., E.D. Brown, and E. Debevec. 1995. Herring spawn deposition and reproductive impairment, *Exxon Valdez* Oil Spill Restoration Project Annual Report (Restoration Project 94166-1), Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Cordova, Alaska.

Project 94320S: Marty, C.D., E.F. Frieberg, T.R. Meyers, J.A. Wilcock, C.R. Davis, T.B. Farver, and D.E. Hinton. 1995. *Ichthyophonus hoferi*, viral hemorrhagic septicemia virus, and other causes of morbidity in Pacific herring spawning in Prince William Sound in 1994, *Exxon Valdez* Oil Spill Restoration Project Annual Report (Restoration Project 94320S), Alaska Department of Fish and Game, Habitat and Restoration Division, Anchorage, Alaska.

Project 95320S: Marty, G.D., D.E. Hinton, R.M. Kocan, M.L. Landolt, J.R. Winton, C.J. Kennedy, and A.P. Farrell. 1996. Investigations of disease factors affecting declines of

Pacific herring populations in Prince William Sound, *Exxon Valdez* Oil Spill Restoration Project Annual Report (Restoration Project 95320S), Alaska Department of Fish and Game, Habitat and Restoration Division, Anchorage, Alaska.

Project 96162: Marty, G.D., D.E. Hinton, R.M. Kocan, J.R. Winton, C.J. Kennedy, and A.P. Farrell. 1997. Investigations of disease factors affecting Pacific herring populations in Prince William Sound, *Exxon Valdez* Oil Spill Restoration Project Annual Report (Restoration Project 96162), Alaska Department of Fish and Game, Habitat and Restoration Division, Anchorage, Alaska.

These studies, as well as other materials regarding Trustee Council sponsored research on herring and other restoration activities, are available through the Alaska Resources Library and Information Service (ARLIS is located 3150 C Street) where you will find a comprehensive set of the completed annual and final restoration project reports.

In addition, I have enclosed copies of abstracts of several other on-going herring investigations as presented at the Trustee Council's 1998 restoration workshop held in January. The workshop is an annual gathering of Trustee Council sponsored researchers to present findings and share results. The abstracts reflect work in progress on a variety of topics, such as use of spawn deposition and acoustic surveys to estimate biomass, investigation into the stock structure of PWS herring populations, and several studies focused on herring disease factors. If you have further questions about the herring research program, you may wish to speak with Stan Senner, Science Coordinator in the Restoration Office.

Also enclosed for your reference is a copy of the current Work Plan which provides a brief abstract of each of the projects being funded by the Trustee Council in fiscal year 1998, as well as the most recent 1998 Status Report.

I hope you find this information useful.

Sincerely,

Eric/F. Myers Director of Operations

enclosures

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

Date:	April 22, 1998
Subject:	Proposed FY 99 EVOS Projects at the ASLC
From:	Stan Senner, Science Coordinator
То:	Kim Sundberg and Mike Castellini Alaska SeaLife Center

We have received 12 detailed project descriptions (DPDs) that appear to require use of research facilities at the Alaska SeaLife Center in FY 99. Some of these are continuing proposals; some are for new work. Here is how I see the process leading up to a decision by the Trustee Council on the FY 99 work plan.

Our scientific review of the FY 99 DPDs is scheduled for May 17-19. By May 17, if possible, we need your preliminary comments on the appropriateness and feasibility of the projects proposed for the ASLC. Are any of the proposals for work that clearly would be inappropriate in nature or infeasible due to conflicts with other projects or other problems? If you also were able to provide even a rough estimate of the bench fees, that information would be very helpful to our evaluation.

We will share your feedback with our scientific reviewers and the Executive Director. Once we have a draft recommendation from the Executive Director (in late May-early June), we will let you know which ASLC proposals are tentatively proposed for funding. At that time, we can have additional discussion about the appropriateness and feasibility of the potentially funded projects, and we would then need a second, more firm estimate of proposed bench fees. We may need some back and forth on the details and the overall package, but the goal is to have a suite of studies for which the substance and the costs are mutually acceptable in advance of Trustee Council action on the work plan, tentatively scheduled for August 6.

I hope that the above makes sense and is agreeable to you. Please let me know if you have questions or concerns. Thank you.

SS/kh encl: DPDs and spreadsheet cc w/o DPDs: Molly McCammon Robert Spies/Andy Gunther Sandra Schubert Susan Inglis

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U.S. Department of the Interior U.S. Department of Agriculture U.S. Department of Agriculture National Oceanic and Atmospheric Administration National Oceanic and Atmospheric Administration

PROJECTS THAT PROPOSE TO USE ALASKA SEALIFE CENTER -- FY 99

5 · M			Lead	New or	FY99 Expected	FY99 Request	Total Request FY99-02
Proj.No.	ProjectTitle	Proposer	Agency				
Pink Salmo	on		<u></u>	<u></u>			
99190	Construction of a Linkage Map for the Pink Salmon Genome	F. Allendorf/Univ. Montana	ADFG	Cont'd 4th yr. 5 yr. proj	\$187.0 ject	\$187.3	\$374.6
This proje linkage m disease m marine su estimate	ect will complete a genetic linkage map for pink salmon in FY 98. In hap to test for organismal effects of molecular markers on phenotype resistance). These studies will aid recovery efforts with pink salmon urvival has a genetic basis. The tests for natural selection on molec gene flow in pink salmon and other marine species.	FY 99, experiments will be continues that are likely to affect fitness in , including estimation of straying ra , ular markers have broad significan	ied at the Ala pink salmon tes, descripti ce for the use	ska SeaLif (e.g., survi on of stock e of molect	e Center tha val, growth, a structure, a ular genetic r	it use the and nd testing markers to	if
99489	Crude Oil Exposure Effects on Salmon Smolts	S. Ebbesson/UAF	ADFG	New 1st yr. 4 yr. proj	ect	\$107.0	\$472.9
Crude oil project wi systems a salmon d	exposure has previously been shown to alter thyroid hormone level ill determine to what extent exposure to crude oil affects neural and are vital for survival in the sea and return to natal stream. These stu uring this critical period of development, which may explain survival	Is differently in fish, depending on t endocrine systems during and afte udies will provide information regard and return-rate problems following	he species ar r smoltificatio ding the impa the oil spill.	nd develop on. The no act, if any, o	mental stage rmal change of crude oil e	 This in these xposure or 	n
Cutthroat T	Frout, Dolly Varden, and Other Fish						
99252	Investigations of Genetically Important Conservation Units of Rockfish and Walleye Pollock	J. Seeb, L. Seeb/ADFG	ADFG	Cont'd 2nd yr. 5 yr. proj	\$263.8 ject	\$263.7	\$1,106.7
This proje Alaska De develop e by Univer the Sewa	ect will consolidate an array of requests from the commercial fisheric epartment of Fish and Game would conduct at its Anchorage geneti experimental fish runs at the Alaska SeaLife Center; these are essen rsity of Montana, University of Alaska, or the Alaska Department of I ard facility.	es industry for discrete stock resea ics laboratory. Also, the Alaska De ntial for study of genetics, physiolog Fish and Game and other principal	rch into a sing partment of F gy, or disease investigators	gle propos Fish and Ga es of anadi seeking to	al for work th ame propose romous fish p conduct res	at the sto proposed search at	

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PROJECTS THAT PROPOSE TO USE ALASKA SEALIFE CENTER -- FY 99

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Total Request FY99-02
Marine Marr	nmals	antanan da di 1991 - San an a					
99341	Harbor Seal Recovery: Controlled Studies of Health and Diet	M. Castellini/UAF	ADFG	Cont'd 2nd yr. 4 yr. proje	\$125.1 ect	\$133.4	\$357.6
This project conduct su nutritionally EVOS sup project will	ct will continue a long-term study to quantify the impact of feeding s uch investigations, under controlled conditions, is now available at t y adequate to maintain seal health. Even though health status bior ported field trials, the critical test of how each marker varies in an in I focus on the issue of harbor seal health, the approach is potential	pecific fish diets on the health a he Alaska SeaLife Center. This markers for marine mammals in ndividual as a result of a specific ly applicable to any of the injured	nd body condition project will esta Prince William S prey item has I top predators.	on of harbo ablish wheth Sound were not been es	r seals. The ner specific established. N stablished. N	e ability to diets are I during While this	
99371	Effects of Harbor Seal Metabolism on Stable Isotope Ratio Tracers	D. Schell/UAF	ADFG	New 1st yr. 3 yr. proje	ect	\$105.9	\$309.3
A major co habitats or problems v acids label Center. Sj	oncern with the use of stable isotope tracers in ecosystem studies is r prey cannot be assessed if geographic gradients in isotope ratios we will seek specific conservative biomarkers such as essential am led with 15N and 13C will be used to follow transamination and car pecific fatty acid isolation and determination of suitability as habitat	s the fidelity with which ratios are are laid on top of trophic effects nino acids or fatty acids that carn bon relocation during metabolic biomarkers will follow in years to	e transferred up and/or prey sw / isotope ratios processes in the wo and three of	food chain itching. To unmodified e seals at th the project	s. Use of s remove the by metabol ne Alaska S	becific se ism. Amir eaLife	0
99441-BAA	Harbor Seal Recovery: Effects of Diet on Lipid Metabolism and Health	R. Davis/Texas A&M Univ.	ADFG	New 1st yr. 2 yr. proje	ect	\$131.6	\$263.2
To better u nutritional change ov metabolisr investigatio	understand the results from field studies of harbor seal health, body composition. Working with the Alaska SeaLife Center, this project rer time during controlled diets of pollock, herring, and several group m of skeletal muscle in harbor seals fed controlled diets and for wild ons of diet and health to provide a more in-depth understanding of	v condition, and feeding ecology, will determine how fatty acid pro nd fish species. In addition, it wi d harbor seals in Prince William S the nutritional role and assessme	data are neede files in the blub Il assess the ae Sound. The res ent of dietary fa	ed for seals ber of capti erobic capac sults will aug t for harbor	on diets tha ve harbor se city and lipic gment alread seals.	it vary in eals l dy funded	

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PROJECTS THAT PROPOSE TO USL _LASKA SEALIFE CENTER -- FY 99

Total FY99 Request Lead New or **FY99** Request FY99-02 Cont'd Agency Expected Proj.No. **ProjectTitle** Proposer Physiological Condition of Juvenile Harbor Seals: Impacts of 99464 J. Burns/UC Santa Cruz ADFG New \$51.9 \$201.7 Age and Morphology 1st vr. 4 yr. project This project will characterize the morphological and physiological factors that limit the diving behavior and foraging efficiency of harbor seal pups. The size, body composition, oxygen stores and metabolic rates of healthy wild pups captured within Prince William Sound will be measured, and compared to values determined for animals that enter the Alaska SeaLife Center in need of rehabilitation. These comparisons will allow us to determine when and why harbor seal pups are most vulnerable to ecological disturbances, and to identify factors which have a high probability of impacting successful recruitment. Data collected in this study will be augmented by that collected in Prince William Sound in FY 98, and in California as part of a separate project. **Nearshore Ecosystem** Responses of River Otters to Oil Contamination: A M. Ben-David, T. Bowver, L. ADFG Cont'd 99348 \$176.6 \$222.9 \$222.9 Controlled Study of Biological Stress Markers Duffy/UAF 2nd yr. 2 yr. project This project will explore the effects of oil contamination on physiological and behavioral responses in river otters experimentally. Fifteen captive otters will be exposed to two levels of oil contamination under controlled conditions in captivity. Samples of blood, tissues, and feces will be collected for analysis of biomarkers and immunological examinations. Proximate and Ultimate Effects of Crude Oil on the Intertidal 99432 A.J. Paul/UAF ADFG New \$66.4 \$151.6 Fish, High Cockscomb 1st yr. 3 yr. project The high cockscomb (Anoplarchus purpurescens) is an abundant intertidal fish of Prince William Sound that had elevated hepatic P-4501A levels after the oil spill. This study's first objective is to examine possible continued sublethal effects by determining hepatic P-4501A levels in Prince William Sound cockscombs ten years after the spill. Sublethal exposure to oil is often lethal in the long term because it reduces an organism's fitness through altered reproduction. Elevated P-4501A levels in Prince William Sound cockscombs were primarily due to living on oiled sediment. Therefore, the second objective is to determine how living on oiled sediment affects spawning behavior, maternal care of the eggs, and embryonic development. Evaluating Recovery of Coastal River Otters: 99448 M. Ben-David, T. Bowyer/UAF ADFG New \$90.1 \$144.8 Gender-Specific Response to the Oil Spill 1st yr. 2 yr. project This project will investigate diets of male and female river otters inhabiting oiled and unoiled areas of Prince William Sound. It will ascertain diet composition using archived fecal samples from immediately post spill to the present, and determine gender classification of the feces by DNA analysis. Direct observations in previous studies suggested that male and female river otters may differ in their foraging strategies, with solitary females concentrating more on sedentary intertidal fish, whereas groups of males rely more on pelagic fish. Therefore, females may have increased susceptibility to disturbance of the intertidal zone leading to significant effects on population recovery.

PROJECTS THAT PROPOSE TO USE ALASKA SEALIFE CENTER -- FY 99

							Total
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99464	Physiological Condition of Juvenile Harbor Seals: Impacts of Age and Morphology	J. Burns/UC Santa Cruz	ADFG	New 1st yr. 4 yr. proje	ect	\$51.9	\$201.7
This project body comp determined seal pups a collected in	t will characterize the morphological and physiological factors that position, oxygen stores and metabolic rates of healthy wild pups can d for animals that enter the Alaska SeaLife Center in need of rehab are most vulnerable to ecological disturbances, and to identify factor this study will be augmented by that collected in Prince William So	limit the diving behavior and foraging otured within Prince William Sound w ilitation. These comparisons will allo ors which have a high probability of in ound in FY 98, and in California as pa	efficiency ill be meas w us to det npacting su art of a sep	of harbor s ured, and c ermine whe uccessful re arate projec	eal pups. T compared to en and why cruitment. ct.	^r he size, o values harbor Data	
Nearshore E	Cosystem	<u> </u>					
99348	Responses of River Otters to Oil Contamination: A Controlled Study of Biological Stress Markers	M. Ben-David, T. Bowyer, L. Duffy/UAF	ADFG	Cont'd 2nd yr. 2 yr. proje	\$176.6 ect	\$222.9	\$222.9
This project exposed to biomarkers	t will explore the effects of oil contamination on physiological and to two levels of oil contamination under controlled conditions in captions and immunological examinations.	ehavioral responses in river otters ex vity. Samples of blood, tissues, and	xperimenta feces will b	lly. Fifteen e collected	captive otte for analysis	ers will be s of	
99432	Proximate and Ultimate Effects of Crude Oil on the Intertidal Fish, High Cockscomb	A.J. Paul/UAF	ADFG	New 1st yr. 3 yr. proje	ect	\$66.4	\$151.6
The high c spill. This ten years a Elevated P how living	ockscomb (<i>Anoplarchus purpurescens</i>) is an abundant intertidal fis study's first objective is to examine possible continued sublethal ef after the spill. Sublethal exposure to oil is often lethal in the long ter 2-4501A levels in Prince William Sound cockscombs were primarily on oiled sediment affects spawning behavior, maternal care of the	h of Prince William Sound that had e fects by determining hepatic P-45014 m because it reduces an organism's due to living on oiled sediment. The eggs, and embryonic development.	levated he levels in f fitness thro refore, the	patic P-450 Prince Willia ough altere second obj	1A levels at am Sound c d reproducti ective is to o	fter the oil ockscomb ion. determine	os
99448	Evaluating Recovery of Coastal River Otters: Gender-Specific Response to the Oil Spill	M. Ben-David, T. Bowyer/UAF	ADFG	New 1st yr. 2 yr. proje	ect	\$90.1	\$144.8
This projec using archi in previous intertidal fis leading to	et will investigate diets of male and female river otters inhabiting oile ived fecal samples from immediately post spill to the present, and o s studies suggested that male and female river otters may differ in t sh, whereas groups of males rely more on pelagic fish. Therefore, significant effects on population recovery.	ed and unoiled areas of Prince Williar letermine gender classification of the heir foraging strategies, with solitary females may have increased suscep	n Sound. 1 feces by E females co tibility to di	t will ascerf NA analys ncentrating sturbance o	ain diet con is. Direct of more on se of the intertio	nposition bservatior edentary dal zone	S

PROJECTS THAT PROPOSE TO USE ALASKA SEALIFE CENTER -- FY 99

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request I	Request FY99-02
		······			<u></u>		
Seabird/Fora	age Fish and Related Projects						
99327	Pigeon Guillemot Restoration Research at the Alaska SeaLife Center	D. Roby/Oregon State Univ.	DOI	Cont'd 2nd yr. 4 yr. proj	\$159.5 ect	\$158.0	\$325.0
This project will test the feasibility of direct restoration techniques for pigeon guillemots (e.g., installation of artificial nest sites, use of social attractants, captive propagation and release). While raising young guillemots in captivity it will also be possible to conduct controlled experiments crucial to two other restoration objectives: (1) development of nondestructive biomarkers of petroleum hydrocarbon contamination, and (2) understanding how dietary factors (prey species composition, prey size, lipid content, feeding frequency) constrain growth, development, and condition at fledging in guillemots.							
99479	Effects of Food Stress on Survival and Reproductive Performance of Seabirds	J. Piatt/USGS-BRD, A. Kitaysky/Univ. of Washington	DOI	New 1st yr. 4 yr. proj	ect	\$100.4	\$430.2
This projec restraint. T population stress. Thi of food. Th	t will measure the rise in blood levels of stress hormones such a This well-known response (found throughout vertebrates from fis is chronically stressed or, if baseline levels of corticosterone ap is "field endocrinology" approach provides exact information on the project will investigate seabirds breeding in lower Cook Inlet a	as corticosterone in response to a stan sh to mammals) provides a strong asse pear normal, the stress-induced increa current stress status and the potential and also use captive birds for controlled	dardized sti essment of v se in cortico for stress in d experimer	ressor: cap whether or osterone in relating to nts at the A	oture, handlin not a free-liv dicates poter quality and a laska SeaLif	ng and ing ntial for abundance e Center.	,

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Total

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645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

- TO: Bruce Wright / NOAA
- FROM: Molly McCampan Executive Director
- RE: Extension of Due Date: FY 97 Annual Report (NOAA Component) Project 96291 / Chenega-area Shoreline Residual Oiling Reduction
- DATE: April 21, 1998

This memo is to confirm an extended due date of June 30, 1998 for NOAA's annual report on the Chenega-area Shoreline Residual Oiling Reduction project. I understand that this extension is needed due to the PI's illness. It is also my understanding that the final report on this project will integrate both NOAA's and ADEC's findings, and will be submitted no later than December 30, 1998.

Bob Spies, Chief Scientist CC:

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

- TO: Bruce Wright / NOAA
- FROM: Molly Mc daturpon Executive Director
- RE: Extension of Due Date: FY 97 Annual Report Project 97195 / Pristane Monitoring in Mussels
- DATE: April 21, 1998

This memo is to confirm an extended due date of June 15, 1998 for the annual report on Project 97195/Pristane Monitoring in Mussels. I understand that this extension is needed due to the demands of other EVOS-related work.

cc: Bob Spies, Chief Scientist

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

- TO: Lisa Scarbrough / ADFG
- FROM: Molly McCammon Executive Director
- RE: Extension of Due Date: FY 97 Annual Report Project 97247 / Kametolook River Coho Salmon Subsistence Project
- DATE: April 22, 1998

This memo is to confirm an extended due date of May 15, 1998 for your annual report on Project 97247/Kametolook River Coho Salmon Subsistence Project. I understand that this extension request is due to your absence from the office while attending to personal family matters.

cc: Bob Spies, Chief Scientist Claudia Slater/ADFG Liaison



645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

- Bob Armstrong, PI TO:
- Molly MeCammon FROM: Executive Director
- RE: Extension of Due Date: Final Project 98346 / Publication of Ammodytes (Sand Lance)

DATE: April 21, 1998

This memo is in response to your request for an extension of the due date to October 1998 for your final report on Project 98346/Publication of an Indexed Bibliography of the Genus Ammodytes (Sand Lance). The Detailed Project Description approved by the Trustee Council called for the final report to be submitted for peer review in February 1998. However, I understand that work is still in progress on the bibliography, as the number of references has grown significantly beyond what was originally planned. Because you have submitted a proposal for FY 99 for supplemental funding to cover the increased cost of publishing this much larger bibliography, I would propose that we wait until the Trustee Council has made a decision on your FY 99 request before establishing a new due date for your final report.

Regarding the differences between the Trustee Council's report writing procedures and the USFS General Technical Report guidelines, please feel free to prepare your report according to the General Technical Report guidelines.

Bob Spies. Chief Scientist CC: Karen Murphy / USFS

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

To: Core Reviewers: Chris Haney, Phil Mundy, Pete Peterson, George Rose, and Polly Wheeler

Subject: Technical Review of FY 99 DPDs

Date: April 21, 1998

From:

Here is your set of Detailed Project Descriptions (DPDs) for the FY 1999 Work Plan. You will receive a separate memorandum from the Chief Scientist with your specific assignments for detailed reviews of the DPDs.



We will follow the same basic procedures as we have followed in prior years. You will receive evaluation forms with the memo coming from the Chief Scientist. Please fill these out as you do your assigned reviews and bring them to the meeting of the core reviewers scheduled for May 17-19 in Anchorage (at the Restoration Office). Be prepared to lead the discussion for the projects for which you are the primary reviewer. For each proposal, the Chief Scientist will then formulate a recommendation to the Executive Director, based on your written evaluations and the discussion at the core reviewer meeting. Your individual evaluations will be retained by the Chief Scientist (not the Restoration Office) for reference purposes. In the case of your reviews of the projects submitted under the Broad Agency Announcement (BAA), NOAA will be provided file copies, but these are confidential and will not be available to the public.

