

RPWG  
I

**RESTORATION PLANNING WORK GROUP  
FEBRUARY 4, 1993  
9:30 A.M.**

**Attendees:**

Veronica Gilbert  
Chris Swenson  
John Strand  
Karen Klinge  
Carol Gorbics  
Sandy Rabinowitch  
Ray Thompson  
Bob Loeffler

**The following items were distributed:**

Budget for Administrative Costs  
Alternative Allocation Table  
Administrative Budget Table

**AGENDA ITEMS**

- Replacement/Acquisition  
    How to Deal in Alternatives
- Injury Table (Arch)
- Geo Table/Spill Area Map
- New Options
- Ecosystem Stuff in Alternatives
- Alt. #2; logical break and Alt. #1
- Spill Prevention
- Special Designations
- Budget
  - Alt. #5
  - Admin.
- Explain Inf. - Adj.
- Wording Changes/Table

**INJURY TABLE**

Veronica stated archaeology is a human resource but not a service. Sandy stated that archaeology could be split in half as a resource and a service by definition. Veronica stated it is inconsistent to have archaeology under services. Bob suggested putting archaeology under resources. Veronica stated this is a presentation matter. Carol asked what do we gain by making this change and is this an important distinction which will change the content or implementation of the Restoration Plan. Veronica stated services is the service derived from the resources injured by the spill. Archaeology is its own resource. Veronica suggested labeling everything under services as "Archaeology and Services" and RPWG

concurrent. The table and chapter title will be changed as well. Karen stated the actual artifacts are the resource; how you use them is a service. Carol suggested identifying archaeology as a cultural resource. Bob suggested Carol and Veronica come up with a solution to this in a sub-committee. Carol suggested using sub-tables to address archaeology and RPWG concurred.

Carol, Chris, John and Bob Spies will form a subgroup, possibly on Sunday, to discuss comments one by one and identify comments which could be easily incorporated.

Veronica stated that the summary of services does not seem necessary. Sandy stated there is value in having a table. Bob, Sandy and Pam will meet to discuss comments.

Chris stated he wants to indicate on the injury table that there is some disagreement on population level effects. Karen stated that we need to make clear that the status changes are based on current information. Bob suggested indicating this in the comments section. Carol suggested using a footnote: although the species has not had a population level injury, there is still debate within the scientific community regarding the implication of the results. This is something which has to be decided by the Trustees. A subgroup could work out the language of the footnote. Chris stated we must differentiate this from other statements about injury. Carol stated there is a conflict which needs to be worked out between Fish and Game and the Chief Scientist regarding population level effects.

**Bald Eagle** - No measured decline in population. Current population status would be no change. Bob stated this section must be better explained.

#### **REPLACEMENT/ACQUISITION**

Carol came up with another variable for opportunities for replacing injured population/species with different populations and/or species. Long recovery time species include common murre, pigeon guillemot, Kenai River sockeye smolts, Harlequin duck and marbled murrelets. The concept includes resources inside and outside the spill area. Degree of effectiveness is dependent upon whether the 1) species is the same or different; if different, which species are functional equivalents, 2) number of individuals benefitted, 3) status of equivalent 4) does it address something that has a long recovery time, limited restoration options, and seriousness of injury. Veronica raised the issue that no settlement characteristics should be deleted and feels more work is needed on protection issues. Veronica asked what are the birds we are trying to increase. Carol stated they are: common murre, pigeon guillemots, alcids, auklets and other sea birds. Veronica stated she has strong feelings about using sea birds as the link and feels we need to explore this issue more. Carol stated this information

is now available. Karen stated there are at least 100 sea birds which would benefit. RPWG concurred there will be no new variable and the old variable will be changed to effectiveness.

The variable was rated as follows on the alternative table:

- 1 - n/a
- 2 - all
- 3 - most effective
- 4 - most effective
- 5 - all

Veronica questioned whether this is the best time in the history of Alaska to eliminate foxes. Veronica also recommended the following changes: leave 17.2 alone and suggested using the language: removal of introduced species. Also, before a decision is made on the method, the Trustee Council should evaluate techniques. This would remove the burden from the Restoration Plan and put it with the work plan.

Break at 11:00.

Chris stated there is a protocol which must be followed for introducing options.

## **ALTERNATIVE #2**

Bob stated he found 22 projects which could be considered protection such as Options #30 and 4. Veronica stated her RT member prefers that this alternative include habitat protection only. We have to read the plan by how some third party might read and interpret it. Veronica stated that Marty felt the TC might push for 4 alternatives rather than 5. If one must be dropped out, it could be #1, which could be used as background and include a research foundation. Veronica stated the EIS group would have to deal with the ramifications of this because for NEPA purposes, the research foundation would not be included. Bob stated he sees two problems with the research foundation: 1) there is a proposal for a research foundation already and 2) this would be confusing. Sandy suggested having a second recommendation of which alternative could be dropped. Ray stated his concern is the parallel between the EIS and Restoration Plan because you would have to change the description of the existing alternatives. Karen stated she envisions having a baseline information chapter with current status. Carol suggested stating that the alternatives should not be reduced to 4; however, if a backup is necessary, #1 could be dropped.

