### RESOLUTION 02-07 OF THE EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL REGARDING THE FY 03 WORK PLAN

We, the undersigned, duly authorized members of the *Exxon Valdez* Oil Spill Trustee Council do hereby certify that, in accordance with the Memorandum of Agreement and Consent Decree entered as settlement of <u>United States of America v.</u> <u>State of Alaska</u>, No. A91-081 Civil, U.S. District Court for the District of Alaska, and after public meetings, unanimous agreement has been reached to expend funds received in settlement of <u>State of Alaska v. Exxon Corporation, et al.</u>, No. A91-083 CIV, and <u>United States of America v. Exxon Corporation, et al.</u>, No. A91-082 CIV, U.S. District Court for the District of Alaska, for necessary natural resource damage assessment and restoration activities. The Fiscal Year 2003 Work Plan Phase I is funded at \$3,725,200 as described in Attachment A. The monies are to be distributed according to the following schedule:

Alaska Department of Fish & Game Alaska Department of Natural Resources	2,240,000 329,500
SUBTOTAL TO STATE OF ALASKA	\$2,569,500
U.S. Department of the Interior National Oceanic & Atmospheric Administration	687,300 468,400
SUBTOTAL TO UNITED STATES OF AMERICA	\$1,155,700
TOTAL APPROVED	\$3,725,200

Funds must be spent in accordance with Attachments A and B, with the following conditions: (1) If a Principal Investigator (PI) has an overdue report or manuscript from

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a previous year, no funds may be expended on a project involving the PI unless the report is submitted or a schedule for submission is approved by the Executive Director; (2) a project's lead agency must demonstrate to the Executive Director that requirements of the National Environmental Policy Act (NEPA) are met before any project funds may be expended (with the exception of funds spent to prepare NEPA documentation); and (3) a PI for each project must submit a signed form to the Executive Director indicating their agreement to abide by the Trustee Council's data and report requirements before any project funds may be expended.

By unanimous consent, we hereby request the Alaska Department of Law and the Assistant Attorney General of the Environmental and Natural Resources Division of the United States Department of Justice to take such steps as may be necessary for withdrawal of the Fiscal Year 2003 Work Plan Phase I amount (\$3,725,200) from the appropriate account designated by the Executive Director. Approved by the Council at its meeting of August 6, 2002 held in Anchorage, Alaska as affirmed by our signatures affixed below.

DAVE GIBBONS

Forest Supervisor Forest Service Alaska Region U.S. Department of Agriculture

DRUE PEARCE Senior Advisor to the Secretary for Alaskan Affairs U.S. Department of the Interior

FRANK<sup>®</sup>RUE Commissioner Alaska Department of Fish and Game

CRAIG

Assistant Attorney General State of Alaska

JAMES W. BALSIGER Administrator, Alaska Region National Marine Fisheries Service

MICHELE BROWN Commissioner Alaska Department of Environmental Conservation

### Attachments:

- A Funding Distribution
- B Executive Director's Recommendation

### Attachment A to Resolution 02-07 *EXXON VALDEZ* OIL SPILL TRUSTEE COUNCIL 2003 Federal Fiscal Year Project Budgets October 1, 2002 - September 30, 2003

Agency	Cooperating Agency(s)	GEM	Project Number	Project Title	First FY 03 Court Notification
ADF&G			030052	Tribal Natural Resource Stewardship and Meaningful Tribal Involvement in GEM	30.1
	DOI-USGS, DOI-O/S		030100	Public Information and Administration	950.2
	· · · · · · · · · · · · · · · · · · ·		030190	Construction of a Linkage Map for the Pink Salmon Genome	54.5
	· · · · · · · · · · · · · · · · · · ·	G	030210	Youth Area Watch	98.6
	ADNR, DOI-USGS, NOAA	G	030250	Project Management	50.0
		G	030340	Toward Long-Term Oceanographic Monitoring of the Gulf of Alaska Ecosystem	51.6
- <b>-</b> -		G	030455	Gulf Ecosystem Monitoring and Research Program Data System	212.9
	:	G	030550	Alaska Resources Library and Information Services	95.1
1			030558	Harbor Seal Recovery: Application of New Technologies for Monitoring Health (including Bench Fees)	286.7
	an the st	G	030584	Evaluation of Airborne Remote Sensing Tools for GEM Monitoring	39.3
网络马格马	1	G	030596	Securing Flow Data for a Lower Kenai Peninsula Salmon Stream	22.6
a ser a s Ser a ser a		G	030610	Kodiak Archipelago Youth Area Watch	63.0
		G	020614	Monitoring Program for Near-Surface Temperature, Salinity, and Fluorescence in the Northern Pacific Ocean	18.1
	ADNR	G	020630	Scientific Management under GEM	174.8
		G	030649	Reconstructing Sockeye Populations in the Gulf of Alaska over the Last Several Thousand Years	92.5
				ADF&G Total	2,240.0
ADNR	ADFG, DOI-USGS, NOAA	G	030250	Project Management	10.0
		G	030600	Synthesis of the Ecological Findings from the EVOS Damage Assessment and Restoration Programs,1989-2001	215.9
	ADFG	G	030630	Scientific Management under GEM	103.6
				ADNR Total	329.5
DOI-NPS	DOI-USGS	G	030656	Retrospective Analysis of Nearshore Marine Communities Based on Analysis of Archaeological Material & Isotopes	4.7
	· · · · · · · · · · · · · · · · · · ·			DOI-NPS Subtotal	4.7
DOI-FWS	DOI-USGS		030423	Patterns and Processes of Population Change in Selected Nearshore Vertebrate Predators	11.5
		G	030561	Community-Based Forage Fish Sampling	17.0
			1	DOI-FWS Subtotal	28.5

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### Attachment A to Resolution 02-07 *EXXON VALDEZ* OIL SPILL TRUSTEE COUNCIL 2003 Federal Fiscal Year Project Budgets October 1, 2002 - September 30, 2003

Agency	Cooperating Agency(s)	GEM	Project Number	Project Title	First FY 03 Court Notification
DOI-USGS	ADFG, DOI-O/S	j j	030100	Public Information and Administration	139.9
	ADFG, ADNR, NOAA	G	030250	Project Management	27.9
	DOI-FWS		030423	Patterns and Processes of Population Change in Selected Nearshore Vertebrate Predators	205.1
	NOAA		030585	Lingering Oil: Bioavailability & Effects to Prey & Predators	15.7
	NOAA		030620	Lingering Oil & Predators: Pathways of Exposure & Population Status	192.3
	DOI-NPS	G	030656	Retrospective Analysis of Nearshore Marine Communities Based on Analysis of Archaeological Material & Isotopes	49.0
				DOI-USGS Subtotal	629.9
DOI-0/S	ADFG, DOI-USGS		030100	Public Information and Administration	24.2
				DOI-O/S Subtotal	24.2
				DOI Total	687.3
		рыс 4 2 м			
NOAA	Philipping and Adams		030012	Photographic and Acoustic Monitoring of Killer Whales in Prince	18.1
			030250	William Sound and Kenai Fjords	49.7
	ADFG, ADNR, DOI-USGS	G	030250	Project Management Hydrocarbon Database and Interpretation Service	49.7
			030290	Effects of Oiled Incubation Substrate on Pink Salmon Reproduction	37.1
			030574	Assessment of Bivalve Recovery on Treated Mixed-soft Beaches in Prince William Sound	36.0
		G	030575	Designing a Community Involvement/Community-based Monitoring Plan for GEM	109.6
	USGS		030585	Lingering Oil: Bioavailability & Effects to Prey & Predators	105.9
		G	030607	Geographic Information Systems (GISs) Map of Water Quality Monitoring Sites Across the Gulf of Alaska	13.1
·		G	030625	Prince William Sound Isotope Ecology Synthesis	25.5
		G	030636	Management Applications: Commercial Fishing	50.9
·				NOAA Total	468.4
				Total	3,725.:

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### Attachment A to Resolution 02-07 *EXXON VALDEZ* OIL SPILL TRUSTEE COUNCIL 2003 Federal Fiscal Year Project Budgets October 1, 2002 - September 30, 2003