Although you are assigned a subset of proposals for which you are the lead or secondary reviewer, we also need you to be generally familiar with the full suite of DPDs. This is important because we will need your comments about individual DPDs *vis a vis* others within the same cluster (e.g., pink salmon, seabirds & forage fish), as well as within the overall Restoration Program. In addition to the questions on the review form, consider the following questions in relation to the clusters and the overall program:

Are some projects worthwhile and technically appropriate but less important than others?

Are some projects most appropriately considered to be within the normal management responsibilities of Trustee agencies?

Tech Review Page 2 April 21, 1998

Are some new projects more important than some ongoing projects?

Are some projects especially important because they help achieve a balanced, integrated, ecologically-oriented whole?

Are there important gaps?

Given existing financial commitments (i.e., costs of on-going work), are the FY 99 and future costs of new projects sustainable?

For continuing projects, take special note of the "Explanation of Changes in Continuing Projects," which is to be included in each such proposal. This section should simplify your review of ongoing work.

It now appears that any reviewer who reviews a proposal submitted through the NOAA BAA process will be required to complete several disclosure/conflict of interest forms. These forms and instructions will be mailed separately by Applied Marine Sciences.

You have been through this before, but if you have questions, please call me (907-278-8012) or Andy Gunther (510-373-7142). We look forward to seeing you in Anchorage on May 17. Thank you.

SS/kh enclosures (notebooks and spread sheet) cc: Robert Spies Molly McCammon Sandra Schubert



645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178



MEMORANDUM

- TO: Restoration Work Force Coordinating Committee PAG Representatives FROM: Sandra Schuber Project Coordinator
- RE: FY 99 Restoration Proposals
- DATE: April 20, 1998

This set of binders contains the Detailed Project Descriptions and detailed budgets submitted in response to the Trustee Council's FY 99 *Invitation to Submit Restoration Proposals*. In all, 141 research/monitoring/general restoration proposals totaling \$23.8 million were received. Five additional proposals, which if funded would be outside of the annual work plan, were also received (see projects 99100, 126, 304, 424, and 474).

The front pocket of the first binder contains two spreadsheets:

- 1. A list of all proposals in numeric order. This list contains the project's assigned number and title, and the name of the individual who submitted the proposal.
- 2. A list of all proposals by resource cluster. In addition to project number, title, and proposer, this list contains an abstract of the project, the project's assigned lead agency, the amount of funding requested for FY 99, and the project's duration (the number of years for which funding is being requested from the Trustee Council). For continuing projects, the spreadsheet also contains the FY 98 projection of the amount of funding needed in FY 99 (this column is labeled "FY 99 Expected"). Please note that funding requests from non-Trustee agencies have been adjusted by Restoration Office staff to include agency "GA" (general administration).

Both of the spreadsheets are marked DRAFT. Please give me a call if you find any errors or omissions. Lead agencies and research clusters were assigned by Restoration Office staff, and are open to discussion.

The meeting of the Executive Director, Restoration Work Force, Coordinating Committee, and two PAG members to develop the Draft Work Plan will be held in the Restoration Office (4th floor conference room) from 9:00 am - 5:00 pm Thursday, May 28, 1998.



j.No.	Project Title	Proposer	Resource Cluster
99007A	Archaeological Index Site Monitoring	D. Reger/ADNR	Archaeological Resources
99012A-BAA	Comprehensive Killer Whale Investigation in Prince William Sound	C. Matkin/North Gulf Oceanic Society	Marine Mammals
99025-CLO	Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators (NVP)	L. Holland-Bartels, et al/USGS-BRD	Nearshore Ecosystem
99043B-CLO	Monitoring of Cutthroat Trout and Dolly Varden Habitat Improvement Structures	D. Gillikin/USFS	Cutthroat Trout, Dolly Varden, and Other Fish
99052A	Community Involvement	P. Brown- Schwalenberg/CRRC	Subsistence
99052B	Traditional Ecological Knowledge	P. Brown- Schwalenberg/CRRC	Subsistence
99064	Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound	K. Frost/ADFG	Marine Mammals
99090	Monitoring of Oiled Mussel Beds in Prince William Sound	P. Harris, C. Brodersen/NOAA	Nearshore Ecosystem
99100	Administration, Science Management, and Public Information	All Trustee Council Agencies	Administration, Science Management, and
ð	Habitat Protection and Acquisition Support	C. Fries/ADNR, D. Gibbons/USFS, G. Elison/DOI	Public Info. Habitat Protection
99127	Tatitlek Coho Salmon Release	G. Kompkoff/Tatitlek IRA Council	Subsistence
99131	Chugach Native Region Clam Restoration	P. Brown- Schwalenberg/ CRRC	Subsistence
99139A2	Port Dick Creek Tributary Restoration and Development	W. Bucher/ADFG	Pink Salmon
99144A	Common Murre Population Monitoring	D. Roseneau/USFWS	Seabird/Forage Fish and Related Projects
99145-CLO	Cutthroat Trout and Dolly Varden: Relation Among and Within Populations of Anadromous and Resident Forms	G. Reeves/USFS, K. Currens/Northwest Indian Fisheries Commission	Cutthroat Trout, Dolly Varden, and Other Fish
99149-CLO	Archaeological Site Stewardship	D. Reger/ADNR	Archaeological Resources
99159	Surveys to Monitor Marine Bird Abundance in Prince William Sound During Winter and Summer; Report and Publication Writing	B. Lance, D. Irons/USFWS	Seabird/Forage Fish and Related Projects
99162A	Investigation of Disease Factors Affecting Declines of Pacific Herring Populations: Manuscripts/Conference Attendance (Part A)	R. Kocan/Univ. of Washington	Pacific Herring
2B	Investigations of Disease Factors Affecting Declines of Pacific Herring Populations: Manuscripts/Conference Attendance (Part B)	J. Kennedy/Simon Fraser Univ.	Pacific Herring

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i.No.	Project Title	Proposer	Resource Cluster
99163	APEX: Alaska Predator Ecosystem Experiment in Prince William Sound and the Gulf of Alaska	D. Duffy/Paumanok Solutions	Seabird/Forage Fish and Related Projects
99169	A Genetic Study to Aid in Restoration of Murres, Guillemots, and Murrelets in the Gulf of Alaska	V. Friesen/Queen's Univ., J. Piatt/USGS-BRD	Seabird/Forage Fish and Related Projects
99180-CLO	Kenai Habitat Restoration and Recreation Enhancement	A. Weiner/ADNR, K. Cromery/USFS	Habitat Improvement
99188-CLO	Otolith Thermal Mass Marking of Hatchery Reared Pink Salmon In Prince William Sound	T. Joyce/ADFG	Pink Salmon
99190	Construction of a Linkage Map for the Pink Salmon Genome	F. Allendorf/Univ. Montana	Pink Salmon
99191A-CLO	Field Examination of Oil-Related Embryo Mortalities in Pink Salmon Populations in Prince William Sound	M. Willette/ADFG	Pink Salmon
99195	Pristane Monitoring in Mussels	J. Short, P. Harris/NOAA	SEA and Related Projects
99196-CLO	Genetic Structure of Prince William Sound Pink Salmon	C. Habicht/ADFG	Pink Salmon
99210	Youth Area Watch	R. Sampson/Chugach School District	Subsistence
З-ВАА	Evaluation of Sea Otter Population Structure, Population Condition, and Habitat Use in Prince William Sound and Adjacent Areas	L. Rotterman/Enhydra Research	Nearshore Ecosystem
99225	Port Graham Pink Salmon Subsistence Project	E. Anahonak,/Port Graham IRA Council	Subsistence
99230	Valdez Duck Flats Conceptual Management Plan	J. Isaacs/PWSEDC	Habitat Improvement
99245	Community-Based Harbor Seal Management and Biological Sampling	J. Fall/ADFG, M. Riedel/Alaska Harbor Seal Commission	Subsistence
99247	Kametolook River Coho Salmon Subsistence Project	Perryville Village Council	Subsistence
99250	Project Management	All Trustee Council Agencies	Project Management
99252	Investigations of Genetically Important Conservation Units of Rockfish and Walleye Pollock	J. Seeb, L. Seeb/ADFG	Cutthroat Trout, Dolly Varden, and Other Fish
99256B	Sockeye Salmon Stocking at Solf Lake	D. Gillikin/USFS, P. Shields/ADFG	Subsistence
99263	Assessment, Protection and Enhancement of Salmon Streams in Lower Cook Inlet	W. Meganack, Jr./Port Graham Corporation	Subsistence
99273	Surf Scoter and Goldeneye Life History and Ecology: Linking Satellite Technology with Traditional Knowledge to Conserve the Resource	D. Rosenberg/ADFG	Subsistence
	Development of an Ecological Characterization and Site Profile for Kachemak Bav/Lower Cook Inlet	G. Seaman/ADFG	Ecosystem Synthesis

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1	j.No.	Project Title	Proposer	Resource Cluster
	99287-BAA	Seabird-Oceanographic Relationships in the Northern Gulf of Alaska: Integration with NSF Study "GLOBEC"	R. Day/ABR, Inc.	Seabird/Forage Fish and Related Projects
	99289-BAA	Status of Black Oystercatchers in Prince William Sound	S. Murphy/ABR, Inc.	Nearshore Ecosystem
	99290	Hydrocarbon Data Analysis, Interpretation, and Database Maintenance	J. Short/NOAA	Nearshore Ecosystem
	99298-BAA	Public Brochure on Archaeology at the Alaska SeaLife Center	M. Yarborough/Cultural Resource Consultants	Archaeological Resources
	99300	Synthesis of the Scientific Findings from the Exxon Valdez Oil Spill Restoration Program	R. Spies/Applied Marine Sciences	Ecosystem Synthesis
	99304	Kodiak Island Borough Master Waste Mangement Plan	J. Selby/Kodiak Island Borough	Reduction of Marine Pollution
	99306	Ecology and Demographics of Pacific Sand Lance in Lower Cook Inlet	J. Piatt/USGS-BRD	Seabird/Forage Fish and Related Projects
	99311	Pacific Herring Productivity Dependencies in the Prince William Sound Ecosystem Determined with Natural Stable Isotope Tracers	T. Kline/PWSSC	Pacific Herring
1	99314	Homer Mariner Park Habitat Assessment and Restoration Design Project	J. Cushing/City of Homer	Habitat Improvement
1	95520-CLO	Sound Ecosystem Assessment (SEA)	T. Cooney, et al/UAF	SEA and Related Projects
	99320M	Sound Ecosystem Assessment (SEA): Observational Oceanography in Prince William Sound and the Gulf of Alaska	S. Vaughan/PWSSC	SEA and Related Projects
	99325-BAA	Assessment of Injury to Intertidal and Nearshore Subtidal Communities Following the EVOS: Preparation of Manuscripts for Publication	T. Dean/Coastal Resources Associates, Inc.	Nearshore Ecosystem
	99327	Pigeon Guillemot Restoration Research at the Alaska SeaLife Center	D. Roby/Oregon State Univ.	Seabird/Forage Fish and Related Projects
	99328	Synthesis of the Toxicological and Epidemiological Impacts of the Oil Spill on Pacific Herring	M. Carls/NOAA	Pacific Herring
	99329-CLO	Synthesis of the Toxicological Impacts on Pink Salmon	S. Rice/NOAA	Pink Salmon
	99330-BAA	Mass-Balance Models of Trophic Fluxes in EVOS-Impacted Areas	D. Pauly/UBC, S. Pimm/U. Tenn	Ecosystem Synthesis
	99333	Sea Otter Monitoring	B. Henrichs/Native Village of Eyak	Subsistence
	99335	Construction and Operation of a Sockeye Hatchery in Nanwalek	P. McCollum/Nanwalek	Subsistence
ł		Survival of Adult Murres and Kittiwakes in Relation to Forage Fish Abundance	J. Piatt/USGS-BRD	Seabird/Forage Fish and Related Projects

j.No.	Project Title	Proposer	Resource Cluster
99339	Prince William Sound Human Use and Wildlife Disturbance Model	K. Murphy, L. Suring/USFS	Habitat Improvement
99340	Toward Long-Term Oceanographic Monitoring of the Gulf of Alaska Ecosystem	T. Weingartner/UAF	SEA and Related Projects
99341	Harbor Seal Recovery: Controlled Studies of Health and Diet	M. Castellini/UAF	Marine Mammals
99346	Publication of an Indexed Bibliography of the Genus Ammodytes (Sand Lance)	R. Armstrong/UAA, M. Wilson/USFS, H. Robards/DOI	Seabird/Forage Fish and Related Projects
99347	Fatty Acid Profile and Lipid Class Analysis for Estimating Diet Composition and Quality at Different Trophic Levels	R. Heintz/NOAA	Seabird/Forage Fish and Related Projects
99348	Responses of River Otters to Oil Contamination: A Controlled Study of Biological Stress Markers	M. Ben-David, T. Bowyer, L. Duffy/UAF	Nearshore Ecosystem
99354	Development of Habitat-Based Population Assessment for Nearshore Rockfish Along the Northern Gulf of Alaska	M. Willette/ADFG	Cutthroat Trout, Dolly Varden, and Other Fish
99360-BAA	The <i>Exxon Valdez</i> Oil Spill: Guidance for Future Research Activities	C. Elfring/Polar Research Board, NRC	Ecosystem Synthesis
1-ВАА	Dynamic Graphical Techniques for Ecosystem Synthesis, Communication and Product Delivery	J. Allen/PWSSC, T. Cooney/UAF	Ecosystem Synthesis
99362	Intertidal Invertebrate and Vegetation Communities Associated with NOAA Environmental Sensitive Index (ESI) Mapping Types in Southeast Alaska	D. Rudis/USFWS	Ecosystem Synthesis
99365	Determining the Extent and Magnitude of Straying of Hatchery-Released Pink Salmon in Prince William Sound	T. Joyce/ADFG	Pink Salmon
99366	Improved Salmon Escapement Enumeration Using Remote Video and Time-lapse Recording Technology	E. Otis/ADFG	Pink Salmon
99367	Synthesis and Publication of Fisheries Research	J. Seeb, et al/ADFG	Pink Salmon
99368	Maps Depicting Environmentally Sensitive Areas in Prince William Sound (Summary Seasonal Maps Only)	J. Whitney/NOAA	Ecosystem Synthesis
99369	Maps Depicting Environmentally Sensitive Areas in Prince William Sound (Summary Seasonal and Detailed Maps)	J. Whitney/NOAA	Ecosystem Synthesis
99371	Effects of Harbor Seal Metabolism on Stable Isotope Ratio Tracers	D. Schell/UAF	Marine Mammals
5	Effect of Herring Egg Distribution and Ecology on Year-Class Strength and Adult Distribution	E. Brown, B. Norcross/UAF	Pacific Herring
99376	Distribution and Ecology of Forage Fish and Effects on Herring Year-Class Strength	E. Brown, B. Norcross/UAF	Pacific Herring

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i.No.	Project Title	Proposer	Resource Cluster
99378	Improving Population Models for Herring Management Along the Northern Gulf of Alaska	W. Donaldson, M. Willette/ADFG	Pacific Herring
99379	Assessment of Risk to Residual Oil in Prince William Sound Using P450 Activity in Fishes	J. Jewett/UAF	Nearshore Ecosystem
99381	Status of Seabird Colonies in Northeastern Prince William Sound	M. Bishop/USFS	Seabird/Forage Fish and Related Projects
99382	Exxon Valdez Oil Spill Information-Transfer Workshop for Managers	D. Gibbons/USFS	Ecosystem Synthesis
99383	Distribution Study of Cutthroat Trout and Dolly Varden in Prince William Sound	R. Spangler/USFS	Cutthroat Trout, Dolly Varden, and Other Fish
99387	South Spruce Street Beach Parking	K. Kornelis/City of Kenai	Habitat Improvement
99388	Kenai River Mouth South Side Access and Parking	K. Kornelis/City of Kenai	Habitat Improvement
99391	Cook Inlet/Prince William Sound Information Management/Monitoring System	J. Hock/ADEC, D. Mortenson/ADNR	Reduction of Marine Pollution
99393-BAA	Prince William Sound Food Webs: Structure and Change	T. Kline/PWSSC	SEA and Related Projects
1	Development of Maps Depicting Environmentally Sensitive Areas in Prince William Sound	J. Michaelson, K. Boggs/UAA	Ecosystem Synthesis
99399	Eastern Prince William Sound Human Use and Wildlife Disturbance Model	K. Murphy, L. Suring/USFS	Habitat Improvement
99401	Spot Shrimp: A Population Dynamics Study	C. Hughey/Valdez Native Tribe	Nearshore Ecosystem
99402	Weathered Oil Effects on Sediment Microorganisms	R. Ewing/Biotech, Inc.	Nearshore Ecosystem
99405	Port Graham Salmon Hatchery Reconstruction	E. McMullen/Port Graham Village Council	Subsistence
99406	Field Examination of the Relation Between Phytoplankton Production of Fatty Acids and Uptake in Pacific Sandlance	R. Heintz/NOAA	Seabird/Forage Fish and Related Projects
99408-BAA	Aspects of Salmon Shark Ecology in Alaska Waters	J. Musick, K. Goldman/Virginia Institute of Marine Science	Cutthroat Trout, Dolly Varden, and Other Fish
99409	Investigations of Salmon Shark Diet and Predation on Injured Resources in Prince William Sound	A. Brase/NOAA	Cutthroat Trout, Dolly Varden, and Other Fish
99410	Lower Cook Inlet Youth Area Watch	L. Elvsaas/Seldovia Village Tribe	Subsistence
99411	Juvenile Herring and Walleye Pollock Overwintering During an El Nino Event	K. Stokesbury, A.J. Paul/UAF	Pacific Herring
ō	Prince William Sound/Kodiak Waste Management Community Awareness Training Video and Manual	K. Merrell/PWSEDC, K. Hartwell/Wild North Productions	Reduction of Marine Pollution
99416	O'Brien Creek Restoration	J. Christensen/Chenega Bay IRA	Subsistence

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<u>i.No.</u>	Project Title	Proposer	Resource Cluster
99423	Pattern and Processes of Population Change in Selected Nearshore Vertebrate Predators	J. Bodkin, D. Esler/DOI, D. Rosenberg/ADFG	Nearshore Ecosystem
99424	Restoration Reserve	All Trustee Council Agencies	Restoration Reserve
99425	Description of Rockfish Distribution and Habitat Preference Based on Underwater Video From Prince William Sound and Surrounding Areas	A. Brase/NOAA	Cutthroat Trout, Dolly Varden, and Other Fish
99431	Prototype Modeling Products: Transition, Alpha Testing, and Benefit-to-Cost Analysis for Products From Project /320	V. Patrick/PWSSC	SEA and Related Projects
99432	Proximate and Ultimate Effects of Crude Oil on the Intertidal Fish, High Cockscomb	A.J. Paul/UAF	Nearshore Ecosystem
99434	East Amatuli Island Remote Video Link Project	M. O'Meara/Pratt Museum	Seabird/Forage Fish and Related Projects
99435-BAA	Oceanography of Prince William Sound	S. Vaughan/PWSSC	SEA and Related Projects
99436-BAA	Oceanography of Prince William Sound Bays and Fjords: Effects of the 1997-98 El Nino	S. Vaughan/PWSSC	SEA and Related Projects
99437	Selecting and Propagating Local Spruce Resistant to the Tree Killing Spruce Beetle	J. Alden/UAF	Habitat Improvement
558-BAA	Post-El Nino Changes in the Pacific Herring and Walleye Pollock Biomass in Prince William Sound	G. Thomas, J. Kirsch/PWSSC	Pacific Herring
99439-BAA	Acoustic Assessment of Pink Salmon Predators, Macrozooplankton Prey and Juvenile Herring in Prince William Sound	G. Thomas/PWSSC	SEA and Related Projects
99441-BAA	Harbor Seal Recovery: Effects of Diet on Lipid Metabolism and Health	R. Davis/Texas A&M Univ.	Marine Mammals
99442-BAA	Population Trends and Productivity of Kittlitz's Murrelet in Prince William Sound	R. Day/ABR, Inc.	Seabird/Forage Fish and Related Projects
99443-BAA	Salmon Fisheries Market Share and Market Value Recovery Program	C. Shaw, R. Kopchak/Cordova District Fishermen United	Pink Salmon
99444	Community-Based Harbor Seal Research	M. Riedel/Alaska Native Harbor Seal Commission	Subsistence
99448	Evaluating Recovery of Coastal River Otters: Gender-Specific Response to the Oil Spill	M. Ben-David, T. Bowyer/UAF	Nearshore Ecosystem
99455	An Investigation of the Data System for the EVOS Long Term Monitoring Program	C. Falkenberg/ECOlogic Corp.	Ecosystem Synthesis
99456	Evaluating Scientific Sampling Conducted During the Oil Spill, Synthesizing Lessons Learned, and Incorporating Them into Natural Resource Injury Assessments	A. Crook/ADEC	Ecosystem Synthesis
99459	Residual Oiling of Armored Beaches and Mussel Beds in the Gulf of Alaska	G. Irvine/USGS-BRD	Nearshore Ecosystem