## **BUDGET**

Bob stated that the RT wanted habitat protection to be 80% in alternative 2. Karen stated the balance captures all those options which we don't know about yet. Bob stated that the balance

represents an important policy decision. Bob stated his RT member felt the uncommitted balance in alternative #5 should go to 30%. Bob stated he felt endowment would be a separate funding question.

#### **WORDING CHANGES**

The RT suggested developing other language which conveys what is really meant: effectiveness (all effective actions, only highly effective actions) and all stages of recovery, (resources recovered and resources not yet recovered). Alternative 5 was changed to take all effective actions.

Chris suggested under the injury variable including something about key habitats reflecting that we are not solely targeting injured species. Carol suggested including this when effectiveness is rewritten. Veronica recommended that Chris work with someone from HPWG to make sure they have looked at and understood the implications. Chris stated that Art suggested an additional variable. RPWG agreed to bring up this issue to the RT. Karen stated we don't want to lose the distinction between alternatives we have now for habitat protection. Chris suggested having a draft variable and volunteered to develop language.

Bob suggested taking spill prevention out of the table and putting it in Chapter 6. Veronica stated that more work needs to be done on it rather than just relegating it to a chapter.

Meeting adjourned at 12:15.

	Current Proposal				
	Alt #1	Atl #2	Alt #3	Alt #4	Alt #5
Administration/In	6%	7%	8%	9%	10%
Monitoring	5%	5%	8%	10%	12%
Other Restoration		3%	7%	10%	22%
Habitat Protection		80%	62%	57%	42%
Reserve	89%	5%	15%	14%	14%
Total:	100%	100%	100%	100%	100%

	DEC Proposal				
	Alt #1	Atl #2	Alt #3	Alt #4	Alt #5
Administration/In	6%	7%	7%	8%	8%
Monitoring	5%	5%	8%	10%	12%
Other Restoration		3%	7%	10%	22%
Habitat Protection		80%	63%	57%	29%
Reserve	89%	5%	15%	15%	29%
Total:	100%	100%	100%	100%	100%

Differences are 1) Use '93 budet as base for admin costs. *Miss Library*

ITEM	1993 7-month Budget	Draft 1994 Budget	ost-1995 Budgets
Admin Dir.	\$1,156.3	\$1,982	\$2,000
Finance	\$104.7	\$179	\$180
Restoration Team	\$579.1	\$993	\$990
PAG	\$155.9	\$267	\$270
Public Participat Management	\$5.3 \$33.8	\$0 \$58	\$0 \$50
Peer Review	\$576.4	\$575	\$300
1994 Work Plan	\$420.5	\$721	\$600
Cultural Resource	\$11.0	\$0	\$0
GIS	\$30.1	\$0	\$0
Environmental Com	\$316.2	\$50	\$0
RPWG	\$670.0	\$100	\$0
Habitat Protectio	\$393.0	\$400	\$0
TOTAL:	\$4,452.3	\$5,325.5	\$4,390.0

Notes: 1994 budget is 1993 \* (12/7) except that environmental compliance and RPWG are reduced because the EIS and plan are mostly finished.

Much of HPWG is rolled into project budgets.

In Post-1995 budget, RPWG and Environmental compliance are finished.

	Alternative 1 Natural Recovery	Alternative 2 Protection	Alternative 3 Limited Restoration	Alternative 4 Moderate Restoration	Alternative 5 Comprehensive Restoration
<b>THEME</b>	No action other than monitoring and normal agency management.	Protect injured resources and services from further degradation or disturbance.	Take highly effective actions to protect and restore injured services and resources whose population has declined. Maintain the existing character of the affected area.	Take highly effective actions to protect and restore all injured resources and services. Increase, to a limited extent, opportunities for human use in the affected area.	Take all effective actions to protect, restore, and enhance all injured resources and services. Increase opportunities for human use in the affected area.
<b>VARIABLES</b>					
<b>Injury</b>	N/A	All injured resources.	Injured resources whose populations declined.	All injured resources.	All injured resources.
<b>Status of Recovery</b>	N/A	Resources recovered and not yet recovered.	Resources not yet recovered.	Resources not yet recovered.	Resources recovered and not yet recovered.
<b>Effectiveness of Restoration Actions</b>	N/A	All effective actions.	Only highly effective actions.	Only highly effective actions.	All effective actions.
<b>Opportunities for Human Use</b>	N/A	Protect or increase existing uses through habitat protection.	Protect existing uses.	Protect or increase existing uses.	Protect or increase existing uses; or encourage appropriate new uses.