Agency	Cooperating Agency(s)	GEM	Project Number	Project Title	First FY 03 Court Notification
	CHECK ONLY		· · · · · · · · · · · · · · · · · · ·	SUMMARY	
····	CHECK ONLY				
	CHECK ONLY			ADF&G	2,240.0
	CHECK ONLY	,,		ADNR	329.5
	CHECK ONLY			ADEC	0.0
	CHECK ONLY			State of Alaska	2,569.5
	CHECK ONLY				
	CHECK ONLY				
	CHECK ONLY			USFS	0.0
	CHECK ONLY	_		DOI	687.3
	CHECK ONLY	[		NOAA	<u>468.4</u>
				United States	1,155.7
	CHECK ONLY				
	CHECK ONLY			Total	3,725.2
	CHECK ONLY		01100	Public Information and Administration	1,114.3
	CHECK ONLY	1		Habitat Protection and Acquisition Support	0.0
		a Sela	02154	Archaeology Support Costs	0.0
	en an	Part and State	02514	Lower Cook Inlet Waste Management Plan	0.0
: <u>1</u> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				Work Plan Total (w/o the projects reflected above)	2,610.9
- <u>-</u>	· · · · · · · · · · · · · · · · · · ·			Sandra's number	4,178.9
				includes deferred projects	480.8
					3,698.1
	-				
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	SPREADSHE	ET B: TRUSTEE COUNCI	L ACTION (TEXT SPREAD	SHEET)-	-FY 03	PHASE FY 03	I WORK F	PLAN	_
	Prej.Ne.	Project Title	Proposer	Lead Agency	New or Cont'd	Approved 8/6/02	Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
ſ	Oil Spill: Lingeri	ng Injury			<u>*****</u>	\$428.0	\$151.3	\$52.7	\$52.7
	030190	Construction of a Linkage Map for the Pink Salmon Genome	ne F. Allendorf/Univ. Montana	ADFG	Cont'd 8th yr. 8 yr. proje	\$54.5 ect	\$0.0	\$0.0	\$0.0
	Proje	ect Abstract	Chief Scientist's Recommend	dation		Trus	stee Council A	ction	
This is the final year of a project based upon experiments conducted at the Alaska SeaLife Center that use a linkage map that was constructed to test for effects of regions of the genome on traits that are important to the recovery of pink salmon (e.g., growth and survival). In summer 2001, 259 sexually mature adults were collected in Resurrection Bay from the 1999 cohort produced from wild pink salmon collected from Likes Creek. In FY 03, the analysis of the genotypes in the returning adults will be completed to test for genetic differences in marine survival and other life history traits (e.g., body, size, egg number, and egg size) and a final report/manuscript will be prepared.			This is the final year of a long-term pr done a good job overcoming unexpect challenges. The genome map will be variety of future studies of pink salmo useful for future pink salmon manage Southcentral Alaska. Based on the p appears that the data analysis is in th completion, and it seems appropriate principal investigator with funding to c identified data analysis and prepare n Fund.	ted technical a benefit to a n, and will be ment in roposal, it e process of to provide the complete the	remaining prepara the gene survival project v to fisher interaction the gene to their of into stree	ng data analy tion. This pro- etic traits of p . In addition, will contribute ies manager ions. For exa e pool in a w environment eams to affect	al, which redu ysis and manu oject is importa- bink salmon the the work being to answering ment about ha ample, are had ay that makes ? Are enough at productivity of to particular s	script/final ant for unde at affect group g done und q questions tchery/wild chery fish of wild fish m hatchery fis of wild fish?	report owth and er this important fish changing aladapted sh getting
	036890	Hydrocarbon Database and Interpretation Service	J. Short, B. Nelson/NOAA	NOAA	Cont'd 12th yr.	\$22.5	\$0.0	\$22.7	\$22.7
	Proje	ect Abstract	Chief Scientist's Recommend	dation		Trus	stee Council A	ction	
	This ongoing project services for all same analysis in support data represent same 1989 to the present laboratory National restoration data. A interpretive services releases of the hyd	ct provides data and sample archiving iples collected for hydrocarbon of Trustee Council projects. These inples collected since the oil spill in t and include environmental and Resource Damage Assessment and dditionally, this project provides s for hydrocarbon analysis, public rocarbon and pristane databases, aintenance of the hydrocarbon	Nge (1	racking at will focus or urface oil in ig the food we ject. As the the identity of n that oject makes based on the the database. has been s of successe study have	n (00195, project b of hydro studies.	ontingent on 01195, 0159 provides the ocarbon data	submittal of ov 99) and manus ongoing analy for other Trus	verdue repo script (0059 vsis and inte	8). This erpretation

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
030476	Effects of Oiled Incubation Substrate on Pink Salmon Reproduction	R. Heintz/NOAA	NOAA	Cont'd 5th yr. 5 yr. proj	\$37.1 ect	\$0.0	\$0.0	\$0.0

#### Project Abstract

Populations are maintained through successful reproduction; this study is designed to determine if exposure to oil impairs pink salmon reproduction. This experiment began in the fall of 1998 when pink salmon eggs were incubated in oil contaminated water. Fish that as it has been fundamental for understanding the survived exposure were marked and released in the spring of 1999. They reached maturity at sea and returned to spawn in the fall of 2000. Return rates confirmed previous observations of reduced marine survival among exposed fish, but evaluations of offspring (F1) survival rates did not indicate any reproductive impact. The F1 were incubated in clean water until spring 2001 when they were marked and released. They will mature and return to the hatchery in the fall of 2002 and their reproductive ability will be evaluated by generating an F2 generation. A diminished -ability to produce the F2 generation represents a genetic effect of oil transmitted to unexposed generations. Such an effect was demonstrated for similarly treated pink salmon in 1997, but corroborating data do not exist. This project is designed to retest that experiment; if diminished reproductive ability is corroborated, it would demonstrate a significant and unanticipated effect of oil pollution.

#### Chief Scientist's Recommendation

This is an important project because it rigorously tests the hypothesis that pink salmon have herritable damage expressed as reduced survival. The Trustee Council should complete this project. damage to pink salmon from the oil spill. The FY 03 work will complete a two-generation experiment started in 1998 with exposure of salmon eggs to oil. Fund.

#### **Trustee Council Action**

Fund closeout of this project contingent on submittal of overdue reports (99347, 01476). This project is validating the effects of oil contamination on pink salmon, thus contributing to our understanding of the injury and recovery status of this injured species.

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	Approved 8/6/02	Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
030585	Lingering Oil: Bioavailability and Effects to Prey and Predators	J. Rice, J. Short/NOAA; J. Bodkin, B. Ballachey/USGS; D. Esler/Simon Fraser Univ.	NOAA & DOI	Cont'd 2nd yr. 2 yr. proie	\$121.6	\$0.0	\$0.0	\$0.0

### Project Abstract

About 20 acres of contaminated beach were found in 2001 surveys of western Prince William Sound conducted under Project 01543. In these areas, sea otters and harlequin ducks have not recovered, raising concerns that continued oil exposure may be affecting their survival. Biochemical assays and mortality patterns apparently still exposed to lingering oil. This is a are consistent with continuing oil exposures, but prior to this study, linkages between oil persistence and impacts remaining in the intertidal and how it may be at higher trophic levels had not been attempted. In this study, shoreline contamination, exposure and effects were examined simultaneously by choosing a common set of sites at which to assess oil persistence and biological impacts on sea otters and harleguin ducks. Fieldwork was conducted in FY 02, and closeout activities, including data analyses and writing of reports and publications, will be done in FY 03. The National Oceanic and Atmospheric Administration's Auke Bay Lab has been leading the studies of oil bioavailability and impacts to prey species; Department of Interior-U.S. Geological Survey has been directing the studies on sea otters and harlequin ducks.

### Chief Scientist's Recommendation This is a very good to excellent proposal that

addresses the potential effects of remaining intertidal oil deposits (mainly subsurface) on the food web, including clams and intertidal fish, sea ducks (harlequin ducks) and sea otters, which are closeout of the two-year project to document oil available to higher trophic levels. The request for funds to analyze oil-exposed bivalves is warranted, as this may establish an exposure pathway to higher trophic levels. The project is related to Project 03620, but the latter project focuses more closely on relating foraging area to exposure. Fund, including funds for additional chemical analyses and sediments. analysis of interstitial water samples.