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i.No.	Project Title	Proposer	Resource Cluster
99462	Effect of Disease on Pacific Herring Population Recovery in Prince William Sound	G. Marty/Univ. of California, Davis	Pacific Herring
99463	Ecological Significance of Juvenile Herring Diseases and Their Effect on Subsequent Spawner Recruitment in Prince William Sound and Southeast	R. Kocan/Univ. of Washington, J. Winton/USGS-BRD	Pacific Herring
99464	Physiological Condition of Juvenile Harbor Seals: Impacts of Age and Morphology	J. Burns/UC Santa Cruz	Marine Mammals
99466	Recovery Status of Barrow's Goldeneyes	D. Esler/USGS-BRD	Nearshore Ecosystem
99467-BAA	Assessment of the Interannual Variability of Pelagic Production in Prince William Sound	G. Thomas/PWSSC	SEA and Related Projects
99468-BAA	FEATS: Fundmental Estimations of Acoustic Target Strength	J. Kirsch, G. Thomas/PWSSC	Pacific Herring
99470	Symposium on the 10th Anniversary of the <i>Exxon</i> <i>Valdez</i> Oil Spill	Restoration Office	Administration, Science Management, and
99471	Updating the Status of Services Reduced or Lost Due to the Oil Spill	Restoration Office	Public Info. Administration, Science Management, and
D ,	Growth Rates of Cutthroat Trout and Dolly Varden in Prince William Sound: Comparison of Populations in Oiled and Unoiled Sites	G. Reeves, D. Markle/USFS	Public Info. Cutthroat Trout, Dolly Varden, and Other Fish
99474	Endowment of the Environmental Restoration Center at the University of Alaska Anchorage	G. Baker, H. Schroeder/UAA	Research Facilities
99476	Effects of Oiled Incubation Substrate on Pink Salmon Reproduction	R. Heintz/NOAA	Pink Salmon
99479	Effects of Food Stress on Survival and Reproductive Performance of Seabirds	J. Piatt/USGS-BRD, A. Kitaysky/Univ. of Washington	Seabird/Forage Fish and Related Projects
99480	Abundance and Reproductive Success of Black Oystercatchers in Prince William Sound	B. Andres/USFWS	Nearshore Ecosystem
99483	Seldovia Coho Salmon Enhancement	L. Elvsaas/Seldovia Village Tribe	Subsistence
99484	Construction of Chignik Lake Subsistence Building and Repair of Sod House	V. Aleck/Chignik Lake Village Council	Subsistence
99485	Port Graham Youth Subsistence Education Project	E. McMullen/Port Graham Village Council	Subsistence
99488	A Computerized Colony, Environment and Seabirds-at-Sea Database (ACCESS)	J. Piatt/USGS-BRD, G. Ford/Ecological Consulting, Inc.	Seabird/Forage Fish and Related Projects
9	Crude Oil Exposure Effects on Salmon Smolts	S. Ebbesson/UAF	Pink Salmon
J1-BAA	Effects of Natural Oil Seeps on Pink Salmon	E. Brannon/Univ. of Idaho	Pink Salmon

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<u>i.No.</u>	Project Title	Proposer	Resource Cluster
99495	Soldotna Swiftwater Park Recreational Access and Habitat Restoration Project	S. Bonebrake, D. Bower/City of Soldotna	Habitat Improvement
99496	Soldotna Centennial Park Uplands Access Trail Project	S. Bonebrake, D. Bower/City of Soldotna	Habitat Improvement
99497	Subsistence Processing Building/Biosampling Facility	J. Christensen/Chenega Bay IRA Council	Subsistence
99502	Subsistence Meeting Hall	B. Henrichs/Native Village of Eyak	Subsistence
99503	Restoration of Orca Inlet	B. Henrichs	Subsistence
99507	Nuchek Subsistence Camp	B. Henrichs/Native Village of Eyak	Subsistence
99508	Copper River Salmon Run Data Improvement Project	B. Henrichs/Native Village of Eyak	Subsistence
99514	Marine Pollution Reduction for Nanwalek and Port Graham	E. McMullen/Port Graham Village Council	Reduction of Marine Pollution
99515	Lower Kenai Peninsula Regional Chronic Marine Oil Pollution Project	M. Mayo/TLI Systems, Inc.	Reduction of Marine Pollution
99517	Prince William Sound Regional Cultural and Eco-Tourism Center	F. Irick/Kueuit Foundation, Inc.	Recreation and Tourism
1	Lower Cook Inlet Salmon Ecology Pilot Study	P. McCollum/Nanwalek	Subsistence

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
Pink Salmon							
99139A2	Port Dick Creek Tributary Restoration and Development	W. Bucher/ADFG	ADFG	Cont'd 4th yr. 5 yr. proje	\$76.5 ect	\$85.8	\$147.8
This project took place ir and stream sedimentolo evaluation s	will restore the native Port Dick Creek salmon stocks which n June 1996. Natural colonization rates were adequate to ful velocity will be monitored as these parameters are well corre gic parameters (bedload transport, accumulated sediments, tudies will be conducted annually from 1996 to 2000, with po	were exposed to moderate to heavy oiling. Ily seed the newly restored spawning habit elated in the literature with spawning succe and gravel/cobble transport rates) will also possible extension of minor monitoring throug	Actual re at. Water ss and eg be analyz gh 2002 fo	storation o temperatur g-to-fry sur zed. These or streambe	f the spawni re, water lev vival. Additi activities as d stability re	ng habitat el, salinity onal s well as esearch.	,
99188-CLO	Otolith Thermal Mass Marking of Hatchery Reared Pink Salmon In Prince William Sound	T. Joyce/ADFG	ADFG	Cont'd 5th yr. 5 yr. proje	\$182.9 ect	\$119.9	\$119.9
This project returning to through 199 pink salmon were provide scheme was	closes out the Trustee Council's support for development of Prince William Sound. The otoliths of all pink salmon reared 8. Blind tests were conducted to determine the ability of otol commercial fisheries, approximately 100 otoliths were proce ed to fishery managers within 36 hours of the closure of a fis s invoked to maximize sampling efficiency.	otolith mass marking as a technology for id I at Prince William Sound hatcheries were t lith readers to successfully determine the o essed from each fishery opening to estimat hing period. In post-season analysis, a Ba	dentification hermally r rigin of ran e stock co yesian dy	on of hatche marked in t ndomly sele imposition. namic sam	ery pink saln he fall from ected otolith Generated ple size allo	non 1995 s. During estimates cation	
99190	Construction of a Linkage Map for the Pink Salmon Genom	ne F. Allendorf/Univ. Montana	ADFG	Cont'd 4th yr. 5 yr. proje	\$187.0 ect	\$187.3	\$374.6
This project linkage map disease resi marine survi estimate gei	will complete a genetic linkage map for pink salmon in FY 98 to test for organismal effects of molecular markers on phene stance). These studies will aid recovery efforts with pink sal ival has a genetic basis. The tests for natural selection on m ne flow in pink salmon and other marine species.	8. In FY 99, experiments will be continued otypes that are likely to affect fitness in pini lmon, including estimation of straying rates nolecular markers have broad significance	at the Ala k salmon (, description for the use	ska SeaLife e.g., surviv on of stock e of molecu	e Center tha val, growth, a structure, a lar genetic r	t use the and nd testing narkers to	if

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 F Request F	Request Y99-02
99191A-CLO	Field Examination of Oil-Related Embryo Mortalities in Pink Salmon Populations in Prince William Sound	M. Willette/ADFG	ADFG	Cont'd 8th yr. 8yr. proje	\$58.7 ct	\$58.9	\$58.9
Elevated en persisted an developmen capacity of p streams. Th	nbryo mortalities were detected in populations of pink salmon inhanually through the 1993 field season, suggesting that genetic danatal life-stages. The consequences of this putative genetic damage populations. The 1994, 1995, and 1996 field results show no state purpose of this project is to monitor the recovery of pink salmon	abiting oiled streams following t mage may have occurred as a ge include physiological dysfun tistical difference in embryo mo on embryos in the field. This is	the oil spill. Thes result of exposur ction of individua rtality between oi the final close-ou	e increased e to oil durir ls and reduc l-contamina t year for th	rates of mo ng early ced reprodu ted and refe e project.	ortality ctive erence	
99196-CLO	Genetic Structure of Prince William Sound Pink Salmon	C. Habicht/ADFG	ADFG	Cont'd 6th yr. 6 yr. proje	\$50.0	\$50.0	\$50.C
Previous wo structure of managemer restricted bo and the stat	ork found that wild-stock pink salmon suffered direct lethal and su pink salmon in Prince William Sound is essential to assess the in nt strategies for sustained conservation. Results to date from this oth spatially (regional and upstream-tidal) and temporally (early-la istical analysis of year-three allozyme and mtDNA data.	blethal injuries as a result of the npact of these injuries on a pop s study suggest gene flow betw ate) within the sound. This prop	e oil spill. An und oulation basis and een pink salmon posal covers the f	lerstanding to devise a spawning a inal year of	of the popu nd impleme ggregates o laboratory a	lation ent can be analysis	
99329-CLO	Synthesis of the Toxicological Impacts on Pink Salmon	S. Rice/NOAA	NOAA	Cont'd 2nd yr. 2 yr. proje	\$51.8	\$52.5	\$52.5
This project Council-spo (Project /194 (Projects /07 conclusions the Trustee	will synthesize results of all Trustee Council sponsored studies r nsored projects have individually advanced understanding of the 4), effects on egg/embryo survival (Project /191A&B), juvenile fee 76 and /209), and the possibility that effects are heritable (Project regarding the injury to and subsequent recovery of pink salmon. Council studies.	elated to the toxicological dama effects of the oil spill on pink sa eding and growth (Project R4), i t /228). Data from these studie The results of contracted stud	age to pink salmo almon: past and marine survival a s will be drawn u ies by Exxon Cor	n. Since 19 present pot nd straying pon in order poration wil	989, seven s ential for oil of returning to construc I be compa	separate exposure adults ot synthetic red with	

							Total
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99365	Determining the Extent and Magnitude of Straying of Hatchery-Released Pink Salmon in Prince William Sound	T. Joyce/ADFG	ADFG	New 1st yr. 3 yr. proj	ject	\$147.6	\$438.7
This proje sampled f by specifi escapeme study will	ect will estimate the magnitude and extent of straying for the odd-ye from pink salmon carcasses in randomly selected streams located ic thermal marks applied to fry at the four Prince William Sound pin ents comprised of spawning hatchery pink salmon will be estimated be repeated in FY 00 to evaluate straying for the even-year class.	ear class of hatchery-released p within each of the major fishing k salmon hatcheries in the fall o d by area, stream zone (tidal vs	pink salmon in Prin districts. Otoliths of 1997. The prop s. upstream) and fo	nce Willian s of hatche ortion of P or the sour	n Sound. Ot ry origin will rince William nd as a whole	oliths will b be identifie Sound e. The	e d
99366	Improved Salmon Escapement Enumeration Using Remote Video and Time-lapse Recording Technology	E. Otis/ADFG	ADFG	New 1st yr. 3 yr. proj	ject	\$60.0	\$125.6
Salmon re monitor th remote vid document be retrieve	esources and services within the spill area, and particularly within f he recovery of salmon stocks in the spill area and improve escape ideo and time-lapse recording technology for enumerating salmon e tation of salmon escapements well beyond the capacity of aerial su red and reviewed weekly to facilitate in-season management of cor	Prince William Sound, were inju ment information used to set sp escapement. Remote video has urvey indices, and well below th mmercial fisheries.	red by the oil spill bawning escapem s the potential to p he cost of weir and	and have ent goals, provide acc I sonar pro	not fully reco this project v curate, archiv jects. Video	overed. To vill develop vable tapes can	
99367	Synthesis and Publication of Fisheries Research	J. Seeb, et al/ADFG	ADFG	New 1st yr. 4 yr. pro	ject	\$53.2	\$230.2
The Amer in the Gul stand-alor synthesis ADFG sta America.	rican Fisheries Society (AFS) has agreed to work with ADFG to sy If of Alaska spill zone. Many EVOS reports written by ADFG staff p ne publications, and some contain information suitable for more that and editing are needed to move these from report status to public aff to synthesize research reports into manuscripts that will then un	nthesize, edit, and publish the le provide key information on injur- an one article or are too bulky for ation in peer-reviewed literature adergo peer review for considera	egacy of research ed resources. Ho or publication in th e. In this project, / ation in the leading	o conducted wever, som heir current AFS editori g fisheries	d on fisheries me do not for t form. Addit ial staff will w journals in N	s resources rm ional vork with lorth	5

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99443-BAA	Salmon Fisheries Market Share and Market Value Recovery Program	C. Shaw, R. Kopchak/Cordova District Fishermen United	NOAA	New 1st yr.	t	\$691.9	\$1,224.4
The project adversely i	t will develop a long-term marketing program designed to enhance mpacted by the oil spill.	the value and market share of comr	mercially ha	rvested sa	Imon that we	ere	
99476	Effects of Oiled Incubation Substrate on Pink Salmon Reproduction	R. Heintz/NOAA	NOAA	New 1st yr. 3 yr. proj	ect	\$74.1	\$173.1
This project objective is Project /19 streams. T viability is i still require oiled grave	et will examine the effects of oil exposure during embryonic develo s to determine if exposure to oil during incubation could explain the 1A. In that study gametes taken from pink salmon returning to oile These data suggest a dramatic effect of oil on vertebrate reproduct indicated by the effects demonstrated by project /191B, which inclus s unequivocal demonstration. This study is designed to make the el.	opment on the gamete viability of pink e reduced gamete viability reported for ed streams had higher mortality rates tion that has not previously been des ude reduced marine survival and grow demonstration and complete a mode	k salmon the or pink salm than game cribed. The wth of return el of life cyc	at survive t on in Princ etes taken t e plausibilit ning adults le impacts	to spawn. T te William So from salmon y of reduced . However, from incuba	he bund unde in unoiled gamete this effect ting eggs	r i
99489	Crude Oil Exposure Effects on Salmon Smolts	S. Ebbesson/UAF	ADFG	New 1st yr. 4 yr. proj	ect	\$107.0	\$472.9
Crude oil e project will systems ar	xposure has previously been shown to alter thyroid hormone level determine to what extent exposure to crude oil affects neural and re vital for survival in the sea and return to natal stream. These stu	ls differently in fish, depending on the endocrine systems during and after a udies will provide information regarding	e species ar smoltifications smoltifications	nd develop n. The no ict, if any. c	mental stage rmal change of crude oil e	e. This es in these exposure o	n

salmon during this critical period of development, which may explain survival and return-rate problems following the oil spill.

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 F Request F	Request Y99-02
99491-BAA	Effects of Natural Oil Seeps on Pink Salmon Incubation Success and Condition	E. Brannon/Univ. of Idaho	NOAA	New 1st yr. 1 yr. proj	ect	\$204.4	\$204.4
Two princip scientists b in streams assess its e that this stu	ble differences of opinion exist about the effects oil had on incub relieve that significant progress can be made toward understand that have a history of exposure to oil from natural oil seeps. Re- effect on egg viability, embryo survival, and molecular aberration udy will serve to help in understanding the immediate and long-te	ating pink salmon embryos in Prince W ling the effects of oil on pink salmon by search examining the effects of natural ns under conditions of persistent expose erm effects of oil on pink salmon subject	filliam Soun examining oil seeps c ure of previ ct to oil spil	d streams. incubating on pink salr ous genera ls.	The contrit and adult pi non is desig ations. It is a	outing nk salmon ned to anticipated	
Pacific Herrir	ng		<u></u>				
99162A	Investigation of Disease Factors Affecting Declines of Pacific Herring Populations: Manuscripts/Conference Attendance (Part A)	R. Kocan/Univ. of Washington	ADFG	Cont'd 5th yr. 4 yr. proj	ect	\$58.6	\$58.6
This project subjects and serologic co Additional p anticipated,	t will prepare at least five manuscripts dealing with the research e covered by the existing data: 1) survival of viral hemorrhagics onversion and immunity in wild herring following an epizootic of publications on the effect of net pens on VHS transmission and t , depending on results of FY 98 studies.	activities funded by the Trustee Counc septicemia (VHS) virus in sea water, 2) VHS, and 4) age-related immunity dem the presence of VHS-RNA in wild herrin	il under Pro the natura onstrated in g tissues a	oject /162. I history of In laborator Is demonst	At least five VHS in wild y-reared her rated by PC	additional herring, 3) ring. R are	
99162B	Investigations of Disease Factors Affecting Declines of Pacific Herring Populations: Manuscripts/Conference Attendance (Part B)	J. Kennedy/Simon Fraser Univ.	ADFG	Cont'd 5th yr. 4 yr. proj	ect	\$13.4	\$13.4
This project fitness. The role in popu to determin	t will publish and present manuscripts of the results of Project / e effects of Viral Hemorrhagic Septicemia Virus (VHSV), <i>Ichthyc</i> ulation declines experienced by Pacific herring populations in Pr e the effects of biochemistry, immunocompetence, performance	162 as they relate to effects of environr ophonus hoferi (ITP), and hydrocarbon ince William Sound in 1993 and 1994. e and reproduction.	nental cont exposure v Both adult	amination vere exami and juvenil	and disease ned to deter le herring we	on herring mine their ere used	

Total

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99311	Pacific Herring Productivity Dependencies in the Prince William Sound Ecosystem Determined with Natural Stable Isotope Tracers	T. Kline/PWSSC	ADFG	Cont'd 2nd yr. 2 yr. proj	\$80.6 ect	\$104.5	\$104.5
The advec herring. T changes ir affects her series ava	ctive regime connecting the northern Gulf of Alaska (GOA) with Prin The Sound Ecosystem Assessment (SEA) project (\320) has shown in carbon flow occurring between GOA and Prince William Sound. rring recruitment is to isotopically analyze a time series of herring for alable from SEA providing a total four-year time period.	nce William Sound may affect recruit n that herring have significant depend The first step in understanding how f or which energetic data have been c	ment and nu dence on GC this fundame ollected. Th	utritional pr DA carbon ental enviro is will expa	ocesses in F Herring are onmental pro and upon the	Pacific e subject to cess e data	
99328	Synthesis of the Toxicological and Epidemiological Impacts of the Oil Spill on Pacific Herring	M. Carls/NOAA	NOAA	New 1st yr. 1 yr. proj	ect	\$79.3	\$79.3
This project compare T morpholog monograp	ct will synthesize results of toxicological and epidemiological dama Trustee-sponsored conclusions to those of Exxon investigators. Ex gical and cytogenetic abnormalities, reduced growth, and immunos h for publication will be prepared and presented at the 10th annive	ge to Pacific herring (but not the eco VOS researchers concluded that exp uppression in adults, but that effects rsary symposium.	logical rese posure to oil on the pop	arch still in caused eg ulation leve	progress), a g mortality, I did not dec	and rease. A	
99375	Effect of Herring Egg Distribution and Ecology on Year-Class Strength and Adult Distribution	E. Brown, B. Norcross/UAF	ADFG	New 1st yr. 2 yr. proj	ect	\$90.3	\$138.5
This project distributior in Prince V companior	ct will examine the effect of Pacific herring egg distribution and abunn. Existing data will be used in the analysis. The findings of this st William Sound. This information will facilitate area-specific targeting n proposal, Distribution and Ecology of Forage Fish and Effects on	undance as well as oceanographic pl tudy will aid in understanding stock s g of catches and provide scientific do Herring Year-Class Strength (Projec	rocesses on tructure and ocumentatio ct 99376), h	year-class population n of unpub as also bee	s strength an n dynamics o lished fisher en submitted	d adult of herring y data. A	

							Total
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99376	Distribution and Ecology of Forage Fish and Effects on Herring Year-Class Strength	E. Brown, B. Norcross/UAF	ADFG	New 1st yr. 4 yr. proj	ect	\$153.6	\$618.6
This project are included strength and on existing	ct will improve our understanding of trends in abundance of juveni ed: 1) framing the distribution of fish in an oceanographic context nd adult distribution, and 3) continued collection of field data need g data. Geostatistical analyses and general additive models will b	ile Pacific herring, sandlance, capelin, t, 2) examining how juvenile herring at ded for analysis of longer-term trends. be used to report significant findings.	, and eulach oundance ar This projec A long-term	on. Sever nd distribut ct is cost ef monitoring	al project ob ion affects y fective since scheme is p	jectives ear-class e it builds proposed.	
99378	Improving Population Models for Herring Management Along the Northern Gulf of Alaska	W. Donaldson, M. Willette/ADFG	6 ADFG	New 1st yr. 3 yr. proj	ect	\$384.3	\$970.1
Pacific her William Sc biomass a spawning estimating	rring is a key species in the marine ecosystem affected by the oil sound are currently recognized in the spill-impacted area along the and set harvest levels for these stocks require estimates of catch a biomass. This project will develop better tools for 1) identifying di spawning biomass. Project results will be applied by managers t	spill. Three herring stocks spawning a northern Gulf of Alaska. The age-stru- at age in all fisheries exploiting a stock iscrete stocks of herring in mixed-stock to improve the population models use	at Kodiak Is uctured ana k, gear selec k fisheries, d to set han	land, Kami lysis mode ctivity, weig 2) projectir vest levels.	shak Bay, ai Is used to pr ght at age, ai ng weight at	nd Prince roject nd age, and 3)
99411	Juvenile Herring and Walleye Pollock Overwintering During an El Nino Event	K. Stokesbury, A.J. Paul/UAF	ADFG	New 1st yr. 3 yr. proj	ect	\$199.6	\$598.8
El Nino ev by physica 1998 El Ni This hypot nursery ar	ents are sources of thermal perturbations that marine organisms al and biological conditions occurring during the juvenile phase; o ino event could bring about herring and pollock prey availability flu thesis will be tested by comparing relative abundance, distribution reas before, during, and after the El Nino event.	must adapt to. Year class strength of overwintering conditions appear to be uctuations and shifts in metabolic rate n, whole body energy, and feeding eco	herring and critical. This s, thus alter blogy of juve	l pollock an s project's l ing nutrition nile herring	re strongly in hypothesis is nal status an g and polloci	ifluenced s that the id survival k in	

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99438-BAA	Post-El Nino Changes in the Pacific Herring and Walleye Pollock Biomass in Prince William Sound	G. Thomas, J. Kirsch/PWSSC	NOAA	New 1st yr. 2 yr. proje	ect	\$211.8	\$411.8
This projec recruitment will work wi	t will conduct post-El Nino surveys of prespawning herring and po t anomalies that occur after 1997. Estimates of herring and polloc ith these management agencies to evaluate changes occurring to	bllock in their winter refuges in FY 99. ck abundances will be provided to NOA the populations since El Nino.	These sur ∖A, ADFG,	veys will aid and local f	d the assess ish process	sment of ors. We	
99462	Effect of Disease on Pacific Herring Population Recovery in Prince William Sound	G. Marty/Univ. of California, Davis	ADFG	New 1st yr. 3 yr. proje	ect	\$75.1	\$238.4
The Pacific fungus <i>Icht Ichthyopho</i> determine i Pacific herr	herring population of Prince William Sound has not recovered fro thyophonus hoferi were identified as the two main diseases during nus decreased after 1995, but an unexpected increase in the pre- f disease continues to impair recovery, and to document recovery ring in Prince William Sound twice annually, from October 1998 th	om severe population decline in 1993. g a multi-year research project that is in valence of viral hemorrhagic septicem y when it occurs, this project will monite prough April 2001.	Viral hemo n its final y ia virus in or prevaler	orrhagic se ear (Projec 1997 might nce of the to	pticemia viru t /162). Pre delay recov wo major dis	us and the valence o ery. To seases in	f
99463	Ecological Significance of Juvenile Herring Diseases and Their Effect on Subsequent Spawner Recruitment in Prince William Sound and Southeast Alaska	R. Kocan/Univ. of Washington, J. Winton/USGS-BRD	ADFG	New 1st yr. 2 yr. proje	ect	\$94.1	\$192.0
This projec evaluated t supply, hea constant th future recru	t will examine morbidity and mortality in juvenile herring as popula by culturing tissues, examining plasma antibodies, identifying path avy predatory activity and ultimately, recruitment. Geographically roughout an area, or vary by location, thus resulting in different re uitment predictions.	ation-limiting factors which affect spaw nogen nucleic acids by PCR and correl isolated populations will be compared ecruitment rates. Ultimately, estimates	ner recruit lating chan to determi of juvenile	ment. Dise ges over tig ne whether mortality v	ease factors me with low r disease lev will be correl	will be food vels are ated with	

Total

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd E	FY99 Expected	FY99 Request I	Request =Y99-02
99468-BAA	FEATS: Fundmental Estimations of Acoustic Target Strength	J. Kirsch, G. Thomas/PWSSC	NOAA	New 1st yr.		\$213.5	\$213.5
To scale ac	coustic survey data from relative units (dB) to absolute units (kg/m3), knowledge of the individual fish's	target stren	2 yr. project igth (TS) is re	: quired. T	his project	

will conduct experiments to measure the TS of several dominant fish species in Prince William Sound. FY 99 will concentrate on the development of experimental apparatus, experimental logistics and the application of these to measure Pacific herring TS. If desired, a second year of research may be added which will apply these procedures to other species: walleye pollock, capelin, and sandlance. TS-to-length regressions will be calculated and applied to past surveys in Prince William Sound to obtain more accurate density and biomass estimates, and will serve future acoustic survey efforts of these species in coastal Alaska.