Monitoring and information programs are included in all alternatives.

Restoration actions may be undertaken for injured resources, services, or their equivalents in all alternatives.

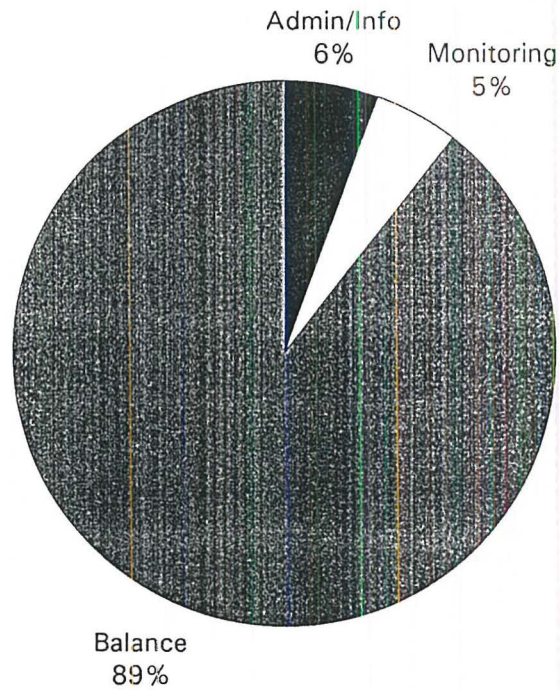
Alternative 1 - Natural Recovery														
Opt	DESCRIPTION	ResSvc	UNIT	ANNUAL COST			DURATION			TOTAL COST				
				Exp	Low	High	Type	Years			10-Year Maximum			
								E	L	H	Expected	Lower	Higher	
P1.00	Administration	Multiple resources										30190.0	30180.0	50200.0
P2.00	Monitoring	Multiple resources										25250.0	20250.0	70250.0

NE: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.



Allocation of Remainder of Settlement Funds							Total \$	%
Admin/Info							30190.0	6%
Monitoring							25250.0	5%
Balance							466560.0	89%

Alternative 1 - Allocation



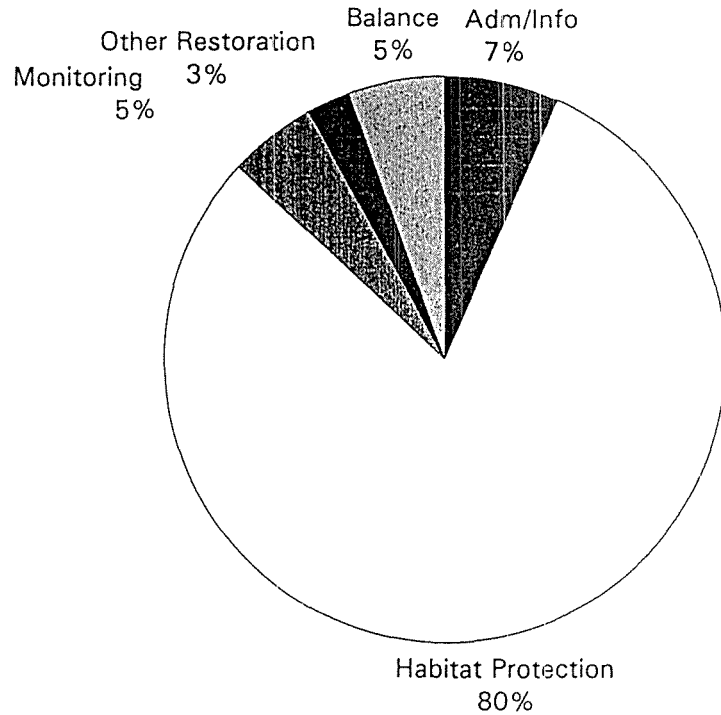
NB: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.