### **Trustee Council Action**

Fund closeout of this project, including funds for additional chemical analyses and analysis of interstitial water samples, contingent on (a) approval of the revised Detailed Project Description, which reflects this additional work and (b) submittal of overdue reports (00195, 00454, 01195, 01599) and manuscript (00598). This project, which integrates studies of sea otters and harlequin ducks with continued assessment of oil persistence, is the product of a workshop convened in 2001 to review results from Project 01543/Evaluation of Oil Remaining in the Intertidal and to identify information gaps. The project's objective is to determine if the signs of continued oil exposure in sea otters and harlequin ducks are linked to the oil remaining in intertidal

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
030594	Development of an Alaska Standard Species for Marine Toxicity Testing The Alaska Green Urchin		ADFG	New 1st yr. 1 yr. proj	\$0.0	\$0.0	\$0.0	\$0.0
This project will d testing procedure species. None or or recommended Agency and othe cold-water test an species to make species is unsatis and this practice of the results. De crude oil compor dispersants and l developing the A	oject Abstract develop a standard marine toxicity e using cold water and an Alaska of the standard test procedures required d by the Environmental Protection er environmental regulators use nimals. Use of typical warm-water decisions about Alaska conditions and sfactory from a scientific standpoint, also interferes with public acceptance ecisions requiring toxicity testing include nents and cleanup chemicals, such as beach cleaners. This project proposes laska green urchin as a test species. ertilization and embryo development are pro of toxicity	Chief Scientist's Recomm The core tasks in this proposal ha done and extensively published by colleagues at the University of Wa the 1980s. The project also has lin restoration. Do not fund.	ve already been / Dinnel and his ashington during			<u>stee Council A</u> n Chief Scient		

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
030620	Lingering Oil and Predators: Pathwa Exposure and Population Status	ays of S. Rice, J. Short, M. Lindeberg/NOAA; J. Bodkin, B. Ballachey/USGS-DOI	NOAA & DOI	New 1st yr. 2 yr. proj	\$192.3 ect	\$151.3	\$30.0	\$30.0
Lingering oil and ducks are the me long term impact accumulating wh constraining reco western Prince V contamination of documented dur years later, eleva sea ducks have hydrocarbons. E to date has been 2001 and 2002, document the dia of lingering oil al impacted by the identifying specif ducks could be of lingering oil. Thi studies and will to oil to sea otter a	roject Abstract continued effects to sea otters and sea ost surprising and best documented ts of the oil spill. Strong evidence is nich implicates lingering oil as a factor overy of the nearshore ecosystem in William Sound. Acute and chronic f sediments and prey species were well ring the years following the spill. Twelve ated biomarker levels in sea otters and indicated continued exposures to indicated continued exposed to is project is an outgrowth of the earlier focus on the direct pathways of lingering ind sea duck populations in two heavily in the western sound.	Chief Scientist's Recommend This is an important project for unders lingering effects of the oil spill in some heavily oiled localities from 1989. It is to excellent proposal that addresses the effects of remaining intertidal oil depose subsurface) on the food web, including (harlequins) and sea otters, which hav recovered from the effects of the spill apparently still exposed to lingering oil some concern about the experimental the prey base study (the National Oce Atmospheric Administration (NOAA) of particularly being able to relate the loc foraging activities to the contamination- base. The means of contamination- external contactis also a question. For (U.S. Geological Survey) component; on funding NOAA component pending with the peer review team.	anding the of the most a very good be potential sits (mainly sea ducks e not and are . There is design for anic and omponent), ation of of the forag ating versus und USGS defer decisio	Fund U sea otte decision Atmosp lingering Fall 200 03585/L and Pre compor principa 01195, This pro integrat e with find Summe to addre on effects n regard ducks,	<u>Trus</u> SGS (U.S. G ers and harled n on funding l heric Admini- g oil (\$151,30 )2 on the rest ingering Oil: edators. If fur hent will be co al investigator 01599) and r oject follows of ing studies of dings of the li er 2001 (Proje ess additional of remaining to the food w both of which	etee Council A eological Surv quin ducks (\$1 NOAA (Nation stration) comp 00) pending a ults to date fro Bioavailability nded, funding ontingent on s s' overdue rep nanuscript (00 on Project 025 f sea otters ar ngering oil sur ect 01543). The objectives re- intertidal oil de ebon sea otto have not recon- ntly still exposed	vey) compor (92,300); de al Oceanic bonent on h workshop to m Project and Effect for the NO/ ubmittal of borts (0019- 0598) from bots (0019- 0598) from bots (00	efer and abitat and o be held s to Prey AA the 5, 00454, prior years. s n ducks cted s designed potential ecifically in lequin n the oil

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
Oil Spill: Recov	very Monitoring				\$340.8	\$25.0	\$18.2	\$0.0
030012	Photographic Monitoring of Resider Killer Whales	t C. Matkin/North Gulf Oceanic Society	NOAA	Cont'd 11th yr.	\$18.1	\$0.0	\$18.2	
This project will suppod of killer whale cooperative progrative various foundation yearly basis since	ject Abstract upport monitoring of the resident AB s and other resident pods as part of a am with the Alaska SeaLife Center and is. Monitoring has occurred on a 1984; this long-term data set was ing the oil spill effects on killer whales.	Chief Scientist's Recommendation This project will monitor an important H pod. Killer whales are a top trophic-lew species that is dependent on the integ marine ecosystem. Killer whales are a increasingly important species for tour industry that is worth many millions of year. The killer whale population in the Alaska has been increasing and overa population appears to be healthy. How pod declined precipitously at the time of and, for a time after the spill, appeared danger of complete disintegration. The grown since about 1994 and pod disin seems less likely. The continuation of monitoring project will provide continuit the status of the AB pod. Fund, lower	iller whale el, sentinel ity of the ilso an ism, an dollars per e Gulf of Il the vever, the Al of the spill I to be in e AB pod ha tegration nov this ng data about	manusc niche pa beyond reduced sources for cont William 3	Y 03 only con cripts funded artitioning). <i>A</i> has not yet b d from earlier s of funds ava	tingent on cor in prior years A decision on f been made. F years to reflea ilable to the p ring of killer w Kenai Fjords.	npletion of (mating sys funding in F unding in F ct the additi rincipal inve	Y 04 and Y 03 is ional estigator