SEA and Rel	lated Projects						
99195	Pristane Monitoring in Mussels	J. Short, P. Harris/NOAA	NOAA	Cont'd 4th yr. 5 yr. proje	ect	\$96.7	\$321.7
This projec forage fish conditions o	t will monitor pristane in mussels through the spring producti on <i>Neocalanus spp.</i> zooplankton. This index may provide a during the early marine residence portions of their life-cycles	ion cycle as an indirect index of predatio forecast of poor recruitment for pink sal	n by juvenile s mon or herring	salmon, hei g caused b	rring, and ne y poor feedii	arshore ng	
99320-CLO	Sound Ecosystem Assessment (SEA)	T. Cooney, et al/UAF	ADFG	Cont'd 6th yr. 6 yr. proje	\$755.2 ect	\$744.0	\$760.1
This projec Sound. Su SEA synthe principal in page charg	t is an integrated, multi-component study of processes influe pport in FY 99 provides the means to close out the program esis volume written as a single journal volume for the journal vestigators to address revisions to reports and manuscripts i ges that hang over into FY 00. These tasks will be supervise	encing the annual survival of juvenile pinl . Program close-out includes the submis Fisheries Oceanography. Project supp in FY 99. A nominal amount is signaled ed by an in-house SEA editor and the SE	 salmon and ssion of a singort will also pr to the Trustee A Lead Scien 	herring rea gle, integrat ovide the n es for clean tist.	ring in Princ ed Final Rep neans for inc up of revisio	e William port and a lividual pns, and	

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Reques	Request FY99-02
99320M	Sound Ecosystem Assessment (SEA): Observational Oceanography in Prince William Sound and the Gulf of Alaska	S. Vaughan/PWSSC	ADFG	Cont'd 6th yr.		\$76.4	\$76.4
The model used for hy the amoun testing.	l validation portion of 97320M/SEA - Observational Oceanography ypothesis testing by any of the SEA projects. Funds were remaini t remaining in FY 97, to cover salaries of personnel responsible fo	v has not been completed. Modeling in the 97320M budget at the e or circulation model validation and	validation is rea nd of the year. I zooplankton se	quired befor This propos eding/flushi	e the mode al is for fur ing hypothe	el can be nding, in esis	
99340	Toward Long-Term Oceanographic Monitoring of the Gulf of Alaska Ecosystem	T. Weingartner/UAF	ADFG	Cont'd 2nd yr. 4 yr. proje	\$85.8 ct	\$92.0	\$230.4
The 28-yea variability t variability o This inform long-term,	ar time series of temperature and salinity data from hydrographic s that could influence the Gulf of Alaska shelf ecosystem. This prog of this shelf. A related goal is to resolve better the time and vertica nation will aid in assessing progress in the recovery and restoratio cost-effective ecosystem monitoring program for this shelf.	station GAK1 near Seward shows ram will continue this time series al structure of this variability at pe n of organisms and services affe	s substantial inte and quantify the riods ranging fro cted by the oil s	erannual and e interannua om the tidal pill, and will	d interdeca al and interd to the inter aid in desig	dal decadal annual. gning a	
99393-BAA	Prince William Sound Food Webs: Structure and Change	T. Kline/PWSSC	NOAA	New 1st yr. 4 yr. proje	ct	\$221.7	7 \$837.0
Recent res and nutritic (1) conduc coupling fre	search has shown that the advective regime connecting the northe onal processes in fishes. Accordingly, food webs are subject to ch at retrospective analysis of GOA production shifts since the oil spill om the 1997 - 98 ENSO event, (4) address a benthos data gap, a	ern Gulf of Alaska (GOA) with Prin nanges in carbon flow occurring b I, (2) address Ecopath model valio Ind (5) expand the isotopic databa	nce William Sou etween GOA ar dation data gap ase domain in s	nd (PWS) m nd PWS. Th s, (3) find ev pace and tin	hay affect re his project s vidence of b he.	ecruitmer seeks to: biophysica	t al

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 F Request F	Request FY99-02
99431	Prototype Modeling Products: Transition, Alpha Testing, and Benefit-to-Cost Analysis for Products From Project /320	V. Patrick/PWSSC	NOAA	New 1st yr. 1 yr. proj	ect	\$338.8	\$338.8
Throughout the restorat project plan benefit-to-c constituenc	t the implementation of the Restoration Plan, the Trustee Council I tion projects into applications with long term, continuing utility and in identifies a first set of restoration results that in FY 99 will be app ost ratio for any set of the applications. This project will configure by, the goal being economically viable products and support system	has expressed the objective of f benefit for the spill-effected region propriate for application prototyp a selected set of products for p m based on a strong benefit-to-o	ully developing t on. This project ing and performa rototyping and ta cost ratio.	he findings will addrea ance trials. arget a ma	and techno ss that objec A pivotal is ximally broad	logies of tive. The sue is the d	
99435-BAA	Oceanography of Prince William Sound	S. Vaughan/PWSSC	NOAA	New 1st yr. 2 yr. proj	ect	\$210.0	\$393.1
Oceanogra predictable source for r documented processes, physical and to relate pla	phic measurements in 1994-97 showed that some aspects of the and geostrophic. More variability exists in the months before, dur many species of juvenile fish, the general health of the sound depend d seasonal and some interannual relationships between zooplank such as El Nino or regime shifts, were not addressed. To unders d biological oceanographic properties needs to be created. This p ankton distribution and abundance to physical processes on longe	circulation and water mass prop ring, and after the peak zooplan ends on the abundance and ava ton abundance and physical pro tand plankton variability on inter proposal will implement a protot or time scales.	perties of Prince kton bloom. Sin ailability of zoopla pcesses, but the annual and deca ype measureme	William So ce zooplar ankton. Th effects of I adal time s nt system i	und are fairly Ikton are a m le SEA proje onger time s cales, a time n Prince Wil	y najor food ct (/320) cale series of liam Sour	d
99436-BAA	Oceanography of Prince William Sound Bays and Fjords: Effects of the 1997-98 El Nino	S. Vaughan/PWSSC	NOAA	New 1st yr. 3 yr. proj	ect	\$103.5	\$313.3
Strong warr dry atmospl have been complex an zooplanktor water mass	m episode El Nino conditions, comparable to the 1982-83 episode heric conditions and unusually warm ocean waters are present all collected for four bays in Prince William Sound since 1995. Wate in seasonally variable. Recently, it has been hypothesized that wa n abundance and juvenile herring metabolic rates, thus altering the properties (temperature and salinity), current velocities, zooplane	e, have persisted in the tropical e ong the entire southern coast of r mass properties and currents i ater mass changes associated v eir nutritional status and surviva kton densities, and fluorescence	eastern Pacific s Alaska. Couple in these bays ha with the 1997-98 I. This proposal in FY 99, FY 00	ince 1997. d biologica ve been fo El Nino ev will contin , and FY 0	Abnormally al and physic und to be ex rent could aff ue measurer 1.	warm an al data tremely fect nents of	d
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 F Request F	Request Y99-02
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99439-BAA	Acoustic Assessment of Pink Salmon Predators, Macrozooplankton Prey and Juvenile Herring in Prince William Sound	G. Thomas/PWSSC	NOAA	New 1st yr. 2 yr. projec	t	\$74.9	\$235.4
This project William Sou and analytic Nekton and budgeted fo funds after	t will support the processing, analysis and reporting of FY 96-97 s and. This request is consistent with other projects (/320M, Ocear cal work that occurred with the expansion of the Juvenile Herring Plankton Acoustics project (/320N) has been delayed because o or the Nekton and Plankton Acoustics Project but were undersper requesting a non-cost extension.	surveys of salmon predators, mac nography and /320I, Isotopes) whi Growth and Habitats project (/320 of this increased work load. Also, nt in FY 96-97. We were asked to	rozooplankton ch have been c DT). Scheduled the funds that a submit a new p	prey and juve ompensated I analysis and are requested proposal to re	enile herrir for additio d reporting d were orig ecapture t	ng in Prince onal field g of the ginally hese	
99467-BAA	Assessment of the Interannual Variability of Pelagic Production in Prince William Sound	G. Thomas/PWSSC	NOAA	New 1st yr. 2 yr. projec	t	\$272.4	\$539.9
The Sound natural caus (circulation plankton for collected wi developmer	Ecosystem Assessment project (/320) has developed the first g ses so that they can be separated from anthropogenic causes, s and plankton) and a nekton model. This project will initiate a pro r input to the physical-biological model, and will measure macroz th remote sensors and on a vessel of opportunity to make the m and of second generation models that can be used by managemen	eneration of models to predict pini uch as oil spills. The two models ogram that will systematically mean ooplankton and pelagic nekton as odel-based monitoring very cost-ent to now-cast population changes	k salmon popula developed are a sure weather co input to the nel effective. These of key resource	ation change a physical-bio onditions, phy kton model. e data are es es in Prince \	s as a res ological mo vsical cond These dat sential for William So	ult of odel ditions and ta will be the ound.	
Cutthroat Tro	ut, Dolly Varden, and Other Fish						
99043B-CLO	Monitoring of Cutthroat Trout and Dolly Varden Habitat Improvement Structures	D. Gillikin/USFS	USFS	Cont'd 6th yr. 6 yr. projec	\$8.0	\$9.5	\$9.5
This project under Proje increasing c previous pre	will prepare the final report and analysis of data collected from the solution of the solution	1995 to 1998. Sixty-three habitat i structures may inadvertently incre is. The final report will address the roat trout and Dolly Varden.	improvement st ase coho salmo e five working n	ructures wer on populatior oull hypothese	e installed is, thereby es present	in 1995 / ted in	

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99145-CLO	Cutthroat Trout and Dolly Varden: Relation Among and Within Populations of Anadromous and Resident Forms	G. Reeves/USFS, K. Currens/Northwest Indian Fisheries Commission	USFS	Cont'd 4th yr. 3 yr. proje	ect	\$73.0	\$73.0
This project watersheds and FY 97. than origina fish.	t is determining the relation between resident and anadromous for in Prince William Sound. In FY 99, analysis will continue of gen This project received close-out funds in FY 98; this one-year ex ally thought. Results from this study will allow development of a l	orms of Dolly Varden and cutthroat letic, meristic, and life-history featur ktension is requested because it ha ong-term, comprehensive and ecol	trout within the es of each gro s taken longer ogically sound	e same wate oup, which w to complet restoration	ershed and were sample e the genet strategy fo	between ed in FY 9 ic analysis r these	6 s
99252	Investigations of Genetically Important Conservation Units of Rockfish and Walleye Pollock	J. Seeb, L. Seeb/ADFG	ADFG	Cont'd 2nd yr. 5 yr. proje	\$263.8	\$263.7	\$1,106.7
This project Alaska Dep develop exp by Universit the Seward	t will consolidate an array of requests from the commercial fisher partment of Fish and Game would conduct at its Anchorage gene perimental fish runs at the Alaska SeaLife Center; these are esse ty of Montana, University of Alaska, or the Alaska Department of I facility.	ies industry for discrete stock resea tics laboratory. Also, the Alaska De ential for study of genetics, physiolo Fish and Game and other principa	arch into a sing epartment of F ogy, or disease I investigators	gle proposa ish and Ga es of anadro seeking to	l for work th me propose pmous fish p conduct res	hat the es to proposed search at	
99354	Development of Habitat-Based Population Assessment for Nearshore Rockfish Along the Northern Gulf of Alaska	M. Willette/ADFG	ADFG	New 1st yr. 4 yr. proje	ect	\$236.5	\$783.9
Lost fishing rockfish res multiple ma rockfish tiss rockfishes.	opportunities for salmon and herring as a result of the oil spill, conces in recent years. This project will coalesce a variety of coark-resighting, hydroacoustics, and underwater video stations) for sue samples and live specimens for genetic analysis under Project	oupled with greater recreational effort mplementary habitat-specific popular application to nearshore rockfish a fact /252. Project results will be used	ort, has increa ation assessn assemblages. d to identify es	sed exploita nent method The projec sential habi	ation of nea Is (transect t will also co tat for near	rshore dive surv ollect shore	ey,

							Total
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99383	Distribution Study of Cutthroat Trout and Dolly Varden in Prince William Sound	R. Spangler/USFS	USFS	New 1st yr. 3 yr. proj	ject	\$25.6	\$56.6
Significant basic inforr watersheds with these and conser	gaps in knowledge exist regarding the distribution of cutthroat tra mation, determining the effect of the spill or implementing pruder s that have a high likelihood of containing these species to furthe other findings, will provide a more complete picture of these spe rvation efforts.	out and Dolly Varden, particularly in v nt management techniques for recove er describe the population distribution cies in Prince William Sound and will	vestern Princ ery is very dif s. The result greatly assis	e William S ficult. This s of this st t manager	Sound. With project will i udy, when c s in future re	out such nvestigate ombined storation	9
99408-BAA	Aspects of Salmon Shark Ecology in Alaska Waters	J. Musick, K. Goldman/Virginia Institute of Marine Science	ADFG	New 1st yr. 3 yr. pro	ject	\$284.1	\$794.8
Salmon shi information Marine Sci contribution manageme	arks are the apex pelagic fish predator in Gulf of Alaska waters a n on their biology and life history. In an effort to define the ecolog ence (VIMS) and the Alaska Department of Fish and Game (AD n towards better understanding ecosystem function in the Gulf o ent.	and Prince William Sound, yet their ed gical role of salmon sharks, a coopera FG) was established in 1997. Result f Alaska and Prince William Sound, a	cological role ative program s from this st nd will also fo	is largely between udy will ma oster respo	unknown du the Virginia I ake a substa onsible popul	e to lack o nstitute of ntial lation	of T
99409	Investigations of Salmon Shark Diet and Predation on Injured Resources in Prince William Sound	A. Brase/NOAA	NOAA	New 1st yr. 3 yr. proj	ject	\$91.2	\$226.4
The salmon biomass w injured spe and harbor of the troph	n shark is the predominant large predatory fish species in Prince within the oil spill region in recent years. In areas of high abundar becies in the region. Salmon sharks are known predators of pink s r seals. This study of the spatial and temporal variation in the dis hic interactions of these sharks with spill injured resources.	e William Sound. Anecdotal evidence nce, salmon sharks have the potentia salmon, rockfish, and Pacific herring, ets of Prince William Sound salmon sl	suggests a l to significar and are pote harks will hel	dramatic in htly impact ential preda p fill a void	crease in sa a number of ators of marir l in our unde	Imon sha spill ne birds rstanding	rk

							Total
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99425	Description of Rockfish Distribution and Habitat Preference Based on Underwater Video From Prince William Sound and Surrounding Areas	A. Brase/NOAA	NOAA	New 1st yr. 2 yr. proje	ect	\$36.9	\$68.8
Rockfish are videotape ex demersal sp archived vid both substra	e one of the least understood commercially important species in P xists from a 1989 oil spill damage assessment study and may be a pecies. The videotape from the 1989 study has never been analyz eo tapes and accompanying data-sheets and produce a report on ate and epifauna.	rince William Sound due to the inac a valuable resource for understandin zed for the ecological information it r n rockfish and other demersal specie	cessibility o ng the ecolo nay provide es and their	f their habit gy of rockfi . This proje association	at. Submer sh and othe ect will analy and utilizat	sible er yze the ion of	
99472	Growth Rates of Cutthroat Trout and Dolly Varden in Prince William Sound: Comparison of Populations in Oiled and Unoiled Sites	G. Reeves, D. Markle/USFS	USFS	New 1st yr. 3 yr. proie	ect	\$242.7	\$552.7
Dolly Varder the oil spill fo of populatior species.	n and cutthroat trout are listed as injured resources whose recove ound that growth rates of populations in oiled areas were less tha ns in oiled and unoiled areas by comparing sites with similar geog	ery is unknown. They were originally an those of populations in unoiled an raphic features. Results from this s	r listed as in eas. This p tudy will def	jured becau roject will e ermine the	use studies xamine grov status of the	following wth rates ese	
Marine Mamm	nals						
99012A-BAA	Comprehensive Killer Whale Investigation in Prince William	C. Matkin/North Gulf Oceanic	NOAA	Cont'd		\$85.4	\$85.4
	Sound	Society		7th yr.		400 .4	ΨΟΟ

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request I	Request FY99-02
99064	Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound	K. Frost/ADFG	ADFG	Cont'd 5th yr. 6 yr. proj	\$265.0 ect	\$264.8	\$439.8
This proje the ongoir pups will b oxide will conducted 1970s.	ect will monitor the status of harbor seals in Prince William Sound an ng decline. Aerial surveys will be conducted during molting to deter be satellite-tagged to describe and compare their movements, hau be used to examine annual variations in the nutritional status of pu d on recent and archived blubber samples and mathematical mode	nd investigate the hypothesis the rmine whether the population co ing out, and diving behavior to o ps and yearlings, as indicated b Is developed to estimate seal d	hat food limitation ontinues to declin older seals and so by body fat conter iets and whether	to pups ar e, stabilize eals in othe nt. Fatty ac they have	nd juveniles i es, or increas er areas. De cids analysis changed sind	s causing ies. Seal uterium will be ce the	
99341	Harbor Seal Recovery: Controlled Studies of Health and Diet	M. Castellini/UAF	ADFG	Cont'd 2nd yr. 4 yr. proj	\$125.1 ect	\$133.4	\$357.6
This proje conduct s nutritional EVOS sup project wil	ect will continue a long-term study to quantify the impact of feeding s such investigations, under controlled conditions, is now available at lly adequate to maintain seal health. Even though health status bio pported field trials, the critical test of how each marker varies in an Il focus on the issue of harbor seal health, the approach is potential	specific fish diets on the health the Alaska SeaLife Center. Th markers for marine mammals in individual as a result of a speci lly applicable to any of the injure	and body conditions is project will estand n Prince William S fic prey item has ed top predators.	on of harbo ablish whet Sound were not been e	or seals. The her specific e established stablished.	ability to diets are during While this	
99371	Effects of Harbor Seal Metabolism on Stable Isotope Ratio Tracers	D. Schell/UAF	ADFG	New 1st yr. 3 yr. proj	ect	\$105.9	\$309.3
A major co habitats o problems acids labe	oncern with the use of stable isotope tracers in ecosystem studies or prey cannot be assessed if geographic gradients in isotope ratios we will seek specific conservative biomarkers such as essential an eled with 15N and 13C will be used to follow transamination and car	is the fidelity with which ratios a are laid on top of trophic effect nino acids or fatty acids that ca rbon relocation during metaboli	are transferred up as and/or prey swi rry isotope ratios c processes in the	food chair itching. To unmodified e seals at t	ns. Use of s remove the by metabol he Alaska S	pecific se ism. Amin eaLife	0

Center. Specific fatty acid isolation and determination of suitability as habitat biomarkers will follow in years two and three of the project.

Total

							Total
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99441-BAA	Harbor Seal Recovery: Effects of Diet on Lipid Metabolism and Health	R. Davis/Texas A&M Univ.	ADFG	New 1st yr. 2 yr. proj	ect	\$131.6	\$263.2
To better ur nutritional c change ove metabolism investigation	nderstand the results from field studies of harbor seal health, bod omposition. Working with the Alaska SeaLife Center, this project of time during controlled diets of pollock, herring, and several grou of skeletal muscle in harbor seals fed controlled diets and for will ns of diet and health to provide a more in-depth understanding of	y condition, and feeding ecology, da t will determine how fatty acid profile and fish species. In addition, it will a d harbor seals in Prince William Sou the nutritional role and assessment	ta are need s in the blub ssess the ac ind. The res of dietary fa	ed for seals ber of capti erobic capa sults will aug t for harbor	on diets that ive harbor so city and lipic gment alrea seals.	at vary in eals d dy funded	
99464	Physiological Condition of Juvenile Harbor Seals: Impacts of Age and Morphology	J. Burns/UC Santa Cruz	ADFG	New 1st yr. 4 yr. proj	ect	\$51.9	\$201.7
This project body compo determined seal pups a collected in	t will characterize the morphological and physiological factors that osition, oxygen stores and metabolic rates of healthy wild pups can for animals that enter the Alaska SeaLife Center in need of rehal are most vulnerable to ecological disturbances, and to identify fac this study will be augmented by that collected in Prince William S	t limit the diving behavior and foragin aptured within Prince William Sound bilitation. These comparisons will al tors which have a high probability of Sound in FY 98, and in California as	ng efficiency will be meas low us to de impacting s part of a sep	of harbor s sured, and termine who uccessful re parate proje	seal pups. T compared to en and why ecruitment. ect.	⁻ he size, o values harbor Data	
		····					
Nearshore Ed	cosystem						
99025-CLO	Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators (NVP)	L. Holland-Bartels, et al/USGS-I	BRD DOI	Cont'd 5th yr. 5 yr. proj	\$450.0 ect	\$701.3	\$701.3
FY 99 is the preparation assessmen and to impro processes; predators; a	e close-out year for the Nearshore Vertebrate Predator project. F , poster preparation, and presentation of results at professional n t of trophic, health, and demographic factors across a suite of ap ove knowledge of the status of recovery. Primary hypotheses ar (2) Initial and/or residual oil in benthic habitats and in or on benth and (3) EVOS-induced changes in populations of benthic prey sp	Funds for this year are for data analy neetings. The Nearshore Vertebrate ex predators injured by the spill to de e: (1) Recovery of nearshore resour- nic prey organisms has had a limiting ecies have influenced the recovery of	sis, final rep Predator pretermine me rces injured geffect on th of benthic fo	ort writing, roject (NVP chanisms o by EVOS is le recovery raging pred	manuscript) makes an constraining s limited by r of benthic for ators.	integrated recovery recruitmer praging	l

			1100				Total
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99090	Monitoring of Oiled Mussel Beds in Prince William Sound	P. Harris, C. Brodersen/NOAA	NOAA	New 1st yr. 2 yr. proj	ect	\$180.0	\$230.0
This project these beds samples, ho the efficacy they were la	t will monitor mussel densities and hydrocarbon concentrations in were restored in 1994; mussel hydrocarbon concentrations decre owever, indicated recontamination of the replaced sediments and of restoration efforts to long-term natural recovery, we propose t ast sampled (1995). To complete the design, two unoiled referen	n mussels and sediments in 28 musse eased significantly and replaced sedir I the potential for recontamination of n to monitor an additional 16 beds that w nee beds will also be re-sampled.	I beds in Pr nents rema nussels in s vere untrea	rince Willia ined clean come resto ted and re	m Sound. T through 199 red beds. To mained oileo	welve of 95. 1996 o compare I when	
99223-BAA	Evaluation of Sea Otter Population Structure, Population Condition, and Habitat Use in Prince William Sound and Adjacent Areas	L. Rotterman/Enhydra Research	NOAA	New 1st yr. 2 yr. proj	ect	\$87.8	\$162.7
This project abundance, current and recovery; c) impacts of r	t will provide information about the population structure, moveme , and carcass persistence of sea otters in Prince William Sound a future monitoring and assessment study techniques and design;) formulate future spill response; d) interpret monitoring and dama restoration activities on sea otter recovery; and f) elucidate proce	nts, age- and sex- specific survival, ha and adjacent areas. Findings from this ; b) establish benchmarks against whi age assessment results and modeling esses (e.g., immigration or emigration)	abitat use, i s project wi ch to gauge of sea otte impacting	rehabilitation Il be used e current sizer recovery the course	on, distribution to a) evaluat tatus relative ; 3) evaluate of recovery.	on and e past, e to e the	
99289-BAA	Status of Black Oystercatchers in Prince William Sound	S. Murphy/ABR, Inc.	NOAA	Cont'd 2nd yr.		\$232.6	\$232.6
This study v Year 1 stud Because the that will be t	will assess the status of the breeding population of black oysterca lies for this project are scheduled for summer 1998, but prelimina e extent and focus the Year 2 effort are contingent upon the findi required to more thoroughly examine persistent impacts to the br	atchers in Prince William Sound nine (ary results from that initial monitoring e ings of Year 1, this proposal primarily reeding population of oystercatchers in	(1998) and effort will no represents n Prince Wi	ten (1999) t be availa an estimat Iliam Soun	years after t ble until later e of the leve d.	the oil spil in FY 98. I of effort	l.

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99290	Hydrocarbon Data Analysis, Interpretation, and Database Maintenance	J. Short/NOAA	NOAA	Cont'd 8th yr. 11 yr. pro	oject	\$58.9	\$187.9
This project New data we produced a and a data	ct is a continuation of the Natural Resource Damage Assessment will continue to be incorporated into the Trustee Council hydrocarl along with an electronic copy of the data for all data queries. A da base will be initialed for fatty acid/lipid class composition sample of	and restoration database manager bon database. Updated summary r atabase for pristane sample collecti collection and analysis for Auke Ba	nent, sample s reports for inve on and analys y Lab projects	storage, and estigators a is information funded by	d interpretiv nd manage on will be m the Trustee	e service. rs will be aintained Council.	
99325-BAA	Assessment of Injury to Intertidal and Nearshore Subtidal Communities Following the EVOS: Preparation of Manuscripts for Publication	T. Dean/Coastal Resources Associates, Inc.	NOAA	Cont'd 2nd yr. 2 yr. proje	ect	\$44.0	\$44.0
This projec coastal hal	et will prepare manuscripts for publication in scientific journals bas bitats (intertidal and subtidal communities).	ed on previous Trustee Council fur	nded evaluatio	ins of injury	to, and resi	toration of	
99348	Responses of River Otters to Oil Contamination: A Controlled Study of Biological Stress Markers	M. Ben-David, T. Bowyer, L. Duffy/UAF	ADFG	Cont'd 2nd yr. 2 yr. proje	\$176.6 ect	\$222.9	\$222.9
This project exposed to biomarkers	t will explore the effects of oil contamination on physiological and two levels of oil contamination under controlled conditions in caps and immunological examinations.	behavioral responses in river otter ptivity. Samples of blood, tissues, a	s experimenta ind feces will b	ally. Fifteen	l captive otte	ers will be s of	
99379	Assessment of Risk to Residual Oil in Prince William Sound Using P450 Activity in Fishes	J. Jewett/UAF	ADFG	New 1st yr. 1 yr. proje	ect	\$121.3	\$121.3
This project the likely ro risk of expo habitat pre	ct will measure cytochrome P450 1A activity in fishes as an index oute of exposure. Masked greenling will be used as a surrogate t osure to hydrocarbons. Three common nearshore fishes (maske ferences will be used as indicators of pathways of oil exposure.	of the spatial extent of the risk of e o determine the spatial extent, to fis d greenling, Pacific cod, and Pacific	xposure to hyd shes as well a c sand lance)	drocarbons is other nea that have d	and as an i arshore verte ifferent prey	ndex of ebrates, o and	f

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99401	Spot Shrimp: A Population Dynamics Study	C. Hughey/Valdez Native Tribe	ADFG	New 1st yr. 2 yr. proj	ect	\$70.1	\$147.1
This project has suffici openings f	ct will study population abundance and distribution in various area ently reestablished itself since the oil spill. The study will provide for subsistence, personal use and commercial fishing in Prince W	as of Prince William Sound to determine data needed to determine if the spot s /illiam Sound.	e whether o hrimp popu	or not the s Ilations car	pot shrimp p n sustain sea	oopulation asonal	
99402	Weathered Oil Effects on Sediment Microorganisms	R. Ewing/Biotech, Inc.	NOAA	New 1st yr. 3 yr. proj	ect	\$106.4	\$277.5
This project control are chemical r charge me temperatu	ct will examine the biomass and composition of microorganisms i eas with similar sediments but with no residual oil. Biomass and o measurements, including most probable number analysis of bacte easurements, and electron transport system measurements of se ire, substrate type, and season.	n beach sediments polluted with weath composition will be determined with a s eria, oxygen consumption, chlorophyll c diments. Analyses will be correlated w	ered oil an eries of mic ontent, AT ith the amo	d compare crobiologic P determin punt of oil p	these result al, biochemic ations, ader resent, wate	s with cal and ylate er	
99423	Pattern and Processes of Population Change in Selected Nearshore Vertebrate Predators	J. Bodkin, D. Esler/DOI, D. Rosenberg/ADFG	DOI	New 1st yr. 4 yr. proj	ect	\$477.0	\$1,665.0
Prior resea sea otters abundance independe movemen the nearsh	arch has identified sensitive variables for assessing recovery of the , their invertebrate prey and harlequin ducks. Core data collection e and size classes of key sea otter prey, and annual assessment ent, components are proposed to expand the spatial scale of P450 ts, and foraging energetics. This project will monitor both injured more ecosystem and will test new approaches to ecosystem monitor	he nearshore ecosystem in western Pri n includes annual surveys of sea otter of harlequin duck numbers, population 0 sampling of sea otters and to examin- populations and ecological processes toring.	nce Willian distribution structure, e adult sea to address	n Sound th and abund and surviv otter fema questions	rough popula lance, estim al. Additiona le survival, central to re	ations of ates of al, but covery of	

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99432	Proximate and Ultimate Effects of Crude Oil on the Intertidal Fish, High Cockscomb	A.J. Paul/UAF	ADFG	New 1st yr. 3 yr. proj	ect	\$66.4	\$151.
The high c spill. This ten years a Elevated F how living	cockscomb (<i>Anoplarchus purpurescens</i>) is an abundant intertidal fi study's first objective is to examine possible continued sublethal e after the spill. Sublethal exposure to oil is often lethal in the long te 2-4501A levels in Prince William Sound cockscombs were primarily on oiled sediment affects spawning behavior, maternal care of the	sh of Prince William Sound that ha ffects by determining hepatic P-45 erm because it reduces an organis due to living on oiled sediment. eggs, and embryonic development	ad elevated he i01A levels in m's fitness thr Therefore, the nt.	epatic P-450 Prince Willi ough altere second ob	01A levels a am Sound c d reproduct jective is to	fter the oil ockscomb ion. determine	S
99448	Evaluating Recovery of Coastal River Otters: Gender-Specific Response to the Oil Spill	M. Ben-David, T. Bowyer/UAF	ADFG	New 1st yr. 2 yr. proj	ect	\$90.1	\$144.
This project using arch in previous intertidal fis leading to	ct will investigate diets of male and female river otters inhabiting oil nived fecal samples from immediately post spill to the present, and s studies suggested that male and female river otters may differ in sh, whereas groups of males rely more on pelagic fish. Therefore, significant effects on population recovery.	led and unoiled areas of Prince W determine gender classification of their foraging strategies, with solit , females may have increased sus	illiam Sound. the feces by l ary females co ceptibility to d	It will ascer DNA analys oncentrating isturbance	tain diet cor sis. Direct o g more on so of the interti	nposition bservation edentary dal zone	S
99459	Residual Oiling of Armored Beaches and Mussel Beds in the Gulf of Alaska	G. Irvine/USGS-BRD	DOI	New 1st yr. 2 yr. proj	ect	\$195.5	\$235.
For at leas state. This predict, on These site oiling in 19	st five years after the spill, oil mousse persisted on the exposed roo s project will resample these boulder-armored beach sites that wer to the basis of geomorphology and oiling history, other locations in the s will then be visited and sampled. In addition, we will resample so 393, to compare residual oiling of these with oiled mussel beds in F	cky shores of the Alaska and Kena re last studied in 1994. In addition the spill area where oil is likely to l everal oiled mussel beds in the Gu Prince William Sound.	ai peninsulas in , the results of de persisting in ,lf of Alaska th	n a remarka f previous w n a relativel at had rela	ably unweat vork will be u y unweathe tively high le	hered used to red state. evels of	

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Total Request FY99-02
99466	Recovery Status of Barrow's Goldeneyes	D. Esler/USGS-BRD	DOI	New 1st yr. 2 yr. proje	ct	\$12.2	\$26.4
Although I been injur goldeneye collected f work will le if warrante	Barrow's goldeneyes are not on the list of resources injured red and populations may not be fully recovered. Due to thes e populations from the oil spill through assemblage and analy for other objectives within the Nearshore Vertebrate Predato ead to the definition of recovery status, identification of any of ed, proposal of directed research to fill those gaps during FY	by the oil spill, some recently collected ev e concerns, this proposal will critically ass ysis of all existent, relevant data. This will or (NVP) project (/025) and compilation of data gaps limiting our understanding of rec 2000 and beyond.	idence sugge less the statu be accomplisexisting inforr covery status	ests that gold s of recover shed through nation from or impedime	deneyes ma y of Barrow h analyses other sourc ents to reco	ay have 's of data es. This overy, and	ļ,
99480	Abundance and Reproductive Success of Black Oystercatchers in Prince William Sound	B. Andres/USFWS	DOI	New 1st yr. 1 yr. proje	ct	\$36.1	\$36.1
The black Green, an 1993 alon these fact Island in 1 and food a	oystercatcher was determined to be injured by the oil spill a ad Montague islands to determine breeding pair occupancy a g the same shorelines. Additional information will be collect ors on occupancy and productivity. Data collected in 1999 v 1999 than in 1993, 2) the population on Green Island is incre availability, between Green and Knight islands.	and the status of their recovery is unknown and productivity. This information will be c ed on predator densities and invertebrate will demonstrate recovery of black oysterc easing or stable, and 3) productivity is simi	n. This project compared with prey densitie atchers if 1) r lar, when acc	t will survey data gathe s to determi nore pairs a counting for p	shorelines red from 19 ne the influe re occupyir predation p	on Knigh 991 to ence of ng Knight ressure	t,
0		· · · · ·					
Seabird/For	rage Fish and Related Projects						
99144A	Common Murre Population Monitoring	D. Roseneau/USFWS	DOI	Cont'd 4th yr. 4 yr. proje	\$23.0	\$72.2	\$72.2
This proje the Barrer 1993-96 c obtain the anniversa	ect is a follow-up study to the restoration projects that census in Islands murre colonies in FY 99 instead of deferring the wo chick cohorts will provide an excellent opportunity to determin information needed to satisfy the remaining recovery goal for any of the spill).	sed the Barren Islands murre colonies in F ork until FY 00 or FY 01 because returning ne whether population increases documer or this injured species in the spill area (a p	Y 96-97 (/14 3 3-, 4-, 5-, an nted in FY 97 potential findir	4). We are p id 6-year-old are continui ng appropria	broposing to birds from ng, and if th te for the 10	o recensu the stron ney are, to 0th	s g o

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02	
99159	Surveys to Monitor Marine Bird Abundance in Prince William Sound During Winter and Summer; Report and Publication Writing	B. Lance, D. Irons/USFWS	DOI	Cont'd 6th yr. 9 yr. proj	ect	\$37.0	\$568.5	
Small boa and July 1 changed a annual rep	It surveys to monitor abundance of marine birds in Prince William Se 1989, 1990, 1991, 1993, 1996, and 1998. This project will use the d at the same rate as those in the unoiled zone. It will also examine o port and a paper for publication.	ound were conducted during March lata to examine trends by determinir overall population trends for Prince V	1990, 1991 ng whether p Villiam Soun	, 1993, 199 oopulations id from 198	94, 1996, and in the oiled 39-98, and p	d 1998 zone repare an		
99163	APEX: Alaska Predator Ecosystem Experiment in Prince William Sound and the Gulf of Alaska	D. Duffy/Paumanok Solutions	NOAA	Cont'd 6th yr. 7 yr. proj	\$1,880.3 ject	\$1,986.1	\$3,455.0	
This proje including o with hydro extent to v abundanc	ect will seabirds as probes of the trophic (foraging) environment of P diet, with similar measurements from Cook Inlet, an area with appar bacoustic, aerial, and net sampling of fish to calibrate seabird perfor which food limits the recovery of seabirds from the oil spill. Historica we and to test hypotheses explaining such shifts.	rince William Sound and compare the rently a more suitable food environm mance with fish distribution and abu al data from a variety of sources will	neir reprodu nent. These Indance. Th be used to	ctive and for measuren his will allow detect shif	oraging biolo nents will be w a determin ts in forage f	ogies, compared ation of the ish	9	
99169	A Genetic Study to Aid in Restoration of Murres, Guillemots, and Murrelets in the Gulf of Alaska	V. Friesen/Queen's Univ., J. Piatt/USGS-BRD	DOI	Cont'd 3rd yr. 4 yr. pro	\$86.2 ject	\$92.7	\$107.5	
Population analyses of aid restora reference small effeo	ns of common murres, pigeon guillemots, and marbled and Kittlitz's of mitochondrial DNA, microsatellites, and introns to measure generation by 1) determining the geographic limits of populations affected or 'control' sites for monitoring. As incidental results, it will also rev ctive population sizes in restricting recovery, and suggest suitable s	murrelets suffered high mortalities f tic differentiation and gene flow and by the spill, 2) identifying sources a real cryptic species and subspecies, source colonies for translocations.	following the ong colonies and sinks, an indicate the	spill. This of these s nd 3) ident importance	project will pecies. This ifying approp ce of inbreed	continue the project with project with priate ling and	ne II	

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99287-BAA	Seabird-Oceanographic Relationships in the Northern Gulf of Alaska: Integration with NSF Study "GLOBEC"	R. Day/ABR, Inc.	NOAA	New 1st yr. 2 yr. proj	ect	\$222.9	\$490.6
This project platform tha extensive s in the distril data on the	t will conduct a two-year study of seabirds in the Northern Gulf of at is being used by the National Science Foundation project "GLO eries of oceanographic data. The project will identify ecological p bution and abundance of seabirds, including species that were inju- year-round status of seabird populations and the processes that	Alaska (Aialik Bay to Montague Islar BEC" (Global Ocean Ecosystem Dyn rocesses affecting temporal (season ured by the oil spill. It also will be us influence variation in their numbers.	nd) by using namics), wh al and inter eful to the r	a ship-of-c ich also wi annual) an estoration	opportunity s Il provide ac d geographic program by p	ampling cess to an c variation providing	l
99306	Ecology and Demographics of Pacific Sand Lance in Lower Cook Inlet	J. Piatt/USGS-BRD	DOI	Cont'd 3rd yr. 4 yr. proj	\$30.0 ect	\$30.0	\$50.0
This project species in t nearshore a biology of th	t will characterize the basic ecology, distribution, and demographic he Northern Gulf of Alaska have been linked to decreasing availat areas of the northern gulf. Despite its importance to commercial fin his key prey species.	cs of sand lance in lower Cook Inlet. bility of forage fishes. Sand lance is ish, seabirds, and marine mammals,	Recent de the most in little is know	clines of up portant for wn or publi	oper trophic age fish in n shed on the	level nost basic	
99327	Pigeon Guillemot Restoration Research at the Alaska SeaLife Center	D. Roby/Oregon State Univ.	DOI	Cont'd 2nd yr. 4 yr. proj	\$159.5 ect	\$158.0	\$325.0
This project propagatior objectives: compositior	t will test the feasibility of direct restoration techniques for pigeon (and release). While raising young guillemots in captivity it will al (1) development of nondestructive biomarkers of petroleum hydro n, prey size, lipid content, feeding frequency) constrain growth, de	guillemots (e.g., installation of artifici so be possible to conduct controlled ocarbon contamination, and (2) unde evelopment, and condition at fledging	al nest sites experiment rstanding he in guillemo	s, use of so ts crucial to ow dietary ts.	cial attractar two other re factors (prey	nts, captiv estoration species	e

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99338	Survival of Adult Murres and Kittiwakes in Relation to Forage Fish Abundance	J. Piatt/USGS-BRD	DOI	Cont'd 2nd yr. 3 yr. proj	\$57.9 ect	\$57.9	\$102.9
Some sea fluctuation Recruitme and foragin kittiwakes.	bird populations damaged by the oil spill continue to decline or are is, we must measure productivity, recruitment, and adult survival. C ent measurement demands an unrealistic study duration. This proje ing effort to fluctuations in forage fish density by using banding and	not recovering. In order to unders Current APEX (Project /163) studie ect will augment current studies in resighting to quantify the survival o	tand the ultim s are focused lower Cook In of adult comm	hate cause d on measu hlet that relation murres	of seabird p ring product ate breeding and black-le	opulation tivity only. success egged	
99346	Publication of an Indexed Bibliography of the Genus Ammodytes (Sand Lance)	R. Armstrong/UAA, M. Wilson/USFS, H. Robards/DOI	USFS	Cont'd 2nd yr. 1 yr. proj	ect	\$10.3	\$10.3
This is a re larger). Th chapters, i enhance th Northwest	equest for additional funding to cover the cost of publication becaus his manuscript includes about 2,000 references and will total about in addition to bibliography a review of sand lance biology and sar he value of the bibliography considerably. The manuscript will be p t Research Station.	se the bibliography is much larger (440 pages, single spaced. The fir nd lance as a cornerstone species. published as a General Technical F	than our original publication Both of thes Report by the	nal estimate n will includ e review ch U.S. Fores	e (about thre e two addition napters shou t Service, Pa	ee times onal uld acific	
99347	Fatty Acid Profile and Lipid Class Analysis for Estimating Diet Composition and Quality at Different Trophic Levels	R. Heintz/NOAA	NOAA	Cont'd 2nd yr. 3 yr. proj	\$92.6 ect	\$105.4	\$141.2
This projec prey. The of these fo Prince Will provide inf	ct will begin the systematic development of fatty acid profiles and lip spatial and temporal variability of fatty acid profiles in herring, sand orage fish. The spatial comparisons, which began in FY 98, will pro lliam Sound. These comparisons are based on samples collected b formation on the energetic changes that inevitably occur with seaso	pid class analysis to identify diet di d lance, and zooplankton will be ex ovide insight into the energetic diffe by APEX (Project /163). In FY 99, onal, ontogenetic, and reproductive	fferences and camined and r rences in fora temporal com e changes.	d quality in t related to th age fish in c nparisons w	forage fish a ne nutritiona disparate pa vill be made,	and their I condition rts of which wil	I

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99381	Status of Seabird Colonies in Northeastern Prince William Sound	M. Bishop/USFS	USFS	New 1st yr. 2 yr. proj	ect	\$13.0	\$14.0
With the m changes in to Orca In pressure t survey the species.	nost recent colony data from 6-24 years old, current documentatio n size, species composition, and location that may have occurred let) are pending purchase by the Trustee Council to aid in the rest that may increase human/wildlife interactions. This project will est e coastline for suspected and unknown seabird colonies. Acquisiti	n on seabird colonies in northeaste since the oil spill. Areas around no toration of injured species. These la ablish current population data for the ion of this information is necessary	rn Prince Willi rtheastern Pri ands may be s e seven know to minimize hu	am Sound nce Williar ubject to in n colonies uman distu	may not refl n Sound (Po ncreased hu in these are rbance of inj	ect recent rt Gravina man as and ured	
99406	Field Examination of the Relation Between Phytoplankton Production of Fatty Acids and Uptake in Pacific Sandlance	R. Heintz/NOAA	NOAA	New 1st yr. 2 yr. proj	ect	\$106.2	\$147.6
This proje because T web by sa with labora plausibility	ct will assess the basic assumption underlying the use of fatty acid Frustee research projects based on this assumption are underway ampling phytoplankton, zooplankton and sandlance before and after atory study designed to examine the fate of fatty acids as they are y of the central assumption underlying the analysis of fatty acid con	d (FA) analysis for examining trophi v. The project will demonstrate the p er the spring plankton bloom in Kac transferred between trophic levels. mpositions for identifying diet.	c relationship propagation of nemak Bay. 1 Together the	s. This de fatty acids his field st ese experir	monstration s through a s tudy will be c nents will ex	is importat imple food oupled amine the	nt 1
99434	East Amatuli Island Remote Video Link Project	M. O'Meara/Pratt Museum	DOI	New 1st yr. 1 yr. proj	ject	\$80.4	\$80.4
Under this be used to for studen at the Prat	s project, a microwave link will transmit live images and audio from test remote collection of data on seabird breeding parameters (e t involvement in restoration monitoring and allow members of the tt Museum will pan, tilt, and zoom cameras to observe murres and	n East Amatuli Island to the Pratt Mu .g., nest attendance) as a suppleme general public to view spill area res d kittiwakes. The cameras' compute	iseum, in Hon ent to monitori ources and re er control syste	ner. Two o ng program storation r em will be	ameras on t ns, provide a esearch proj programmeo	he island v a vehicle ects. Use I to store	<i>w</i> ill rs

precise nest locations that can be revisited upon command, or automatically at specified intervals, to record images on video tape.