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Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
030462	Effect of Disease on Pacific Herring Population Recovery in Prince Willi Sound		ADFG	Cont'd 5th yr. 5 yr. proj	\$0.0	\$25.0	\$0.0	\$0.0
Pro	ject Abstract	Chief Scientist's Recommendat	on			tee Council A	<u>ction</u>	
percent) in the Pa William Sound wa any year studied ( disseminated, chr best diagnosed us hoferi was not ass population biomas increases in <i>I. hol</i> been associated v understand the sig outbreak, this pro	evalence of <i>Ichthyophonus hoferi</i> (38 acific herring population of Prince as more than 50 percent greater than in 1989-2000). <i>I. hoferi</i> causes severe, onic disease in Pacific herring that is sing histopathology. Before 2001, <i>I.</i> sociated with unexpected declines in as, but during the last century <i>feri</i> prevalence in Atlantic herring have with several disease outbreaks. To gnificance of the 2001 <i>I. hoferi</i> ject will analyze samples already 001 and spring 2002 as part of Project	Herring remain one of the key non-recover species and are of substantial commercer importance, in addition to being a key con- the pelagic ecosystem. This study has co- much to our understanding of disease en- herring. In the opinion of the reviewers, in value of this project has been obtained to contributions already made to the literatur the management of the herring fishery be the VHS (viral hemorrhagic septicemia) reviewers feel there is insufficient justifice substantial investment of further research sample processing for determining the p a second pathogen ( <i>Ichthyophonus hofe</i> However, a modest contribution of matic to a larger effort would be in order. Fun \$25,000 if matching funds are obtained.	ial imponent of ontributed xpression most of the hrough the ure and to y work on virus. The eation for th money i presence o eri).	Defer decision on funding this project until Nover pending contribution of funds from non-EVOS so to carry out the project as proposed. This project has made an important contribution to managem ssion in the herring fishery, will complete its work on viral hemorrhagic septicemia in FY 02 (Project 02462 gh the proposer has requested funds to conduct new wo <i>lcthyophonus hoferi</i> in FY 03. The reviewers cor the organ-by-organ pathobiological study propos be of lower priority at this stage of the restoration program, but a modest contribution of \$25,000 to project may be worthwhile. Deferring the project November will provide the proposer an opportuni secure funds from other sources. The project ob is to determine whether disease continues to lim recovery of the Prince William Sound herring population.				s sources ject, which ement of iral 462). The work on consider oosed to tion 0 to the ect until tunity to objective
030558	Harbor Seal Recovery: Application New Technologies for Monitoring H		ADFG	Cont'd 3rd yr. 3 yr. pro	\$286.7 ject	\$0.0	\$0.0	\$0.0
Pro	<u>pject Abstract</u>	Chief Scientist's Recommendat	<u>ion</u>			stee Council A	ction	
potential for new f and immune syste During year one, I both permanently Alaska SeaLife C triiodothyronine (T gluconeogenic ho immunoglobulins organochlorine co assessed. Cell lin been initiated, an established. FY ( free-ranging seals	ntinuation of the study to assess the technologies to monitor the endocrine ems for the health of harbor seals. baseline samples were collected from captive and rehabilitation seals at the enter. Analysis of thyroxine (T4), T3), and cortisol (metabolic and ormones), and measurement of (IgG, IgM, and IgA) and ontaminants are currently being les to quantify immunoglobulins have d baseline hormones have been D3 will compare the profiles of s and those failing to thrive in their n effort to restore this species.	This is an excellent proposal investigatin contaminant effects on reproductive biol harbor seals. Previous concerns about assay development have been addresse project is on track to complete its object	ogy of the pace o ed and the	develop f question project writing corresp animals propos closeou techno and mo funding	oment have been s closeout ye only) but add oonding benc s at the Alask ed and is rec- ut activities. T logies at the A onitor the hea	eerns about the een addresse n resolved. FY ear (data analy itional sample h fees for hou a SeaLife Cer ommended fo his project is Alaska SeaLife Ith of harbor s udes \$167,600	d and budg 03 was to rsis and fina collection sing the res nterhas als r funding al- employing r e Center to eals. [Note:	et be this al report and the search so been ong with new assess : The

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
030574	Assessment of Bivalve Recovery on Treated Mixed-Soft Beaches in Prince William Sound	D. Lees/Littoral Eco.& Environ. Services	NOAA	Cont'd 2nd yr. 2 yr. proje	\$36.0 ct	\$0.0	\$0.0	\$0.0

#### Project Abstract

Chief Scientist's Recommendation

Studies from 1989 through 1997 suggest that bivalve assemblages on beaches in Prince William Sound with high-pressure hot-water washing remain severely damaged in terms of species composition and function. This project will assess the generality of this apparent injury to these assemblages. A finding that our conclusions are accurate will indicate that a considerable proportion of mixed-soft beaches in treated areas of the sound remains extremely disturbed and that these beaches are functionally impaired in terms of their ability to support foraging by damaged nearshore vertebrate predators such as sea otters and harlequin ducks.

This is the second and final year of funding for this intertidal project. The need for this work has long been recognized in the Restoration Plan, but not until last year did an affordable project appear. Fund.

### Trustee Council Action

Fund closeout of this project, which will extend sampling initiated under the National Oceanic and Atmospheric Administration's HAZMAT program to document continuing effects of shoreline cleanup on populations of important bivalves, thus allowing the results to be generalized over a larger geographic range.

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	Approved 8/6/02	Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
Oil Spill: Ecos	system Recovery & Function				\$216.6	\$148.9	\$0.0	\$0.0
030423	Patterns and Processes of Populati Change in Selected Nearshore Vertebrate Predators	on J. Bodkin, B. Ballachey/USGS-BRD, D. Esler/Simon Fraser Univ.	DOI	Cont'd 5th yr 5 yr. proj	\$216.6 ect	\$0.0	\$0.0	\$0.0
Sea otters and h from the oil spill, differences betw oiled areas, both P4501A, almost to oil. This proje exposure and th intent of underst these species ar The results also recovery of the s work has consis species, and a c Proposed activit final year of hark exposure and su	roject Abstract harlequin ducks have not fully recovered based on population-level demographic ween oiled and unoiled areas. Further, in a species show elevated cytochrome certainly reflecting continued exposure ect is exploring links between oil e lack of population recovery, with the anding constraints to full recovery of nd the nearshore environment generally. serve to monitor the progress of species and the system. To date, the ted of field components for both captive component for harlequin ducks. ies for FY 03 include (a) the third and equin duck field studies quantifying oil urvival of females during winter and (b) roject components and preparation of		made S Nearshore Project ks have htal work with esults is irally ter compone of harlequin etermine if sure and	sea otte the revi compor the proj apparer meet pr nt extensio (Project otters a includes	vised propos er component ewers in rega nent have bee ect's FY 02 p nt that a third oject objectiv on of the Nea t 99025) work nd harlequin s closeout ac vriting) for bo	tee Council A al, which redu slightly. The and to the harle an addressed reliminary res year of field s res. This proje rshore Verteb c on two still-in ducks. The F <sup>*</sup> tivities (final d th the sea otte	ces the cos questions r equin duck through a re ultsit is no tudy is nece ct is an imp rate Predat jured speci Y 03 fundin ata analysis	raised by eview of ow essary to portant tor project ies, sea g request s and

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
030587	Understanding the Cellular Process Recovery and Its Utility in Oil-Spill Restoration Efforts	es of C. Downs/EnVirtue Biotechnologies, Inc.	NOAA	New 1st yr. 1 yr. proje	\$0.0	\$148.9	\$0.0	\$0.0
This project will e mechanisms that species impacted determine the ad exposure on spec- and genomic inter slow the rates of <i>staminea</i> and (b) cellular-physiolog these two specie parameters in po different levels of work may provide critical to the issu- invertebrate and areas. It will prov- monitoring metho	oject Abstract elucidate the cellular and genomic t affect the rate of recovery in bivalve d by the oil spill. The project will (a) liverse affects of a long-term oil-spill cific processes of cellular physiology egrity that could potentially impede or recovery in populations of <i>Protothaca</i> determine the link between gical condition with PAH-body burden in es of bivalves by characterizing these opulations from sites that exhibit f oil contamination. Completion of this e a foundation to address questions ue of variable rates of recovery in both vertebrate species in oil-impacted vide new and powerful tools to improve odologies, as well as potentially le information for restoration efforts.	Chief Scientist's Recommend This project will apply a battery of biom determine the sublethal impact of resi mollusk physiology. Some interesting presented in the proposal. However, to proof of principle for the effects postul proposal lacks a strong justification from existing biomarker literature, and it is a clear how experienced the investigato area. In light of the preliminary data su proposal, however, the investigators s encouraged to address these weaknes revised proposal. Defer pending subr review of a revised Detailed Project D addresses the peer reviewers' concern	harkers to dual oil to data is here is no ated, the om the not entirely rs are in this ibmitted in the hould be sses in a hittal and escription the	Defer de pending Project l concern biomark experier probably amount placeho subletha and how recover	<u>Trus</u> ecision on fur submittal an Description t s (proof of p er literature, nce) and (b) reduces) co in the recom lder). This p al impact of r	tee Council A nding this proj d review of (a hat addresses rincipal, refere and principal a revised budg ontractual and mended colur roject is desig esidual oil to r o residual oil n o	ect until No ) a revised the Chief S ence to exis investigator get that clar travel costs nn above is ned to dete nollusk phy	Detailed Scientist's ting rs' rifies (and s (the s a ermine the rsiology