Total

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request F	Request TY99-02
99442-BAA	Population Trends and Productivity of Kittlitz's Murrelet in Prince William Sound	R. Day/ABR, Inc.	NOAA	New 1st yr. 2 yr. proj	ect	\$231.0	\$499.8
This projec Prince Willi evaluate th about popu	et will conduct a fourth and fifth year of investigations on the statu- iam Sound. The project will emphasize evaluating population trea e distribution and abundance, habitat use, and trophic position of alation trends and productivity of this species, additional sampling	s and ecology of Kittlitz's murrelet, a rands and productivity and will continue for this little-known seabird in northwester is required to ensure its long-term continued to e	are seabird efforts from ern Prince \ nservation.	breeding i our previo William Sou	n glaciated fj ous project (/ und. Given u	ords of 142) to incertainty	
99479	Effects of Food Stress on Survival and Reproductive Performance of Seabirds	J. Piatt/USGS-BRD, A. Kitaysky/Univ. of Washington	DOI	New 1st yr. 4 yr. proj	ect	\$100.4	\$430.2
This projec restraint. T population stress. Thi of food. Th	t will measure the rise in blood levels of stress hormones such as This well-known response (found throughout vertebrates from fish is chronically stressed or, if baseline levels of corticosterone app is "field endocrinology" approach provides exact information on c ne project will investigate seabirds breeding in lower Cook Inlet a	s corticosterone in response to a stand to mammals) provides a strong assest ear normal, the stress-induced increas surrent stress status and the potential f and also use captive birds for controlled	dardized str ssment of v se in cortico or stress in l experimer	ressor: cap whether or osterone in relating to hts at the A	pture, handlir not a free-liv dicates poter quality and a laska SeaLif	ng and ing ntial for abundance e Center.	
99488	A Computerized Colony, Environment and Seabirds-at-Sea Database (ACCESS)	J. Piatt/USGS-BRD, G. Ford/Ecological Consulting, Inc.	DOI	New 1st yr. 3 yr. proj	ject	\$119.4	\$328.8
A number of Computeriz assess imp predict the to complete	of large databases, yet to be synthesized, contain detailed inform zed Colony, Environment, and Seabirds-at-Sea database (ACCE bacts of commercial fisheries on marine birds, monitor long-term impact of future oil spills on seabird colony populations, and esting a database archive and retrieval system that can be easily acce	nation on the pelagic distribution of sea SS), this information could be used to changes in marine ecosystems, plan a mate population sizes of rare or threat essed by specialists or non-expert use	birds in Ala monitor rec ind manage ened speci r groups.	iska. If con covery of s e marine re es. A direc	mpiled into A eabirds from eserves, mod cted effort is	oil spills, el and required	

Total

							Total
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request t FY99-02
Archaeologic							
99007A	Archaeological Index Site Monitoring	D. Reger/ADNR	ADNR	Cont'd 5th yr. 8 yr. proj	\$151.5 ect	\$151.5	5 \$575.6
Monitoring area. Oilec continue wi	of archaeological sites on public land injured by vandalism I sites will be tested for reintroduced oil. A total of 11 sites th return to sites initially identified but not recently monitore	and oiling will concentrate on a sample o will be visited in 1999. Scattered instance ed.	of index sites in es of vandalis	n the three m continue	regions of the and monito	ne spill pring will	
99149-CLO	Archaeological Site Stewardship	D. Reger/ADNR	ADNR	Cont'd 4th yr. 4 yr. proj	\$10.0 ect	\$15.2	\$15.2
The archae oil spill area Uyak Bay, a conclusions	eological site stewardship program has been aimed at prov a beyond the ability of agency monitoring. Volunteer site s and the Chignik area of the Alaska Peninsula. Closeout of s about usefulness and structure of the program and identi	iding training and coordination for a cadre tewards monitored damaged sites on the the project will summarize accomplishme fy future directions for similar programs.	e of volunteers Kenai Penins ents of the pas	s to monitor ula, Kacher st three yea	vandalized mak Bay, Ug Irs of activity	sites in th ganik Bay /, outline	e
99298-BAA	Public Brochure on Archaeology at the Alaska SeaLife C	Center M. Yarborough/Cultural Resou Consultants	Irce DOI	New 1st yr. 1 yr. proj	ect	\$6.6	\$ \$6.6
This project brochure w will focus of been learne proposal ine	t will produce a public brochure describing archaeological i ill contain both historic photographs and maps of the Sewa n research at the Lowell Homestead, the earliest Americar ed from archaeology at the SeaLife Center, and an underst cludes production of the manuscript for the brochure and 2	research undertaken during construction and waterfront, and photographs and draw a settlement in Seward. This publication v tanding of the richness and importance of 2,000 copies.	of the Alaska vings from the will give the ge f heritage reso	SeaLife Ce archaeolog eneral public ources in the	nter in Sewa gical investig c a sense of e oil spill are	ard. The jations. It f what has ea. The	3

ProjectTitle	Proposer	Agency	Cont'd	Expected	Request	FY99-02
Community Involvement	P. Brown- Schwalenberg/CRRC	ADFG	Cont'd 5th yr. 8 yr. proje	\$230.0 ct	\$255.7	\$1,020.7
vill increase community involvement in the restoration process. T gional Resources Commission (CRRC). Through direct commun ctively involve local residents in the restoration program. (Local f vard, Seldovia, Valdez, Kodiak, and Alaska Peninsula.) In FY 99 vith CRRC, the Kodiak Island Borough School District will select of k, Old Harbor, Kodiak City) to serve as local facilitators. In additi ogram.	The Spill Area-Wide Coordinator's wo ication with a network of local facilita facilitators are located in Tatitlek, Che a network of high school interns wil one high school student from each o ion, the interns will facilitate school a	ork will con tors, the S enega Bay Il be create of six comn nd commu	tinue throug pill Area-Wio , Port Graha d in the Koo nunities (Por nity discussi	h a contrac de Coordina im, Nanwal liak Island i it Lions, La ions about	et with the ator will region. In rsen Bay, the	
Traditional Ecological Knowledge vill fund a TEK (Traditional Ecological Knowledge) specialist to (1 r for whom it would be appropriate to use, TEK, (2) serve as a co ordinator hired under Project /052A, and principal investigators of cipal investigators and community experts. Also, community wor TEK. These workshops may involve experts who have experience ame will provide staff support for the project.	P. Brown- Schwalenberg/CRRC) provide technical assistance to resontact point for spill area communities on issues related to TEK, (3) organize kshops will be held to enhance unde ce in applying TEK from an Alaska N	ADFG toration pro s, the com e and coor rstanding o lative pers	Cont'd 3rd yr. oject principa munity facilit dinate synth of the benefic pective. The	al investiga tators and s esis works ts and impl e Alaska De	\$70.8 tors who Spill hops ications of epartment	\$70.8 f
Tatitlek Coho Salmon Release /ill create a coho salmon return to Boulder Bay near the village o tment of Fish and Game approved stream, incubated and reared	G. Kompkoff/Tatitlek IRA Council f Tatitlek. Enough coho eggs to proc d to smolt at the Solomon Gulch Hato	ADFG duce 20,00 chery, trans	Cont'd 5th yr. 5 yr. proje 0 smolt will l sported, and	\$10.7 ct be collected held for tw	\$11.4 d from an o weeks	\$11.4
	Community Involvement //II increase community involvement in the restoration process. //II increase community involvement in the restoration process. //II increase community involvement in the restoration program. (Local to vard, Seldovia, Valdez, Kodiak, and Alaska Peninsula.) In FY 95 //th CRRC, the Kodiak Island Borough School District will select k, Old Harbor, Kodiak City) to serve as local facilitators. In addit ogram. Traditional Ecological Knowledge //II fund a TEK (Traditional Ecological Knowledge) specialist to (1 or for whom it would be appropriate to use, TEK, (2) serve as a coordinator hired under Project /052A, and principal investigators of cipal investigators and community experts. Also, community wor TEK. These workshops may involve experts who have experien ame will provide staff support for the project. Tatitlek Coho Salmon Release //II create a coho salmon return to Boulder Bay near the village of trent of Fish and Game approved stream, incubated and reared	Projectifie Projectifie P. Brown- Schwalenberg/CRRC /// P. Brown- Schwalenberg/CRC /// P. Brown- Schwalenberg/CRC /// P. Brown- Schwalenberg/CRC	Project rule Project rule Community Involvement P. Brown- Schwalenberg/CRRC ADFG <i>i</i> ll increase community involvement in the restoration process. The Spill Area-Wide Coordinator's work will conjonal Resources Commission (CRRC). Through direct communication with a network of local facilitators, the S tively involve local residents in the restoration program. (Local facilitators are located in Tatitlek, Chenega Bay vard, Seldovia, Valdez, Kodiak, and Alaska Peninsul.) In FY 99, a network of high school interns will be create the the CRRC, the Kodiak Island Borough School District will select one high school student from each of six comm k, Old Harbor, Kodiak City) to serve as local facilitators. In addition, the interns will facilitate school and commu ogram. Traditional Ecological Knowledge P. Brown- Schwalenberg/CRRC ADFG <i>i</i> ll fund a TEK (Traditional Ecological Knowledge) specialist to (1) provide technical assistance to restoration proor for whom it would be appropriate to use, TEK, (2) serve as a contact point for spill area communities, the commordinator hired under Project /052A, and principal investigators on issues related to TEK, (3) organize and coordinator hired under Project /052A, and principal investigators on issues related to TEK, (3) organize and coordinator hired under Project /052A, and principal investigators and community workshops will be held to enhance understanding of TEK. These workshops may involve experts who have experience in applying TEK from an Alaska Native persigname will provide staff support for the project. Tatitlek Coho Salmon Release G. Kompkoff/Tatitlek IRA Council ADFG vill create a coho salmon return to Boulder Bay near th	Project nue P. Brown- Schwalenberg/CRRC ADFG Cont'd Sth yr. 8 yr. proje jill increase community involvement in the restoration process. The Spill Area-Wide Coordinator's work will continue throug jional Resources Commission (CRRC). Through direct communication with a network of local facilitators, the Spill Area-Wide ard, Seldovia, Valdez, Kodiak, and Alaska Peninsula.) In FY 99, a network of high school interns will be created in the Koc <i>i</i> th CRRC, the Kodiak Island Borough School District will select one high school student from each of six communities (Poi <i>i</i> th CRRC, the Kodiak Island Borough School District will select one high school student from each of six community discuss ogram. Traditional Ecological Knowledge P. Brown- Schwalenberg/CRRC ADFG Cont'd 3rd yr. <i>i</i> ll fund a TEK (Traditional Ecological Knowledge) specialist to (1) provide technical assistance to restoration project princip in for whom it would be appropriate to use, TEK, (2) serve as a contact point for spill area communities, the community ipal investigators and community experts. Also, community workshops will be held to enhance understanding of the benefit EK. These workshops may involve experts who have experience in applying TEK from an Alaska Native perspective. The ame will provide staff support for the project. Tratitlek Coho Salmon Release G. Kompkoff/Tatitlek IRA Council ADFG Cont'd 5th yr. 5 yr. proje vill create a coho salmon return to Boulder Bay near the village of Tatitlek. Enough coho eggs to produce 20,000 smolt will trent of Fish and Game approved stream, incubated and reared to smolt at the Solomon Guich Hatchery, transported, and	Projectime Projectime Community Involvement P. Brown- Schwalenberg/CRRC ADFG Cont'd \$230.0 Sth yr. Byr. project ill increase community involvement in the restoration process. The Spill Area-Wide Coordinator's work will continue through a contract jonal Resources Commission (CRRC). Through direct communication with a network of local facilitators, the Spill Area-Wide Coordinator's work will continue through a contract strely involve local residents in the restoration program. (Local facilitators are located in Tatiltek, Chenega Bay, Port Graham, Nanwal vard, Seldovia, Valdez, Kodiak, and Alaska Peninsula.) In FY 99, a network of high school interns will be created in the Kodiak Island in the Kodiak Island Borough School District will select one high school student from each of six communities (Port Lions, La K, Old Harbor, Kodiak City) to serve as local facilitators. In addition, the interns will facilitate school and community discussions about ogram. Traditional Ecological Knowledge P. Brown- Schwalenberg/CRRC ADFG Cont'd 3rd yr. ill fund a TEK (Traditional Ecological Knowledge) specialist to (1) provide technical assistance to restoration project principal investigators and community experts. Also, community workshops will be held to enhance understanding of the benefits and implict. These workshops may involve experts who have experience in applying TEK from an Alaska Native perspective. The Alaska De ane will provide staff support for the project. Tatittek Coho Salmon Release G. Kompkoff/Tatitlek IRA Councit ADFG Cont'd \$10.7 Sth yr. 5 yr. project vill create a coho salmon return to Boulder Bay n	Project ride Proposer Community Involvement P. Brown-Schwalenberg/CRRC ADFG Cont'd \$230.0 \$255.7 Sth yr. 8 yr. project 8 yr. project 8 yr. project 8 yr. project rill increase community involvement in the restoration process. The Spill Area-Wide Coordinator's work will continue through a contract with the tripical Resources Communission (CRRC). Through direct communication with a network of local facilitators, the Spill Area-Wide Coordinator will stively involve local residents in the restoration program. (Local facilitators are located in Tatitiek, Chenega Bay, Port Graham, Nanwalek, vard, Seldovia, Valdez, Kodiak, and Alaska Peninsula.) In FY 99, a network of high school interns will be created in the Kodiak Island region. In the RK (Att Kodiak, Island region. In the RK) (the Kodiak Island Borough School District will select one high school student from each of six communities (Port Lions, Larsen Bay, k, Old Harbor, Kodiak, City) to serve as local facilitators. In addition, the interns will facilitate school and community discussions about the ogram. Traditional Ecological Knowledge P. Brown- Schwalenberg/CRRC ADFG Cont'd \$70.8 if fund a TEK (Traditional Ecological Knowledge) specialist to (1) provide technical assistance to restoration project principal investigators and Spill ordinator hired under Project /052A, and principal investigators on issues related to TEK (3) organize and coordinate synthesis workshops sigal investigators and community experts. Also, community workshops will be held to enhance understanding of the benefits and implications or TEK. These workshops may involve experts who have expe

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99131	Chugach Native Region Clam Restoration	P. Brown- Schwalenberg/ CRRC	ADFG	Cont'd 5th yr. 5 yr. proje	ect	\$285.4	\$285.4
Cost effe 99 the sc analyzing hectares. Tatitlek, N	ctive procedures for establishing easily accessible subsister cope of work will be confined to developing effective, standar g growth and mortality of this seed placed on the beaches in Follow-up research on success of seeding will be conducte Nanwalek and Port Graham.	nce clam populations near Native villages in the dized techniques for producing littleneck clam FY 96, FY 97 and FY 98. Total seeded area ed. Growout development work will be confine	ne oil spill n seed at th during the ed to areas	region will ne Qutekca project will s near the I	be establish k Hatchery not exceed Native villag	ed. In FY and five es of	
99210	Youth Area Watch	R. Sampson/Chugach School District	ADFG	Cont'd 4th yr. 7 yr. proje	ect	\$139.5	\$465.9
The Yout is to invol Youth cor Youth Are Cordova,	h Area Watch project links students in the oil spill impacted a lve students in the restoration process, and give these indivi nduct research identified by EVOS principal investigators wh ea Watch serves as a positive example of community invest Seward, Valdez, Whittier, and a remote site.	area with research and monitoring projects fu duals the skills to participate in oil spill restora to have indicated interest in working with stud ment in the restoration process. Participating	nded throu ation activit lents in oil communit	igh the Trus ties now an spill impact ties are: Ta	stee Counci d in the yea ted commur atitlek, Chen	l. The goa rs to com nities. ega Bay,	al e.
99225	Port Graham Pink Salmon Subsistence Project	E. Anahonak,/Port Graham IRA Council	ADFG	Cont'd 4th yr. 5 yr. proje	\$75.0 ect	\$75.6	\$150.6
This proje Because for subsis strategies hatchery	ect will help supply pink salmon for subsistence use in the Palocal runs of coho and sockeye salmon, the more traditional stence. This project will help ensure that pink salmon remains are being employed; increased fisheries management survey produced pink salmon.	ort Graham area during the broodstock develo salmon subsistence resource, are at low levelo n available for subsistence use until the more reillance to maximize use of adult pink salmor	opment ph els pink sa e traditiona n return an	ase of the l Imon are be I species and I increasin	Port Grahan eing heavily re rejuvenat g marine su	n hatchery relied on ed. Two rvival of	

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99245	Community-Based Harbor Seal Management and Biologica Sampling	J. Fall/ADFG, M. Riedel/Alaska Harbor Seal Commission	ADFG	New 1st yr. 4 yr. proje	ct	\$85.9	\$325.9
This proje in FY 97, program, Game to o Under Pro program.	ect will continue the harbor seals biological sample collection pro in Prince William Sound, lower Cook Inlet, and Kodiak Island. F village-based technicians are selected by the Alaska Native Ha collect samples. The samples are transported to Anchorage or pject 99245, the ANHSC will also organize a two-day workshop,	ogram begun under Project /244. The pr FY 98 was scheduled to be the Project /2 rbor Seal Commission (ANHSC) and trai Kodiak for further sampling and distribut , and produce and distribute a newsletter	ogram was 44's close- ned by the ion to partic with summ	initiated in F out year. Ur Alaska Depa pating scier paries of the	Y 96 and 6 ader the bio artment of htists for ar biological s	expanded osampling Fish and nalysis. sampling	
99247	Kametolook River Coho Salmon Subsistence Project	Perryville Village Council	ADFG	Cont'd 3rd yr. 6 yr. proje	\$14.8 ct	\$20.8	\$92.8
Subsisten River sinc levels. Th Instream i subsisten	the users from the Alaska Peninsula Native Village of Perryville be the oil spill. Criminal settlement funds were used in FY 96 to his project will provide funding through FY 2002 for the Alaska D incubation boxes have been evaluated and selected as the prim ce in the Kametolook River.	have noted significant declines in the co determine what method would best rest Department of Fish and Game to try cons nary restoration tool to rebuild the depres	ho salmon ore the rive ervative an sed coho s	run in the ne r's coho salr d safe resto almon stock	arby Kame non stock f ration meth needed fo	etolook to historic nods. r	
99256B	Sockeye Salmon Stocking at Solf Lake	D. Gillikin/USFS, P. Shields/ADF	G USFS	Cont'd 4th yr. 7 yr. proje	ct	\$68.3	\$298.9
This proje an excelle FY 96, inc 99 include	ect will benefit subsistence users of Prince William Sound focusi ent opportunity to reestablish a self-sustaining sockeye salmon i dicate the lake is still capable of supporting a harvestable popula es: finalizing the design on the migration channel, collecting egg	ing on residents of Chenega Bay. Solf La run lost as a result of an earthquake in th ation of salmon provided access to migra gs, rearing and releasing sockeye fry, an	ake has bee le 1930's. I ltory fish is d monitorin	en recognize Initial investion improved. V g fish out-mi	d for many gations, be Vork propo gration and	years as ginning in sed for Fi d the	(

limnological characteristics of the lake.

Total

			Lead	New or	FY99	FY99	Total Request
Proj.No.	ProjectTitle	Proposer	Agency	Cont'd	Expected	Request	FY99-02
99263	Assessment, Protection and Enhancement of Salmon Streams in Lower Cook Inlet	W. Meganack, Jr./Port Graham Corporation	ADFG	Cont'd 3rd yr. 5 yr. pro	\$23.6 ject	\$67.2	\$113.2
This proje and enhai barriers to the projec during the	ect will replace lost subsistence services by constructing enhance ncement will be implemented using instream fisheries habitat imposed of spawning, and wall-based rearing structures. Port Graham Co and coordinate with a professional fisheries scientist and resource field survey and during construction of the habitat improvement	ement projects on major salmon streams provement techniques, primarily creatior rporation management, with advice from urce consultants. Local subsistence use structures.	in the Low of spawni an ADFG rs will be e	ver Cook li ng channe fisheries s mployed a	nlet spill area els, removal c specialist, will s technical a	a. Protecti of natural I supervise ssistants	on 9
99273	Surf Scoter and Goldeneye Life History and Ecology: Linking Satellite Technology with Traditional Knowledge to Conserve the Resource	D. Rosenberg/ADFG	ADFG	Cont'd 2nd yr. 3 yr. pro	iect	\$237.6	\$477.6
This proje informatio Sound and and little is is unknow wintering a Watch pro	ect will study the life history and ecology of surf scoters and Barro on will be integrated with traditional ecological knowledge. Scote d Lower Cook Inlet harvest scoters and goldeneyes for subsisters s known of their life history, ecology, and distribution. The nestin with strow's goldeneyes will be marked with surgica areas. Local participation will be solicited and information will be ogram.	ow's goldeneyes that over winter in Princ r and goldeneye populations in Alaska a nce purposes. Scoters are among the le ng and molting distribution of Barrow's go ally implanted satellite transmitters to de e conveyed to local residents through the	e William re declining ast studie oldeneyes fine the bre Chugach	Sound and g. Commu d of North wintering i seding are School Di	I lower Cook unities in Prin American wa n Prince Willi as, molting a strict and You	Inlet. This ice William aterfowl iam Sound reas, and uth Area	1
99333	Sea Otter Monitoring	B. Henrichs/Native Village of Eya	C DOI	New 1st yr. 4 yr. pro	ject	\$250.0	\$1,000.0
Orca Bay grinding u in some yo the bones to other n an idea; if	in front of Eyak/Cordova, is the home to one of the largest sea on p fish waste and pumping it into the bay has provided an addition ears. Sea otters have eaten everything else that there is to eat a in this fish waste have poked holes in sea otters' intestines and marine mammals and other fish. This could possibly cause major recommended for funding, a Detailed Project Description and d	otter herds in the world. Over the past two nal food source for sea otters. The amo and this fish waste is a main staple of the they have picked up parasites from this or problems with sea life throughout Alas etailed budget will need to be prepared.]	venty years unt of fish eir diet. Re fish waste ka. [NOTE	s, the local waste read ecent auto . These p E: This pro	processors' ches 50 millio psies have si arasites coul oposal was si	practice o on pounds how that d spread ubmitted a	f

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99335	Construction and Operation of a Sockeye Hatchery in Nanwalek	P. McCollum/Nanwalek	ADFG	New			
This proje Descriptic	ect will construct a sockeye hatchery in Nanwalek.[NOTE: This pon and detailed budget will need to be prepared.]	proposal was submitted as an idea; if reco	ommendeo	l for fundir	ng, a Detaileo	d Project	
99405	Port Graham Salmon Hatchery Reconstruction	E. McMullen/Port Graham Village Council	ADFG	New 1st yr. 1 yr. proj	ject	\$777.5	\$ \$777.5
This proje the rehab commerci efforts. T fire.	ect will help rebuild the Port Graham salmon hatchery that was d ilitation and enhancement of local pink salmon, sockeye salmon ial fisheries. These stocks are of major social, cultural and econ his project will help fund design, engineering, site preparation, a	estroyed in a fire on January 13, 1998. T and coho salmon stocks for the benefit c nomic importance to the area and sustaine and construction of a salmon hatchery to r	The Port G of both the ed injuries eplace the	raham hate local subs resulting f	chery was in istence and rom oil spill o was destroye	volved in clean-up ed in the	
99410 This proje was subm	Lower Cook Inlet Youth Area Watch ect will create a Youth Area Watch program (similar to Project /2 nitted as an idea; if recommended for funding, a Detailed Project	L. Elvsaas/Seldovia Village Tribe 10) for students from Seldovia, Port Grah t Description and detailed budget will nee	ADFG am, and N d to be pre	New anwalek. pared.]	[NOTE: This	s proposa	4
99416	O'Brien Creek Restoration	J. Christensen/Chenega Bay IRA	USFS	New 1st yr. 2 yr. pro	iect	\$12.0) \$12.0
This prop would fun earthquak actual reh	osal was submitted in letter form; the full proposal will be develo d restoration of O'Brien Creek, near the village of Chenega Bay se created a berm across the lower portion of the creek, prevent nabilitation would be conducted in FY 2000.	ped with the assistance of the U.S. Fores . The creek historically had a run of coho ing access for spawning salmon. A feasi	st Service s salmon, t bility study	soon after out uplifting would be	April 15. The during the 1 conducted ir	e project 1964 n FY 99;	

							Total
Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99444	Community-Based Harbor Seal Research	M. Riedel/Alaska Native Harbor Seal Commission	ADFG	New 1st yr. 2 yr. pro	ject	\$69.2	\$74.2
Harbor se Sound an the fall-wi region by observed	eal numbers in Port Gravina in eastern Prince William Sound re not. This one-year pilot project will use the knowledge and inter-spring is critical for understanding factors affecting harbor harbor seals, 2) contrast the age composition of seals in eac differences in harbor seal use, and 4) document potentially s	are showing strong signs of recovery while the expertise of local subsistence hunters. Evant or seal recovery. Vessel-based surveys will the region, 3) identify regional and ecological sensitive harbor seal habitats or temporal period.	those at oil luating fac be used to factors tha riods that r	ed sites in tors affecti o: 1) contra t may be a may affect	central Princ ing harbor se ast seasonal associated wi recovery.	ce William eals during use of eac ith) ch
99483 This proje idea; if re	Seldovia Coho Salmon Enhancement ect will create a coho salmon return to Seldovia Bay as a mea commended for funding, a Detailed Project Description and d	L. Elvsaas/Seldovia Village Tribe ans of enhancing subsistence resources. [N letailed budget will need to be prepared.]	ADFG OTE: This	New proposal	was submitte	ed as an	
99484	Construction of Chignik Lake Subsistence Building and Repair of Sod House	V. Aleck/Chignik Lake Village Council	ADFG	New 1st yr. 1 yr. pro	ject	\$341.3	\$341.3
[NOTE:	This proposal was submitted as an idea; if recommended for	funding, a Detailed Project Description and	detailed bu	dget will n	eed to be pre	epared.]	
99485	Port Graham Youth Subsistence Education Project	E. McMullen/Port Graham Village Council	DOI	New 1st yr. 2 yr. pro	ject	\$10.7	⁷ \$21.4
This proje elementa resources program life skills, educatior	ect will assist in a summer education program aimed at the re ary aged children will be involved in a week-long course teach s, hunting and gathering techniques, survival skills in the wild will take place in the vicinity of Port Graham. EVOS funds wil as well as other aspects of subsistence. Additionally, the fur nal supplies, and other miscellaneous items. Port Graham Vil	vitalization of subsistence in Port Graham. ing life skills with regard to subsistence. The erness, safety in outdoor activities, and trad Il assist in bringing specialized speakers to t nds will go toward the acquisition of supplies llage Council will obtain the other needed fur	Three grou ese subjec itional know he prograr such as ca nding from	ups of yout ts will inclu wledge reg n to talk at amping ge other sou	th, teens, pre ude conserva jarding gathe pout kayak sa ar, cooking g rces.	teens, an ation of ring. The afety and gear,	d

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99497	Subsistence Processing Building/Biosampling Facility	J. Christensen/Chenega Bay IRA Council	ADFG	New 1st yr. 1 yr. pro	ject	\$64.2	\$64.2
This pro subsiste biosamp building knowled With this	ject will fund the construction of a Subsistence Processing and Bi ence harvesters to process game meat. Additionally, the building bling program. Biosampling will take place within the building, pro will also be used to educate the youth of Chenega Bay on tradition lige of how to harvest subsistence resources. Scarcity, fear of cor s building, local harvesters will have the ability to hold classes and	iosampling Facility in Chenega Bay. The will be used by the local participants in the tecting the biosamplers from the harsh ele onal methods of harvesting. The oil spill h ntamination, and other factors have limited d other similar activities.	building w e Alaska N ements of as created d the abilit	vill provide Native Hart Prince Wil d a genera ty for harve	shelter for lo oor Seal Con liam Sound. tion without f esters to take	cal nmission's The the youth out	
99502	Subsistence Meeting Hall	B. Henrichs/Native Village of Eyak	DOI	New 1st yr. 1 yr. pro	iect	\$400.0	\$400.0
This pro both loca Descript	ject will add meeting space to the Native Village of Eyak's new bual and regional, to be held at Eyak/Cordova. [NOTE: This proposition and detailed budget will need to be prepared.]	uilding, which is to be constructed during f sal was submitted as an idea; if recomme	TY 99. Th nded for f	nis will allow unding, a [v subsistenc Detailed Proj	e meetings ect),
99503	Restoration of Orca Inlet	B. Henrichs	DOI	New 1st yr. 4 yr. pro	ject	\$250.0	\$3,250.0
When m annually harbor. other se Researc around t Project I	hany of the Native Village of Eyak elders were young, Orca Bay w y and Eyak/Cordova was known as the "Razor Clam Capitol of the Many residents caught halibut in the bay. However, by 1998, this ha life has died. The 1964 earthquake helped kill the bay. The du ch needs to be done and then action taken to restore Orca Bay to the United States. It is time that Orca Bay is restored. [NOTE: T Description and detailed budget will need to be prepared.]	vas a rich ecosystem. There were a millio e World." There were many other species ngs have changed in Orca Inlet. There ar imping of millions of pounds of ground up what it was when we were children. Bay This proposal was submitted as an idea; if	n pounds of clams e a few se fish waste s, lakes a recomme	of dungend within wall ea otters in e has smot nd rivers a nded for fu	ess crab har king distance the bay, but hered the ba re being rest inding, a Det	vested e of the loca t most y. ored ailed	al

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99507	Nuchek Subsistence Camp	B. Henrichs/Native Village of Eyak	DOI	New 1st yr. 4 yr. proj	ect	\$250.0	\$1,000.0
With the perfect lo Chugach Camps," for fundin	many battles over subsistence raging, there needs to ocation would be Nuchek, located near Hinchinbrook E Alaska Corporation has operated spirit camps at this where the subsistence way of life could be passed or ng, a Detailed Project Description and detailed budget	be a way and place to pass the traditional subsistence Entrance on Hinchinbrook Island. This was the ancier location. These have gone over very well. These fact to the younger generations. [NOTE: This proposal will need to be prepared.]	e way of nt home c cilities co was subn	life on to fu f many of uld be use hitted as an	uture genera the Aleuts in d for "Subsis n idea; if reco	tions. A Alaska. tence ommende	d
99508	Copper River Salmon Run Data Improvement Pr	oject B. Henrichs/Native Village of Eyak	DOI	New 1st yr. 4 yr. proj	iect	\$436.4	\$2,519.1
This proje install mo Plan usin took awa fishing to on the fis detailed t	ect will protect and enhance the salmon runs on the C odern automated run monitoring and data collection ec ing data collected over a five year period. The Copper by many of the other subsistence areas. The Copper I ourban sport and personal use fishing. Sufficient data whery in the upriver tributaries. [NOTE: This proposal budget will need to be prepared.]	Copper River to replace the lost subsistence resources quipment on the Copper River tributaries and will prov River is the remaining strong subsistence resource the River fishery is at risk because of a shift in resource us a is not available from the Miles Lake Sonar at the mon was submitted as an idea; if recommended for fundir	s in Prince vide input nat people ise from s uth of the ng, a Deta	e William S into the Fi have ava ubsistence river to me illed Projec	Sound. The sheries Man ilable since and commonitor new p onitor new p ot Description	project will agement the spill ercial ressures n and	
99521	Lower Cook Inlet Salmon Ecology Pilot Study	P. McCollum/Nanwalek	ADFG	New		\$112.8	\$112.8
Improving pilot study release o in the spr both spec salmon a	g existing knowledge of the survival mechanism of pin y will sample outmigrating salmon smolts for growth, is or outmigration). By sampling these variables the stud- ring of 1998. Opportunistic sampling of smolts will occ cies. Plankton and sea surface temperature records v are essential components of the subsistence and components of the subsi	hk and sockeye salmon in southeastern Lower Cook la marks (coded wire tags), stomach contents (for prey s dy will document the growth rate and outmigration timi cur when feasible with hopes of learning important sta will be collected for possible future correlation with ob- mercial fisheries in the Port Graham and English Bay	nlet is the species ic ing of the aging area served gr drainage	main goa lentification se two imp as and pre- owth. Bot	l of this proje n) and timing ortant salmo ferred beach h pink and s	ect. The I (days sin In species I habitat fo lockeye	ce r

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
Reduction of	of Marine Pollution					<u>.</u>	
99304	Kodiak Island Borough Master Waste Mangement Plan	J. Selby/Kodiak Island Borough	ADEC	Cont'd 2nd yr. 2 yr. proje	ect	\$1,846.9	\$1,846.9
This proje Master W Phase II E Systems I managem	ect will address marine pollution derived from land-based sources a daste Management Plan developed in Phase I addressed communi EVOS funding will provide a portion of the funding needed to imple Development: <i>Fixing What is There</i> . This comprehensive initiative ment systems, and will promote local responsibility.	and waste management practices of th ity-based sources of marine pollution a ment the recommendation selected by e of systems development will provide	e remote c ind resulted the comm capital imp	ommunities d in four rec unities as t rovements	s of Kodiak l commended he highest p to existing v	sland. A initiatives priority vaste	
99391	Cook Inlet/Prince William Sound Information Management/Monitoring System	J. Hock/ADEC, D. Mortenson/ADI	NR ADEC	New 1st yr. 2 yr. proje	ect	\$675.5	\$990.5
This proje The syste to underst from the to pollution. making in promote to	ect will develop an integrated data base containing digital environment of will facilitate access to data from a wide variety of sources about tanding the environment of the watersheds. This database will su wo watersheds will provide the cornerstone of this system thereby From both public policy and natural resources management persp formation derived from restoration activities and water quality mor he recovery of the injured resources and services.	nental and spatial data for the Cook Inle at the resources and services injured b pport monitoring, management, and re facilitating monitoring of both baseline pectives, this project will protect the go hitoring programs available for manage	et and Prind y the spill a storation. N parameter vernments ment of the	ce William 3 as well as b Water quali rs and chro investmen watershee	Sound wate base data set ity data sets nic sources at in restorat ds in a manr	rsheds. ts importa derived of marine ion by ner that wi	nt
99415	Prince William Sound/Kodiak Waste Management Community Awareness Training Video and Manual	K. Merrell/PWSEDC, K. Hartwell/Wild North Productions	ADEC	New 1st yr. 1 yr. proje	ect	\$81.6	\$81.6
This proje the Kodial new waste Karluk, La	ect will develop a community awareness video to facilitate impleme k Island Borough Master Waste Management Plan (Project /304). e management procedures and the new drop-off sites is a logical arsen Bay, Old Harbor, Ouzinkie, Port Lions, Chiniak, Chenega Ba	entation of the Prince William Sound W The need for an awareness and traini extension of the waste management pl ny, and Tatitlek.	aste Manag ng progran ans. Affec	gement Pla n to help vil ted villages	in (Project / lagers make s include Ak	115) and e use of niok,	

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99514	Marine Pollution Reduction for Nanwalek and Port Graham	E. McMullen/Port Graham Village Council	ADEC	New 1st yr. 1 yr. proj	ect	\$278.1	\$278.1
This projec of the Sour implementa objectives: communitie	t will help prevent marine pollution that is generated from land-base of Waste Management Plan (Project /115) and the Kodiak Island V ation phase of Environmental Operation Stations would be a logical 1) improvement of the overall management of solid and oily waste es.	ed sources within the Port Graham/Na Vaste Management Plan (Project /304 I step within these communities. The e; and 2) creation of a comprehensive	anwalek co), the Port constructi used-oil r	ommunitie: : Graham/N on will acc nanageme	s. Following lanwalek omplish two nt system in	the mode main the	1
99515	Lower Kenai Peninsula Regional Chronic Marine Oil Pollution Project	M. Mayo/TLI Systems, Inc.	ADEC	New 1st yr. 2 yr. proj	ect	\$200.9	\$574.7
This two-ye bilge water participation ensure that protect the	ear community pilot planning and implementation project will reduce or pollution from other oil uses discharging into the coastal areas. In by Homer and Kenai. Control options include collection facilities marine areas of the lower Kenai Peninsula affected by the oil spill marine environment of the Alaska SeaLife Center.	e, control, and prevent chronic marine Focus areas include Seward, Port G including a collection boat, separator are not further weakened by continui	e oil pollutio raham, Na s, filters, a ng oil cont	on, such a anwalek, ai nd oil burn amination,	s discharges nd Seldovia, ers. The pu and to impr	of oily with rpose is to ove and	0
	·						
Habitat Impro	ovement						
99180-CLO	Kenai Habitat Restoration and Recreation Enhancement	A. Weiner/ADNR, K. Cromery/USF	S ADNR	Cont'd 4th yr. 4 yr. proj	\$306.6 ect	\$330.1	\$330.1
Adverse im habitats ha and wildlife Restoration educationa	pacts to the banks of the Kenai River total approximately 19 miles ve been impacted by trampling, vegetation loss and structural deve habitat, enhance and direct recreation, and preserve the values a /enhancement techniques will include revegetation, streambank re I interpretive displays.	of the river's 166-mile shoreline, inclue elopment. The project's objectives and nd biophysical functions that the ripar estoration, elevated boardwalks, floati	iding 5.4 ri e to restor ian habitat ng docks,	iver miles o e injured fi t contribute access sta	of public land sh habitat, p es to the wat airs, fencing,	I. Riparia rotect fish ershed. signs, an	n d

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd I	FY99 Expected	FY99 Request	Request FY99-02
99230	Valdez Duck Flats Conceptual Management Plan	J. Isaacs/PWSEDC	ADNR	Cont'd 2nd yr. 1 yr. projec	t	\$69.6	\$69.6
The Valde acquisitio informatic Developn College ir	ez Duck Flats Conceptual Management Plan is being completed on of parcels of property from the University of Alaska and a priva- on program related to the Duck Flats, sensitivity to impact, and re- ment Council will work with the cooperating agency group, the Ci- n developing a suitable monitoring and education program.	in FY 98 (Project 97230). Project cor ate owner. However, it is appropriate t elationship to resources injured in the o ty of Valdez, the Valdez School district	ntinuation in F to initiate desi oil spill. The f t and the Prine	Y 99 is deper gn of a monit Prince Willian ce William Sc	ndent on s oring and n Sound E ound Com	successfu public conomic munity	
99314	Homer Mariner Park Habitat Assessment and Restoration Design Project	J. Cushing/City of Homer	ADNR	New 1st yr. 1 yr. projec	t	\$102.1	\$102.1
In its pres population botanical, enhancer migrating	ent state, Mariner Park is a highly stressed marine habitat in de ns while incompatible and environmentally destructive human us , biological, and hydrological field studies coupled to community ment plan. This plan will establish the optimal hands-on restorat shorebirds and promote recreationally compatible use of the are	cline. The area is experiencing a dran ses flourish. From the results of a com information it is possible to develop a ion program to increase and diversify t ea by residents and tourists.	natic reductio prehensive fe comprehensiv the intertidal f	n in marine b easibility stud ve habitat res auna, which,	iota and s y that incl toration a in turn, wi	horebird udes nd II benefit	
99339	Prince William Sound Human Use and Wildlife Disturbance	K. Murphy, L. Suring/USFS	USFS	Cont'd	\$53.1	\$70.2	\$70.2
	MODEI			2nd yr. 2 yr. projec	t		
This project potential of maps of t concentra prolonging eliminate but specifi	ect will use geographic information system (GIS) techniques to d changes in those use patterns as a result of additional developm he distribution of injured resources. This will provide a basis to i ations resulting in disturbance. Disturbance of injured wildlife ma g the time to recover. Identification of potential areas of disturba or minimize the negative effects of increasing human use. All in fic management recommendations will be developed for harbors	escribe current human-use patterns in nent. Maps of present and projected h identify areas where there may be con ay result in decreased productivity exa- ance will allow development of recomm njured resources and subsistence spec- seal, pigeon guillemot and cutthroat tro	n western Prin Juman-use pa Iflicts betweer cerbating the nended mana- cies will be ad put.	ce William So tterns will be human use effects of the gement pract dressed in a	ound and incorpora and wildlif oil spill a ices that r general a	to model ted with re nd may pproach	