#### FY 03 FY 03 Approved Deferred to New or FY 04 FY 04 Lead 8/6/02 11/25/02 Agency Cont'd Request Recom. Proj.No. **Project Title** Proposer **GEM Cross-Habitat Linkage: Synthesis** \$254.5 \$0.0 \$214.3 \$184.8 ADNR Cont'd G-030600 Synthesis of the Ecological Findings R. Spies/EVOS Chief Scientist, et \$215.9 \$0.0 \$184.8 \$184.8 from the EVOS Damage Assessment al 2nd vr. and Restoration Programs, 1989-2001 3 yr. project Project Abstract Chief Scientist's Recommendation **Trustee Council Action** This project is synthesizing the results from 12 years of Proposal will not be reviewed by Chief Scientist. Fund. This project will integrate what has been learned from more than a decade's worth of science following post-spill study in the EVOS damage assessment and Two independent reviews have been conducted. restoration programs in the context of anthropogenic the oil spill. Such a synthesis will fulfill at least two and natural factors causing change in the northern Gulf purposes: (a) inform the public about the EVOS legacy of Alaska ecosystem. The result of the work will be an in a scientifically rigorous yet readable volume and (b) integrated synthesis book. The book will consist of three provide a foundation for GEM. A detailed outline for the major sections: (a) the basic structure and function of synthesis will be completed shortly and will be supplied the ecosystem, (b) how it changes over time and how it to the Trustee Council for comment. In addition, the responds in disturbances, and (c) the effect of the spill: principal investigator should work closely with the how our understanding of the ecosystem has matured Trustee Council Office in designing the multimedia and what future path will help us better understand this presentation to ensure that it will be a useful tool for valuable marine ecosystem. The book will be a major Council staff in communicating the results of the product of the EVOS restoration program and help set restoration program to the public and others. the foundation for GEM. NOAA New G-030607 Geographic Information Systems (GIS) M. Gracz/Cook Inlet Keeper \$13.1 \$0.0 \$0.0 \$0.0 Map of Water Quality Monitoring Sites 1st yr. Across the Gulf of Alaska 1 yr. project Project Abstract Chief Scientist's Recommendation **Trustee Council Action** This project will synthesize existing data to create a This proposal will create a database and map of Fund contingent on clarification by the proposer of the comprehensive Geographic Information Systems (GIS) water quality sites in the Gulf of Alaska. Such a geographic area to be covered by the project (the map and database of monitoring sites across the Gulf of database will be useful in meeting GEM objectives. database should include the entire geographic area Alaska. This map will be published in hardcopy and will Fund contingent on clarification by the proposer of encompassed by the GEM program). This project will be linked to CIIMMS (Cook Inlet Information the geographic area to be included (the database create a GIS map of water quality monitoring sites should include the entire geographic area Management and Monitoring System, Project 01391) (including physical, chemical, and biological and STORET, through which the map and data can be encompassed by the GEM program). parameters) by identifying existing sites across the Gulf of Alaska and incorporating this information into easily updated and made available to monitoring entities as well as policy makers, scientists, and the general CIIMMS (the Cook Inlet Information Management and public. This map and the accompanying data will serve Monitoring System created under Project 01391). This as a lasting tool for the restoration and protection of the information will be useful for GEM planning. Gulf of Alaska's resources by coordinating diverse monitoring efforts and establishing a framework into which information about current and future monitoring programs can be entered.

SPREADSHEET B: TRUSTEE COUNCIL ACTION (TEXT SPREADSHEET)--FY 03 PHASE I WORK PLAN

August 6, 2002 (LAYOUT: TCActionAugust)

SPREADSH	IEET B: TRUSTEE COUNCI	L ACTION (TEXT SPREA	DSHEET)	FY 03	PHASE I	WORK F	PLAN	
Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	Approved 8/6/02	Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
G- 030625	Prince William Sound Isotope Ecolo Synthesis	ogy T. Kline/PWSSC	NOAA	New 1st yr. 1 yr. proj	\$25.5 ect	\$0.0	\$0.0	\$0.0
P	roject Abstract	Chief Scientist's Recommer	ndation		Trus	tee Council A	<u>ction</u>	
present structur William Sound t with tentative titl structure of the Sound, Alaska". will be useful be	provide a 'big picture' synthesis of the e of the pelagic ecosystem of Prince hrough preparation of a scientific paper le: "A stable isotope based trophic pelagic community of Prince William . The documentation of a 'before picture' ecause the recently documented regional es composition is likely to alter pelagic e during GEM.	The proposed synthesis could be a v product, and the principal investigate the most knowledgeable individual to synthesis. Fund revised proposal, w the cost of the project to a more app	or is certainly o prepare this hich reduces	scope a This pro pelagic stable is and ana previous Ecosyst	and budget as bject will prep- ecosystem of sotope ratio d alyzed by the s EVOS proje- tem Assessm	al, which redu directed by the are a synthesis Prince Willia ata from biota principal invest octs (Project 9 ent; Project 0 Structure and	ne Chief Sc s manuscri m Sound, u samples c stigator und 8320/Sound 1393/Prince	ientist. pt on the ising ollected er d
G- 030631	Top-Down Process Synthesis	T. Kline/PWSSC	NOAA	New	\$0.0	\$0.0	\$29.5	\$0.0
				1st yr. 2 yr. proj	ect			
<u>P</u>	Project Abstract	Chief Scientist's Recommer	ndation		<u>Trus</u>	tee Council A	<u>ction</u>	
ontogenetic incr walleye pollock processes wher analysis of arch multiple trophic larger pollock ca those that are a that pollock of th cannibalism. Pu being removed discovery of a n SEA project (So /320.) The prop will be useful to effectively remo	synthesize information that suggests reases of the trophic position of the such that they contribute to top-down n >600mm in length, using stable isotope sived samples and data. Pollock feed at levels depending on their size, with annibalizing smaller pollock, especially tige-0. Preliminary analysis suggested his size range have a high potential for ollock of this size range are presently from Prince William Sound since the nostly undisturbed population during the bond Ecosystem Assessment, Project cosed documentation of a 'before picture' GEM, because fishing pressure may ove the larger size class pollock from the appened in the Bering Sea.	restoration objectives is thus likely to not fund.	ounding factors live the ntribution to	recomm analysis pollock express the proj	nendation. The to examine under differe sed concern a ect and whet	n Chief Scient his project wor the trophic po- nt conditions. bout the expe- ner unambigu- ethods propo	uld use stat sition of wa The review erimental de ous results	lleye vers esign of

_	Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
Γ	GEM Cross-Habi	oss-Habitat Linkage: Community Involvement				\$369.2	\$150.5	\$340.0	\$0.0
<b>-</b>	G- 030052	Tribal Natural Resource Stewardsh and Meaningful Tribal Involvement GEM		ADFG	Cont'd 9th yr.	\$30.1	\$150.5	\$192.6	
	In FY 03, this project establishing Core Ac Resource Plans bein identifying priority re- research and monitor them to community- activities, especially conducting a "Wisdor sharing research an biologists, scientists experts, and (d) dev research and monitor implementation in F project are Tatitlek, Nanwalek, Cordova	<u>et Abstract</u> t will focus on four objectives: (a) etion Plans for the Tribal Natural ng developed in FY 02, (b) gional and community-specific oring issues and concerns and fitting based research and monitoring those related to GEM, (c) omkeeper Series" for discussing and d monitoring issues with selected , elders, and traditional knowledge eloping pilot community-based oring projects for potential Y 04. Communities involved in the Chenega Bay, Port Graham, /Eyak, Seward/Qutekcak, Seldovia, ad Region/Ouzinkie, and the Alaska hignik Lake.	Chief Scientist's Recommenda The Trustee Council has committed to involvement in both the GEM and ongo programs. This proposal cannot be fully until the Tribal Natural Resource Plans for completion in FY 02 from this project reviewed by the Trustee Council. These reviewed for their content, relationship community commitment to implementa plans. Defer funding pending receipt of	community ing oil spill v evaluated scheduled t have beer e need to be to GEM, and tion of the	Planner Worksh participa related ( \$2,500 d pending Natural s. worksho results t and buc the worl with Pro Involver GEM. <sup>-</sup> involver capacity	terim amount first quarter op scheduled ation in GEM overhead (\$3 ) costs; defen a review of Resource PI ops/training s to villages). dget need to b k performed oject 03575, I ment/Commu The overall gu	t\$30,100 for salary (\$15,00 d for November planning mee 3,600) and ger r decision on b FY 02 results ans; tribal part sessions; com The Detailed F be revised to r in FY 02 and t Designing a C unity Based Me oal of this proj velopment of le v of the Truste t of GEM.	Resource F (0), Wisdon), er (\$7,000), tings (\$2,00) neral admin balance of f (completior ticipation in munication Project Des nore directl o avoid dup ommunity onitoring Pl ectcommod	nKeeper tribal 00), and istration unding of Tribal technical of EVOS cription y build on olication an for unity dship

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
G-030210	Youth Area Watch	R. DeLorenzo/Chugach School District	ADFG	Cont'd 8th yr.	\$98.6	\$0.0	\$85.6	

Chief Scientist's Recommendation

#### Project Abstract

This project links students in the oil spill impacted area with research and monitoring projects funded by the Trustee Council. The project involves students in the restoration process and provides these individuals the skills to participate in restoration now and in the future. Youth conduct research identified and delegated by principal investigators who have indicated interest in working with students. Youth Area Watch fosters long-term commitment to the goals set out in the restoration plan and is a positive community investment in that process. Participating communities in FY 03 will be Tatitlek, Chenega Bay, Cordova, Nanwalek, Port Graham, Seldovia, Seward, Valdez, and Whittier.