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99387	South Spruce Street Beach Parking	K. Kornelis/City of Kenai	ADFG	New 1st yr. 1 yr. pro	ject	\$165.9	\$165.9
The Alas the state mouth of Protectio placed to	ka Department of Fish and Game has opened a seasonal dip n take advantage of. This project will provide proper access in a the Kenai River and will relieve the heavy fishing pressure ups n Project. It will provide additional parking and reroute an exist help protect the wetlands in the future.	net fishery at the mouth of the Kenai Rive a way that will not damage the area or ca stream. This project could be considered ting trail to this parking area. Adjacent d	er that thousa ause user pro d Phase II of t amaged wetl	ands of "dip blems to th the Kenai I ands will b	o netters" fro ne dip net fis Beach Dunes e repaired a	m all over hery at the s nd barriers	e s
99388	Kenai River Mouth South Side Access and Parking	K. Kornelis/City of Kenai	ADFG	New 1st yr. 1 yr. pro	iect	\$828.5	5 \$828.5
The Alas the state mouth on the south often cros	ka Department of Fish and Game has opened a seasonal dip n take advantage of. This project will provide proper access in a n the south side of the Kenai River. It will relieve the heavy fish n side of the Kenai River mouth. "Dip netters" are presently acc ssing private property.	net fishery at the mouth of the Kenai Rive a way that will not damage the area or ca ing pressure upstream. This project will cessing the area with 4 x 4 vehicles alon	er that thousa ause user pro build a road g the beach o	ands of "dip blems to the with a part damaging t	o netters" fro ne dip net fis king lot at the the environm	m all over hery at the e end neal hent and	e r
99399	Eastern Prince William Sound Human Use and Wildlife Disturbance Model	K. Murphy, L. Suring/USFS	USFS	New 1st yr. 3 yr. pro	ject	\$38.6	\$\$213.5
This proje Prince W eastern s patterns human us recovery develope	ect is an expansion of the human-use and wildlife disturbance r filliam Sound (Project /339). The project will use geographic inf sound and to model potential changes in those use patterns as will be incorporated with maps of the distribution of injured reso se and wildlife concentrations. Disturbance of injured wildlife m . All injured resources and subsistence species will be address ad for harbor seal, pigeon guillemot and cutthroat trout.	model developed for western formation system (GIS) techniques to de a result of additional development. Map ources. This will provide a basis to ident nay result in decreased productivity exact sed in a general approach but specific m	escribe currer os of present ify areas whe cerbating the nanagement r	nt human-u and project ere there m effects of the recomment	ise patterns ited human-u nay be conflic the spill and dations will b	in the use cts betwee prolonging e	en g

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
99437	Selecting and Propagating Local Spruce Resistant to the Tree Killing Spruce Beetle	J. Alden/UAF	ADFG	New 1st yr. 2 yr. pro	ject	\$63.6	\$204.1
This proje relationsh	ect will select and propagate spruce beetle resistant trees in an effor- ip. The proposal was not submitted in final form; the cost and dura	ort to secure and maintain a long term ation estimates are rough.	stable bala	ince in the	Picea - spru	ce beetle	
99495	Soldotna Swiftwater Park Recreational Access and Habitat Restoration Project	S. Bonebrake, D. Bower/City of Soldotna	ADNR	New 1st yr. 1 yr. pro	ject	\$252.4	\$252.4
This proje designate Finally, fo provide a	ect will renovate and expand the existing "volunteer" boardwalk wh d fishing and viewing stations along the Kenai River. It will also pr ot traffic will be controlled and previously damaged bank areas wil naturally functioning riparian zone.	ich was installed in 1995 to provide ad rovide a multi-use platform at the boat I be stabilized, restored and protected	ditional pro launch for using a va	tected peo boat stagin riety of me	destrian acce ng and other thods intend	ess to uses. ed to	
99496	Soldotna Centennial Park Uplands Access Trail Project	S. Bonebrake, D. Bower/City of Soldotna	ADFG	New 1st yr. 1 yr. pro	ject	\$83.5	\$83.5
The Center project pro the river b reducing t	ennial Park Upland Trail project was first proposed as part of the h ovided habitat restoration, elevated light penetrating walkway at th bed for angler use. The Upland Trail Project will provide a safe, du trampling of the surrounding area and allowing natural revegetation	abitat and access improvements proje e top of the park's upstream cutbank a trable path for campers and day use vi n of the disturbed areas.	ect complet area, and the sitors to re	ed in 1997 he three se ach the ba	(Project /18 ets of stairs a ink-top walky	0). That ccessing vay,	

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
Habitat Prot	ection		<u> </u>				
99126	Habitat Protection and Acquisition Support	C. Fries/ADNR, D. Gibbons/USFS G. Elison/DOI	S, ADNR	Cont'd			
appraisals completior of land. In large and s	, on-site inspections, hazardous materials surveys, land surveys, of habitat protection negotiations. The Council has completed r addition, 32 small parcels encompassing more than 3,500 acress small parcels.	, timber cruises and reviews, and other negotiations on 13 large parcels, result s have been acquired. Negotations and	services n ng in the p d closing ac	ecessary for rotection of ctivities cor	f about 645,0 f about 645,0 ntinue on ado	ssful 000 acres ditional	
Recreation a	and Tourism						
99517	Prince William Sound Regional Cultural and Eco-Tourism Center	F. Irick/Kueuit Foundation, Inc.	USFS	New 1st yr. 3 yr. proj	ject	\$687.9	\$1,834.9
This projec This will be the history resources	ct will outline an approach to restore recreation and tourism usag e done by encouraging visitors to come to see and appreciate 1) of the oil spill and initial assessment and cleanup activity as well of the area, including the people and traditional lifestyles, and 3)	e of the wilderness and traditional Nati the remaining pristine beauty of the so I as longer-term resource restoration end the importance of continuing good stee	ve culture i und and th fforts and tl wardship o	n the Princ e Native cu ne impact c f the natura	e William So ultures of the of these on a al resources	ound region area, 2) Il the of the	۱.

area under the planning and control of its residents.

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
Ecosystem Sy	ynthesis						
99278	Development of an Ecological Characterization and Site Profile for Kachemak Bay/Lower Cook Inlet	G. Seaman/ADFG	ADFG	New 1st yr. 2 yr. proje	ct	\$105.2	\$140.2
This project or socioecor products pro a Geographi future restor Northern Gu	will develop an ecological characterization and site profile to collect nomic information on the Kachemak Bay/Lower Cook Inlet area. To aduced in electronic format and on paper. Project components inc ic Information System (GIS); and 3) an annotated bibliography and ation opportunities, 2) assist in the use and protection of land, 3) p all of Alaska, and 4) assist in agency management and planning fo	ct, synthesize, analyze, and documer 'he project will result in the developm lude: 1) an ecosystem narrative desc I research summary/tracking system. plan for a possible long-term ecologic r the Lower Cook Inlet area.	nt available ent of a da ription; 2) The proc al monitor	e physical, b atabase man a spatial da ducts will be ing and rese	biological, a nagement s ta compon used to: 1 earch progr	nd human system with ent using) identify am in the	1
99300	Synthesis of the Scientific Findings from the Exxon Valdez Oil Spill Restoration Program	R. Spies/Applied Marine Sciences	ADNR	Cont'd 3rd yr. 3 yr. proje	\$80.0 ct	\$80.3	\$80.3
Research sp single infusio maximum be goal of this p the foundatio develop and	consored by the Trustee Council has provided an astonishing amo on of data on natural resources in the northern Gulf of Alaska. The enefit to the public and management agencies, and to provide a co project to have made substantial progress on such a synthesis in t on for long-term monitoring in the spill area. The specific objective apply food-web models of the spill area ecosystem, and developi	unt of information on the ecology of t ere is an urgent need to synthesize th ogent demonstration of the overall val ime for the 10-year anniversary of the s involve coordinating work on synth ng a long-term plan for research and	he spill and ne informa lue of the l e oil spill, a esis produ monitoring	ea and repre tion across Restoration and to use th ucts, facilitat g in the spill	esents the projects to Program. his synthes ing the effo area.	argest realize its It is the is to build rts to	
99330-BAA	Mass-Balance Models of Trophic Fluxes in EVOS-Impacted Areas	D. Pauly/UBC, S. Pimm/U. Tenn	NOAA	Cont'd 2nd yr. 2 yr. proje	\$185.5 ct	\$185.6	\$185.6
This project These mass gathered by the public do databases o in late Janua region, 3) ex	will construct, validate, and disseminate whole food-web models of -balance models of flows among trophic levels and among ecosyst various research groups since the spill. The second year of this p omain, incorporating an interactive graphic version of the Prince W in the biology and local/traditional knowledge of the marine organis ary 1999 devoted to constructing an Ecopath model of the Kenai s ctended study and shelf model development by project staff.	of Prince William Sound and adjacent stem components are ideally suited to project will consist of three main comp filliam Sound trophic model develope sms of Prince William Sound and bey helf and outer Cook Inlet, attended by	marine ar o synthesiz conents: d during y ond; 2) th y research	reas affected ze the exten 1) the produ ear 1 as we e option of a hers from the	d by the oil sive inform ction of a C Il as user-fr a two-day w e Gulf of Al	spill. ation D-ROM fo iendly rorkshop aska	pr

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 F Request F	Request Y99-02
99360-BAA	The <i>Exxon Valdez</i> Oil Spill: Guidance for Future Research Activities	C. Elfring/Polar Research Board, NRC	NOAA	New 1st yr. 3 yr. proje	ect	\$194.4	\$430.8
The Polar R research an research an consider the guidance on	esearch Board (PRB) will critique the scope, content, and structure d monitoring in the northern Gulf of Alaska. The committee formed d monitoring activities sponsored by the Trustee Council to determ extensive literature produced to identify data gaps and conflicting the nature and scope of future activities.	e of the draft science plan the Truster d to accomplish this task will also rev nine if they were of appropriate scope conclusions. The lessons learned fr	e Council iew the da and carrie om the ref	s preparing mage asse ed out effec rospective	g to guide lo essment and ctively, as w review will g	ng-term I restoration ell as give	1
99361-BAA	Dynamic Graphical Techniques for Ecosystem Synthesis, Communication and Product Delivery	J. Allen/PWSSC, T. Cooney/UAF	NOAA	New 1st yr. 3 yr. proje	ect	\$95.0	\$266.2
As the tenth ecosystem-l techniques of technologies by focusing	anniversary of the oil spill approaches, there is an increasing need level research results to the public, resource managers, policy mal developed within the Sound Ecosystem Assessment (SEA, Project s to support the broader synthesis tasks of the Trustee Council's re on graphical approaches, including advanced computer imaging a	d for information synthesis, translatio kers and the wider scientific commun t /320) have proven useful in this con esearch program. The proposed wor nd presentation technology.	n, and cor ity remain text. This k will com	nmunicatio s a critical (project will plement ex	n. Transfer challenge. A l extend sele isting synthe	of A number of ected SEA esis efforts	F
99362	Intertidal Invertebrate and Vegetation Communities Associated with NOAA Environmental Sensitive Index (ESI) Mapping Types in Southeast Alaska	D. Rudis/USFWS	DOI	New 1st yr. 1 yr. proje	ect	\$20.1	\$20.1
NOAA ESI r ESI maps for the ten ESI determine if developed; a available ele	maps used during the oil spill were found to commonly have inaccu or Southeast Alaska in 1990 included a ground-truthing effort by D0 types in this region. These data have not been collated or analyze there are discreet intertidal communities for each ESI type. An ap an additional appendix with subsistence/traditional use information ectronically and as hard copy.	arate shoreline typing and minimal int OI and ADFG biologists. Data were o ed. This project will put these data int opendix including tables of intertidal c will be developed by a Southeast tril	ertidal zor collected fr to a usable ommunity cal biologis	e biologica om 167 sit format an species as st. These a	al data. Prep es and 488 d statisticall ssemblages appendices	paration of plots for y will be will be	

Total

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Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request t FY99-02
99368	Maps Depicting Environmentally Sensitive Areas in Prince William Sound (Summary Seasonal Maps Only)	J. Whitney/NOAA	NOAA	New 1st yr. 1 yr. pro	ject	\$56.4	\$56.4
A series o series was sensitivity maps, pro	of seasonal maps depicting environmentally sensitive areas in Prin s produced in paper format in 1988. However, these maps need t of the natural resources in Prince William Sound. NOAA propose oduced at a scale of 1:250,000 (previous maps were at 1:333,300)	the William Sound will be product to be updated with new informat es to integrate and depict the mo the maps will be produced as	ced in both hardco ion on the distribu ost current informa s posters, folded n	py and dig tion, abun ation onto naps, and	gital formats. dance, life hi an updated s a digital proc	A previo istory, and series of duct.	us 1
99369	Maps Depicting Environmentally Sensitive Areas in Prince William Sound (Summary Seasonal and Detailed Maps)	J. Whitney/NOAA	NOAA	New 1st yr. 1 yr. pro	ject	\$158.2	2 \$158.2
A series o digital forr with new i and depic summary The 42 de of use tha	of summary seasonal and detailed maps depicting environmentally mats. A previous summary series were produced in paper format information on the distribution, abundance, life history, and sensitiv t the most current information onto an updated series of maps, pro- maps, and 1:63,360 (previous maps at this same scale) for the de- tailed maps will be bound in atlas format. Both will be rendered a in just one scale alone, and preparing them together will be very co	v sensitive areas in Prince Willia only in 1988 and 1983, respecti vity of the natural resources in F oduced at a scale of 1:250,000 (etailed maps. The summary ma s a digital product. These two s ost effective.	m Sound will be p vely. However, th Prince William Sou (previous maps w ps will be produce scales of maps wil	roduced ir nese maps ind. NOA/ ere at 1:33 ed as posto I allow for	h both hardco need to be o A proposes to 3,300) for the ers and folde a much broa	opy and updated o integrate ed maps. der range	e
99382	<i>Exxon Valdez</i> Oil Spill Information-Transfer Workshop for Managers	D. Gibbons/USFS	USFS	New 1st yr. 2nd yr. g	project	\$35.3	\$ \$55.0
Communic encourage communic the manage their own managers by develo	cating the results of the restoration program has been an ongoing ed to publish and present their results in order to make informatior cate information to the public. One audience that has not been the gement of injured resources and services throughout the spill area agencies, but unaware of information gathered by other agencies. Is through a two-to-three day workshop specifically designed for mapping guestions to be addressed and facilitating an extended quest	activity for the Restoration Offic n available to the scientific comme focus of these efforts are the n a. These individuals may be info . This project will facilitate comme anagement purposes. An intera- tion and answer period.	ce. Scientists con nunity. The Trust nid-level manager ormed about resto nunication of the r ogency group will o	ducting re ee Counci s who mal ration acti restoration direct the v	storation pro l also works ke daily decis vities conduc program wit vorkshop pre	jects are to sions in cted by th esentation	s

			Lead	New or	FY99 Expected	FY99 Pequest	Total Request
Proj.No.	ProjectTitle	Proposer	Agency	Contu	Lybecieu	Request	1100-02
99394	Development of Maps Depicting Environmentally Sensitive Areas in Prince William Sound	J. Michaelson, K. Boggs/UAA	ADFG	New 1st yr. 1 yr. pro	ject	\$116.7	\$116.7
This proje use by oi database broad-ba fall) will b oriented	ect will develop a database that identifies areas environmentally ser il response teams and planners who need detailed information in re- e will be constructed using Arc/Info software and contain approxima- sed user audience through its distribution over the Internet on the E be developed, each presenting a broad, regional overview of enviror to the general user, similar to seasonal maps produced by the Natio	nsitive to potential oil spills within Prin gard to species rarity and seasonal u tely 66 data layers. Access to this inf VOS home page. A series of four se mentally sensitive resources. These onal Oceanic and Atmospheric Admin	ice William se of critica formation w easonal map e will be prin histration in	Sound. It I habitat ar ill be made os (winter, narily for d 1988.	will provide a reas. The sp available to spring, sum isplay purpo	a tool for atial ner, and ses and	
99455	An Investigation of the Data System for the EVOS Long Term Monitoring Program	C. Falkenberg/ECOlogic Corp.	ADNR	New 1st yr. 1 yr. pro	ject	\$49.9	\$49.9
This proje addition t that prog backgrou data syst	ect will investigate the issues relating to the creation of the data deli to data collection, data delivery will prove to be a critical component ram is planned the data delivery issues need to be integrated into th and research into existing systems that deliver similar data. We will tem issues that need to be included in the planning process.	ivery system needed by the long-term of the success of the long-term mon he process. This project will outline s not be proposing a specific design fo	n monitoring itoring and i some of thos or this data s	and research p research p se issues a system but	arch program rogram. The and provide rather prese	n. In erefore, as enting the	
99456	Evaluating Scientific Sampling Conducted During the Oil Spill, Synthesizing Lessons Learned, and Incorporating Them into Natural Resource Injury Assessments	A. Crook/ADEC	ADEC	New 1st yr. 2 yr. pro	ject	\$325.0	\$475.0
Since the in the spi methods, appropria environm	e oil spill, a tremendous amount of scientific research has been cond ill impacted area. Despite this wealth of information, there has been , studies, and restoration projects were effective and which were no ate, the University of Alaska, Exxon Corporation, and private contra- mental impacts and better prepares state and federal resource agend	ducted on the impacts of the spill and n no comprehensive evaluation and c it. This project will review scientific re ctors, and create a scientific sampling cies to assess injuries in the event of	recovery o ompilation t esearch find g protocol th another spi	f injured re to determin lings from nat most ef ill.	esources and he which sam agencies, an fficiently docu	l services npling d where uments	

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
Administration	n, Science Management, and Public Info.						
99100 This project the Trustee efforts includ Restoration	Administration, Science Management, and Public Information provides overall support for administration and implementation of Council's core staff working at the direction of the Executive Direc ding the 17-member Public Advisory Group (PAG), and support fo Work Force.	All Trustee Council Agencies the restoration program through the l tor, the Chief Scientist and the scient r Trustee agency participation in the	ALL Restoration ific peer re restoration	Cont'd n Office. I eview proc program a	\$2,500.0 t includes fur ess, public ir as part of the	nding for volvemen	it
99470 In March 19 overview se Sea Grant F public, and a	Symposium on the 10th Anniversary of the <i>Exxon Valdez</i> Oil Spill 99, the 10th anniversary of the oil spill, the Trustee Council will sp ssion on the restoration program and its achievements, followed b Program and the Prince William Sound Regional Citizens Advisory any persons who conducted research on EVOS or other oil spills a	Restoration Office onsor a five-day symposium in Ancho oy more technical session on such top Council will be cosponsors of the eve are invited to submit abstracts for oral	orage. The bics as soc ent. The s or poster	New 1st yr. 1 yr. proj e symposiu cioeconom ymposium presentati	ect um will open ic impacts. will be open ons.	with an The Alaska to the	a
99471 The <i>Exxon</i> M and a recover formal studie evaluate the gather addit	Updating the Status of Services Reduced or Lost Due to the Oil Spill <i>Valdez</i> Oil Spill Restoration Plan (1994) identifies four injured serv ery objective for each. Although the status of these services was es have been sponsored by the Trustee Council to measure their e status of each service. Methods will likely include reviewing exis ional information.	Restoration Office ices subsistence, commercial fishin discussed briefly in the Update on Inj recovery. With an eye to the 10th an ting information as well as commissio	ng, recreat ured Resc niversary o ning agen	New 1st yr., 1 bion/tourisn burces and of the spill, cy person	yr. project n, and passiv Services (19 this project nel or outside	/e use 996), no will e experts t	to
INDEX OF PROPOSALS BY EARCH CLUSTER -- FY 99

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Total Request FY99-02
Research I	Facilities				·		
99474	Endowment of the Environmental Restoration Center at the University of Alaska Anchorage	G. Baker, H. Schroeder/UAA	ADFG	New 1st yr. 1 yr. proj	iect	\$2,256.5	\$2,256.5
This proje the Schoo communi solutions Trustee C	ect will establish an endowed environmental restoration center for re ol of Engineering. Establishing the center will achieve two goals. F ity education long after 2002 when funds are no longer received by for the protection and restoration of areas affected by the oil spill. Council to resolve existing questions for endowment of research cer	esearch and community education at First, it will provide a mechanism for fu Alaska. Such activities will help Alasl Establishment of the center will also s Inters and chairs.	the Univers nding conti ka develop serve as a t	sity of Alas nuing reco local expe est prograr	ka Anchorag very work ar rtise and per m that will all	le, within nd manent low the	
Project Ma	nagement	······································					
99250 Project m are mana	Project Management nanagement represents those costs incurred by the state and federa aged consistent with the Memorandum of Agreement and Consent [All Trustee Council Agencies al trustee agencies in fulfilling their res Decree, the Restoration Plan, and Tru	ALL sponsibility istee Cound	Cont'd to ensure f cil authoriz	that individua ation.	al projects	
Restoratior	n Reserve						
99424 In recogn funds to t	Restoration Reserve ition of the fact that complete recovery from the oil spill may not occ be used for restoration after the last payment is received from Exxo	All Trustee Council Agencies cur for decades, the Trustee Council n Corporation in September 2001. Th	ALL established ne \$12 milli	Cont'd the Resto	\$12,000.0 ration Reser nended for d	\$12,000.0 ve to hold eposit in	\$48,000.0
FY 99 wil three yea allocation	I be the sixth deposit into the reserve account and will bring the tota ars will provide a reserve of \$108 million plus interest. These funds of the funds to specific activities is expected to be made in FY 99.	al in the account to \$60 million. Annua will be used for restoration activities.	al deposits A decision	of \$12 mill by the Tru	ion in each c istee Counci	of the next I on	

INDEX OF PROPOSALS BY EARCH CLUSTER -- FY 99

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY99 Expected	FY99 Request	Request FY99-02
					All Proposals	Work P	lan Only
		Total Continuing Project	ts FY 99 Ex	pected:	\$20,822.3	\$6	5,287.3
		Total Continuing Project	ts FY 99 Re	equest:	\$22,360.8	\$8	9,513.9
		Total All Projects FY 99	Request:		\$39,882.4	\$23	8,779.0
		Total All Projects FY 99)-02:		\$101,797.3	\$49	9,693.9
		NOTE: 146 projects we The Work Plan Only col Waste Management Pla Habitat Protection Supp Management/Public Info	re received umn does no n, 99474/Un ort, 99100/A ormation, and	uing and 91 r projects 9930 ndowed Chai tion/Science Restoration Re	iew).)4/Kodiak r, 99126/ эserve.		