This project is a success story for community involvement in EVOS research, through the participation of young people in the public school system. The proposers recognize EVOS projects will be changing with implementation of GEM and are willing to adapt. The proposers also have done an excellent job of obtaining supplemental funding and reducing reliance on EVOS funding. However, participate. the proposal provides insufficient information to judge progress. It could be strengthened with greater attention to the results of prior efforts, such as Youth Area Watch students choosing to pursue higher education in science. In addition, the annual reports are not a useful gauge of program accomplishments and progress, so accountability is lacking. By contrast, the Kodiak Youth Area Watch annual reports (Project /610) provide specific information on accomplishments, problems encountered and solutions. Fund contingent on receipt of a revised annual report (01210) that indicates that satisfactory progress is being made.

### Trustee Council Action

Fund contingent on submittal and review of (a) a revised FY 01 annual report (01210) that addresses the Chief Scientist's concerns and (b) a satisfactory annual report for FY 02 (02210). Youth Area Watch involves local youth in restoration projects. In FY 03, youth in Chenega Bay, Cordova, Nanwalek, Port Graham, Seldovia, Seward, Tatitlek, Valdez, and Whittier will participate.

Proj.No. Project T	itle Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
G- 030561 Evaluating the Feas a Community-Based Sampling Project for	l Forage Fish	DOI	Cont'd 2nd yr. 2 yr. proj	\$17.0 ect	\$0.0	\$0.0	\$0.0
Project Abstract	Chief Scientist's Recomm	nendation		<u>Trus</u>	stee Council A	ction	
This project will close out Project 02561, which is evaluating the feasibility of developing a community-based forage fish sampling project for GEM. The work in FY 03 will consist of compiling and analyzing information collected during FY 02, and writing a final report.							nts in s effort EX (Alaska 63). It will eral, and on. It this project ered and to
G- 030575 Designing a Commu Involvement/Comm Monitoring Plan for	unity-Based Coastal Studies, et al	kan NOAA	New 1st yr. 1 yr. proj	\$109.6 ect	\$0.0	\$0.0	\$0.0
Project Abstract	Chief Scientist's Recomm	nendation		Trus	stee Council A	<u>ction</u>	
This project will design and produce a dra community involvement and community-b monitoring plan to address the needs of o communities in the region. This initiative w by (a) a case history review of working mo community-based monitoring efforts relev conceptual foundation, (b) a regional capa assessment to identify potential partnersh and indicators as identified by Chugach R Resource Commission's Tribal Natural Ro Planning Process and other community p processes. Recommendations will include new approaches to melding Western scie and traditional knowledge and pilot comm monitoring projects.	review of other similar programs, regional capacity assessment, ide indicators from Chugach Regional codels of vant to the GEM identify new approaches to link w local ecological knowledge. Thes address a very important aspect program. Despite some problems esource esource ilanning e identifying ence and local	undertake a entify issues and al Resource ource Plans, and restern science ar e deliverables wil of the GEM s (lack of detail ar	(develo of poss satisfac monitor d plannin Council commu d It will bu under F Knowle emphas monitor tribes' s Projec will incl	pment of frar ible pilot proj- tory complet ing capacity g; \$51,800). 's interest in nity involvem uild on some Project /052 (i dge/Tribal St sisdevelopm ing plan as c stewardship o t /052 has bo ude non-triba	tion of funds f mework docur ects; \$57,800 ion of Phase I assessment, This project a a strong and nent/community of the efforts Community In tewardship) bu nent of a regio opposed to de capacity and (f een limited to al community of list of participa	nent and de ) contingen (communit literature re addresses t meaningful ty monitorir funded in e volvement/ ut with (a) a ponwide com velopment o b) a broade tribes only; groups and	t on y view, and he Trustee role for ig in GEM. arlier years Traditional different munity of specific r focus this project add Homer

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
G- 030610	Kodiak Archipelago Youth Area Watch	T. Schneider/Kodiak Island	ADFG	Cont'd	\$63.0	\$0.0	\$61.8	
		Borough School District		4th yr.				

#### Project Abstract

#### Chief Scientist's Recommendation

This project will engage students in projects with goals aligned with the general restoration efforts of the Trustee success, including influencing the curriculum of the Council. Students and site coordinators will conduct interviews with local experts and document traditional ecological knowledge, publishing it in a Kodiak School District oral history magazine. Participation of Youth Area Watch adults and students in the annual Academy of Elders/Science Camp will be strongly encouraged. Such participation will serve as another avenue for more tribal members to learn about restoration efforts. scientific monitoring techniques, and occupations related to such work. The value and implications of traditional ecological knowledge will be strongly emphasized throughout the implementation of the project.

This ongoing project has shown solid evidence of Kodiak School District, and has attracted additional funding from other sources. This popular and successful program is achieving its objectives. Fund

### **Trustee Council Action**

Fund. This project, which involves local youth in restoration projects, addresses the Trustee Council's commitment to community involvement in GEM. In FY 03. students in Akhiok. Old Harbor. Port Lions. Ouzinki. Chiniak, and Kodiak City will participate.

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.	
G-030636	Management Applications: Commercial Fishing	K. Adams, R. Mullins/Cordova	NOAA	Cont'd 2nd yr. 2 yr. proje	\$50.9 ct	\$0.0	\$0.0	\$0.0	

Chief Scientist's Recommendation

#### Project Abstract

This project is intended to build a bridge between the scientific community, which is describing and attempting and users, related to EVOS, is quite clear. If the to predict variation in biological production, and the commercial fishing community, which is attempting to find management applications for this new information. In addition, the project seeks to provide community presence to participate in development of GEM.

The need for a "bridge project" between science project can identify useful applications from EVOS-based science it will be money well spent. One important criterion of success will be the ability to formulate credible and scientifically well supported proposals to the Alaska Board of Fisheries. The project is off to a strong start in FY 02 with two successful meetings with in Cordova. Prospects for serving the needs of spill are very good. Prospects for success are improved with the proposed creation in FY 03 of an advisory science panel, for which commitments have already been obtained from four persons knowledgeable in the academic and professional side of natural resource management and/or oceanography. Fund.

#### **Trustee Council Action**

Fund FY 03 only; the proposers have obtained the participation of a panel of scientific advisors, as recommended by the Chief Scientist. In FY 02 this project formed a Prince William Sound Fisheries Research Applications and Planning Group to provide a forum for developing fisheries management applications for all interested parties (Cordova District Fishermen United, Alaska Department of Fish and Game, Prince William Sound Aquaculture Corporation, Valdez well-documented outcomes and setting up an office Fisheries Development Association, commercial fishers, and others). The objectives of this group in FY 03 are to those who depend on resources damaged by the oil (a) identify a fisheries relevant subset of EVOS projects. (b) develop criteria and guidelines for making information gathered by GEM relevant for fisheries management and shore-based communities, and (c) develop a plan showing the cycle of movement from basic science to management application. At the end of FY 03, the success of the project will be evaluated and a decision made on whether to continue the project into future years. As recommended by the Chief Scientist, one measure of success will be the project's ability to formulate credible and scientifically well supported proposals to the Alaska Board of Fisheries. The EVOS program can benefit from the commercial fishing community's perspective on restoration results and interaction with fishers on how to incorporate the results into fisheries management practices. In addition, the project could form a foundation for working with Prince William Sound fishers as GEM develops.

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom
GEM: Watersh	hed Habitat				\$115.1	\$0.0	\$26.6	\$26.6
G- 030596	Securing Flow Data for a Lower Ke Peninsula Salmon Stream	nai J. Cooper/Cook Inlet Keeper	ADFG	New 1st yr. 1 yr. proj	\$22.6 ject	\$0.0	\$0.0	\$0.0
Since August 19 Soil and Water ( collecting discha important salmo Ninilchik River, / Creek. With the Survey (USGS) River gauge. Ke Conservation Di others depend of achieve a comp watersheds. The to contract with	roject Abstract 298, Cook Inlet Keeper and the Homer Conservation District have been arge and water quality data from four on streams on the lower Kenai Peninsula Anchor River, Deep Creek, and Stariski e loss of funding, the U.S. Geological no longer can maintain the Ninilchik eeper, Homer Soil and Water istrict, Ninilchik Traditional Council and on this gauge for the flow data needed to lete picture of water quality in these his project will provide funds for Keeper USGS to maintain the gauge for one ich time long-term funding will be	useful in understanding differences in forcing. Fund, lower priority.	for "bridge nt loss of a -freshwater spected to be	funds a 2002-S proposa cover th for the p the cos covered provide the Nin permar Inlet Ke quality Departu as at hi having key ele nearsho and the	evised proposivallable for the ptember 200 al also includence costs of reperiod May-S t of operating d by the U.S. interim fundi ilchik River states of the Ninilch ment, long-terres of the Ninilch ment of Envir igh risk from the a high need for ment in undence overall healt	etee Council A al, which clari- ne gauge's FY 03) operation. es a small am- trieving and pr eptember 200 the gauge du Geological Su ng (FY 03 only tream-flow gau n funding sou n this gauge ir ik River, which onmental Con- nonpoint source for data collect rstanding the ents of the spi h and product n, herring, and	fies the ma 03 (Octobe The revise ount of func- rocessing g 2 and clari- ring this pe urvey. This y) for maint- uge while a rce is soug n monitoring the Alaska servation h ce pollution tion. Water watershed ill-impacted ivity of sucl	er ed ding to gauge da fies that riod will project w enance th. Cool g the wa a and as quality is and l region h

August 6, 2002 (LAYOUT: TCActionAugust)

were seriously impacted by the oil spill.

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
G- 030649	Reconstructing Sockeye Population the Gulf of Alaska over the Last Se Thousand Years		ADFG	Cont'd 2nd yr. 3 yr. proje	\$92.5 ect	\$0.0	\$26.6	\$26.6
P	roject Abstract	Chief Scientist's Recom	mendation		<u>Trus</u>	tee Council A	<u>ction</u>	
salmon abundau <sup>15</sup> N record left by spawning lakes Fjords, the Kena Island. The res variability in soc Alaska and how Gulf of Alaska r valuable backgr GEM and for fis	econstructing changes in sockeye nce over the last 5,000 years using the y salmon carcasses in the sediments of in Prince William Sound, the Kenai ai River watershed, and on Kodiak earch question is: What is the normal skeye salmon populations in the Gulf of y does it relate to climatic changes in the egion? The results will provide a round for future monitoring studies within theries managers working to preserve ural salmon runs.	This outstanding project is revea record of sockeye salmon abund northern Gulf of Alaska. Previous investigators has established the salmon abundance with PDO (Pa oscillation) variations on the deca importance of this work is that it longer record of PDO variation th historical record compiled during The project is being executed wi scientific standards. Fund, include addition of three other Kenai Per	ances in the swork with other correlation of acific decadal adal scale. The describes a much an the European the 20th century. th the highest ing the proposed	from Hic the Kena retrospe lakes in about he	lden Lake, S ai Peninsula. ctive study o the spill regio	objectives rela kilak Lake, ar This project of sockeye abu on and develo in the atmospl ations.	nd a control is conducti undance in pping hypotl	lake on ng a certain heses
GEM: Intertid	al/Subtidal Habitat				\$93.0	\$0.0	\$0.0	\$0.0
G- 030584	Evaluation of Airborne Remote Ser Tools for GEM Monitoring	nsing E. Brown/UAF, J. Churnsi	de/NOAA ADFG	Cont'd 2nd yr 2 yr. proj	\$39.3 ect	\$0.0	\$0.0	\$0.0
E	Project Abstract	Chief Scientist's Recom	mendation		<u>Trus</u>	stee Council A	<u>ction</u>	
FY 02. The ma remote sensing of the data colle of (a) a pulsed I maximum of 50 Sea Surface Te digital video sys birds, mammals structure, and (a and mammals a	-two completion of a project initiated in in objective is an evaluation of airborne tools for GEM ecological interpretation ected. The instrument package consists lidar to map subsurface features to a m, (b) an infrared radiometer to map emperature (SST) day, (c) two three-chip stems to map ocean color (chlorophyll), s, surface fish schools, and ocean frontal d) an infrared digital video to map birds at night. Shipboard and buoy data will be ion and interpretation of remotely sensed	Monitoring forage fish abundanc the GEM program. This is a high project to do such monitoring, ar risky than others. However, it de through the proposed developme pay-off of success would be grea	ly innovative id is therefore more serves support ent phase, as the	remote e GEM. 1 challeng efficient	sensing instr This highly in ging question ly monitor fo ogram. If the	s project, whic umentation as novative proje n, which is hov rage fish abur e project is su	s a monitor ect is workir v to effectiv ndance und	ing tool for ng on a ely and ler the

data.

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
G- 030656	Retrospective Analysis of Nearshor Marine Communities Based on Ana of Archaeological Material and Isoto	alysis Mann/UAF, J. Southon/Univ. C		Cont'd 2nd yr. 2 yr. proj	\$53.7 ect	\$0.0	\$0.0	\$0.0
This project will patterns of proo in nearshore, ir analyses. The midden remain sites along the coast. Change be assessed th abundances, si indicators of ha will provide an patterns in the	Project Abstract II investigate long-term (6,300 year) ductivity and relative species abundances intertidal communities via retrospective se analyses will focus on excavated is of very rich, well-dated archaeological Katmai National Park and Preserve es in nearshore marine communities will prough examination of relative species ize-frequency analysis, and other abitat changes. Isotopic analysis of shells assessment of long-term productivity nearshore marine environment as related ds of climate change.		elevance to ean systems long time very high, e temporal precise a er to add	overdue (\$15,90 a delay 02; an o the Tru designe in nears	oseout of this e report (994 0) in funding in the stable equivalent an stee Council ed to improve shore marine	tee Council A project contin 59). A portion over the expe isotope analys tount of funds at the end of F understandin communities productivity a	ngent on su of the incre cted amoun ses schedu will be laps TY 02. This g of long-te and investig	ease nt is due to led for FY sed back to project is rm change gate the
GEM: Alaska	Coastal Current Habitat				\$51.6	\$0.0	\$32.1	\$32.1

G-030340

Toward Long-Term Oceanographic Monitoring of the Gulf of Alaska Ecosystem T. Weingartner/ UAF

ADFG

Cont'd

6th yr.

**T** ( **O UA**()

\$0.0

\$32.1

\$32.1

\$51.6

Interannual variations in temperature and salinity on the northern Gulf of Alaska shelf reflect environmental changes that affect this marine ecosystem. Quantifying and understanding this variability require long time series such as the 32-year record at hydrographic station GAK1 near Seward. This project continues this time series, quantifies the synoptic, seasonal, and interannual variability, and seeks to understand the reasons for this variability. It will also begin to examine interannual variations in near-surface stratification and the timing of the spring bloom on the inner Gulf of Alaska shelf. The data will be used to predict the baroclinic component of the mass and freshwater transport variability in the Alaska Coastal Current in the northern gulf.

### Chief Scientist's Recommendation

This excellent project provides new insights into physical forcing/control of primary production and mass transport. The synthesis efforts are allowing new insights into proxy measures that might be applied to the 35-year historical record to understand long-term ecosystem variability. This is an excellent investment in a long-term data set that will pay future dividends in fish and wildlife management. Fund.

### Trustee Council Action

Fund, including proposed upgrade of mooring (addition of another temperature/conductivity recorder with fluorometer and transmissometer) contingent on (a) receipt of a description of the deployment procedure intended to insure against loss of data and (b) submittal of the manuscript promised in FY 02 analyzing the relationship between atmospheric pressure, precipitation, and density structure of the Alaska Coastal Current. This project provides for continued Trustee Council support of hydrographic station GAK1 and the accompanying retrospective analyses of the station's data record. GAK1 provides a long-term data set that allows characterization of the Alaska Coastal Current, which is essential to understanding climatological forcing of productivity and will be important for GEM.

**Project Abstract** 

#### FY 03 FY 03 Approved Deferred to New or FY 04 Lead FY 04 Cont'd 8/6/02 11/25/02 Agency Request Recom. Proj.No. Project Title Proposer **GEM: Offshore Habitat** \$18.1 \$0.0 \$0.0 \$0.0 ADFG Cont'd G-030614 Monitoring Program for Near-Surface S. Okkonen/UAF \$18.1 \$0.0 \$0.0 \$0.0 Temperature, Salinity, and Fluorescence 2nd vr. in the Northern Pacific Ocean 2 yr. project **Project Abstract** Chief Scientist's Recommendation **Trustee Council Action** This project will use a thermosalinograph and This is a continuation of an innovative and cost-Fund closeout of this project (data analysis and fluorometer, to be installed on a crude oil tanker, to effective project that provides data to assess the preparation of final report/manuscript). In FY 02, this acquire continuous, long-term measurements of the long-term recovery of resources impacted by the oil project installed a thermosalinograph and fluorometer near-surface temperature, salinity, and fluorescence spill against the background of climate-driven on a crude oil tanker traveling between Valdez and Long variability. The potential for the proposal to provide fields along the tanker route between Valdez. Alaska Beach. Vessels of opportunity such as this are a data from a key area of Prince William Sound and and Long Beach, California. cost-effective method that may be useful to GEM, and the adjacent ocean relevant to long-term evaluation the data collected by this project on ocean conditions in and interpretation of population trends for birds, fish Alaskan waters will be extremely useful to GEM. and mammals is excellent. Fund. **Data Management & Information Transfer** \$308.0 \$0.0 ALL Cont'd G-030455 **GEM Data System Trustee Council Office** \$212.9 \$0.0 2nd yr. Project Abstract Chief Scientist's Recommendation Trustee Council Action This project supports the data management and Data management will be a critical component of Fund. This project provides funding for the GEM Data information transfer system for GEM. Data collection, Systems Manager and related data system costs. Data GEM. collection, quality control and documentation, archiving, quality control and documentation, archiving, transfer, delivery, and presentation are critical components of transfer, delivery, and presentation are critical GEM. Project funding will allow the GEM Data Systems components of GEM. Manager to provide the leadership and expertise necessary for this essential part of the GEM program, and hire support staff to make initial aspects of the program operational.

### SPREADSHEET B: TRUSTEE COUNCIL ACTION (TEXT SPREADSHEET) -- FY 03 PHASE I WORK PLAN

August 6, 2002 (LAYOUT: TCActionAugust)

#### SPREADSHEET B: TRUSTEE COUNCIL ACTION (TEXT SPREADSHEET) -- FY 03 PHASE I WORK PLAN FY 03 EY 03 Deferred to New or Approved FY 04 **FY 04** Lead 8/6/02 11/25/02 Cont'd Agency Request Recom. Proj.No. **Project Title** Proposer ALL Cont'd Alaska Resources Library and G-030550 All Trustee Council Agencies \$95.1 \$0.0 Information Services (ARLIS) Project Abstract Chief Scientist's Recommendation Trustee Council Action This project represents the Trustee Council's Fund continuation of one librarian at the Alaska The oil spill collection at ARLIS (Alaska Resources contribution to the Alaska Resources Library and Library and Information Services) is a legacy of the Resources Library and Information Services (ARLIS). Information Services (ARLIS). ARLIS serves as a spill and an important means of providing the public Trustee Council contributions in FY 04 and beyond may with oil spill information. Defining how ARLIS might central access point for information generated through be reduced as the transition to GEM is completed. the Trustee Council restoration process and the GEM support GEM needs to be better addressed. GEM's ARLIS provides an important service for documents and library needs will likely be oriented more toward other materials produced through the damage program. In addition, ARLIS acts as the public electronic formats and processes and away from repository for reports and other materials generated assessment and restoration processes. The Council's paper documents, with an emphasis on web-based from and related to the cleanup, damage assessment original funding commitment to ARLIS was through FY services. The funds currently going toward Project and restoration efforts following the oil spill. ARLIS 01 only; how ARLIS might relate to the GEM program in supports the research efforts and information needs of 03550 might be more effectively spent in the future FY 04 and beyond is not clear at this time. on a service or services more tailored to the specific the Restoration Office, principal investigators, natural resources professionals, and the general public. research and data needs of GEM. Fund for FY 03 only. **Science Management** \$416.0 \$0.0 ALL Cont'd G-030250 Project Management All Trustee Council Agencies \$137.6 \$0.0 Project Abstract Chief Scientist's Recommendation **Trustee Council Action** Project management supports those Trustee agencies Proposal not reviewed. Fund. Project management helps provide accountability that administer and/or implement EVOS projects on for the work plan process. behalf of the Trustee Council. Tasks performed by project managers include coordinating activities between principal investigators and the Trustee Council Office. reviewing project expenditure activity, assisting in the development of project proposals, and tracking project reports.

Proj.No.	Project Title	Proposer	Lead Agency	New or Cont'd	FY 03 Approved 8/6/02	FY 03 Deferred to 11/25/02	FY 04 Request	FY 04 Recom.
G-030630	Scientific Management under GEM	Trustee Council Office	ALL	Cont'd	\$278.4	\$0.0		
<u>Pr</u>	roject Abstract	Chief Scientist's Recomme	<u>ndation</u>		Trus	tee Council A	<u>ction</u>	
This project will provide scientific oversight of implementation of the GEM program, as well as scientific oversight of lingering effects of oil on injured resources. In FY 03, the project will support the Science and Technical Advisory Committee (STAC) and other aspects of the scientific review and advisory process, develop the FY 04 Invitation to Submit Proposals, provide peer review recommendations and scientific support for the FY 03 and FY 04 work plans, continue developing a "State of the Gulf Report", provide regional input to a status report on North Pacific Marine Science Organization), and support the Lingering Oil Effects Subcommittee and review process.Proposal will not be reviewed by Chief Scientist. Proposal will not be reviewed by Chief Scientist.Fund interim amount of be necessary later in a activities and for some Committee (STAC) are are not yet scheduled ensure that the GEM high degree of scientific subcommittees comp managers, and comm also support continue dissemination of rese at which Council-fund 						a FY 03 for add ne Scientific a and subcomm d. This project 1 program is in tific integrity th nittee of indeper will be suppor posed of scien munity member ed independen d reports, as we earch results a ded scientists	ditional GEI nd Technic ittee meetir t is designe nplemented nrough esta endent exp ted by ntists, resou ers. The pro- nt peer revi well as the at an annua will preser	M planning al Advisory ngs that ed to d with a ablishment erts (the urce oject will iew of al meeting
Public Information	ation/Administration				\$1,114.3	\$0.0		
030100	Public Information and Administratio	n All Trustee Council Agencies	ALL	Cont'd	\$1,114.3	\$0.0		
P	roject Abstract	Chief Scientist's Recomme	endation		Trus	stee Council A	ction	
involvement and program, includi Trustee Council Executive Direct the active partic	vides overall support for public d administration of the restoration ing GEM. It includes funding for the staff working at the direction of the tor, public involvement efforts including ipation of the Public Advisory Committee hagement of the EVOS Investment Fund.	Proposal not reviewed.		adminis		rovides overal nplementatior		