Alternative 2 - Protection													
Opt	DESCRIPTION	ResSvc	UNIT	ANNUAL COST			DURATION			TOTAL COST			
				Exp	Low	High	Type	Years			10-Year Maximum		
								E	L	H	Expected	Lower	Higher
1.10	Site stewardship program	Archaeology	Per 3 areas	195.0	195.0	195.0	Ltd	10	10	10	1950.0	1950.0	1950.0
1.20	Site patrol and monitoring	Archaeology		300.0	300.0	300.0	Ltd	4	3	5	1200.0	900.0	1500.0
4.10	Reduce disturbance	Common murre									330.0	185.0	640.0
4.20	Reduce disturbance	Harbor seal									330.0	185.0	640.0
4.30	Feas Study: Reduce disturb	Sea otter					Ltd				120.0	80.0	640.0
4.40	Reduce disturb public info	Multiple resources		40.0	30.0	50.0	Ltd	1	1	1	40.0	30.0	50.0
4.50	Reduce disturb field presence	Multiple resources		438.0	390.0	486.0	Ltd	10	10	10	4380.0	3900.0	4860.0
10.00	Archaeol Res Protection	Archaeology									4072.0	3250.0	7000.0
19.10	Anad Stream Catalogue	Cutthroat trout		335.0	300.0	400.0	Ltd	1	1	1	335.0	300.0	400.0
19.30	Anad Stream Catalogue	Pink salmon		650.0	600.0	800.0	Ltd	1	1	1	650.0	600.0	800.0
37.00	Habitat protection/acquisition	Multiple resources									420000.0	130000.0	420000.0
40.00	Special designation	Multiple resources											
44.00	Spill prevention/conting plng	Multiple resources					Ltd						
P1.00	Administration	Multiple resources									35190.0	30180.0	50200.0
P2.00	Monitoring	Multiple resources									25250.0	20250.0	70250.0

NE: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.

Allocation of Remainder of Settlement Funds										Total \$	%
Adm/Info										35190.0	7%
Habitat Protection										420000.0	80%
Monitoring										25250.0	5%
Other Restoration										13407.0	3%
Balance										28153.0	5%

Alternative 2 - Allocation



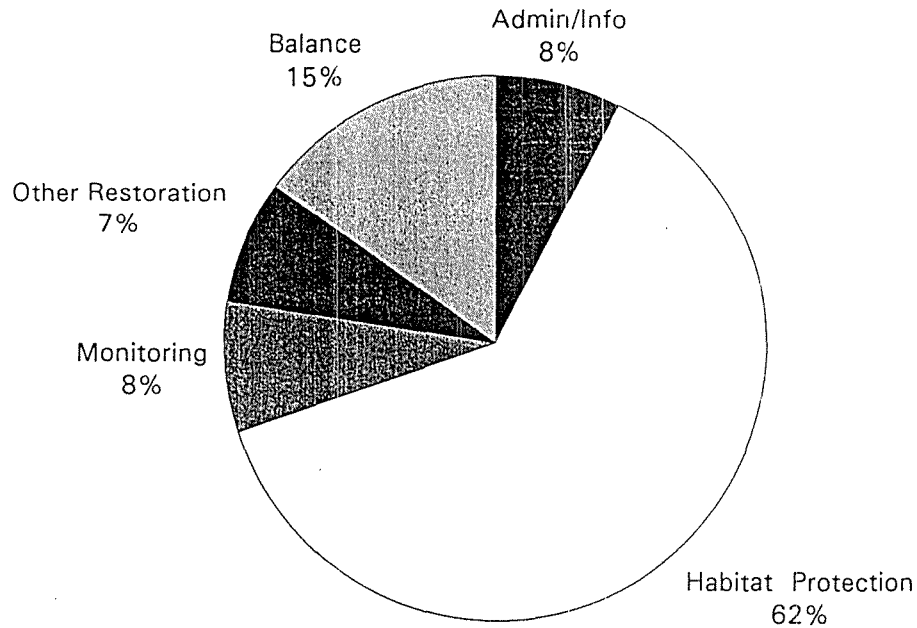
NB: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.

Alternative 3 - Limited Restoration													
Opt	DESCRIPTION	ResSvc	UNIT	ANNUAL COST			DURATION			TOTAL COST			
				Exp	Low	High	Type	Years			10-Year Maximum		
								E	L	H	Expected	Lower	Higher
1.10	Site stewardship program	Archaeology	Per 3 areas	195.0	195.0	195.0	Ltd	10	10	10	1950.0	1950.0	1950.0
1.20	Site patrol and monitoring	Archaeology		300.0	300.0	300.0	Ltd	4	3	5	1200.0	900.0	1500.0
2.50	Intensify management	Sockeye salmon		3000.0	2000.0	5000.0	Ltd	5	2	5	15000.0	4000.0	25000.0
4.30	Feas Study: Reduce disturb	Sea otter					Ltd				120.0	80.0	640.0
9.00	Minimize incidental take	Marbled murrelet									1625.0	1100.0	2000.0
10.00	Archaeol Res Protection	Archaeology									4072.0	3250.0	7000.0
12.10	New backcountry rec facilities	Recreation									1620.0	480.0	3256.0
13.10	Eliminate oil from mussel beds	Harlequin duck		491.0	340.0	641.0	Ltd	5	4	7	2455.0	1360.0	4487.0
13.20	Feas Study: Elim oil fr mus bds	Sea otter											
14.10	Accelerate recovery of UIT	Intertidal organisms		150.0	100.0	200.0	UR	5	4	7	750.0	400.0	1400.0
16.10	Feas Study: Social stimuli	Common murre					Ltd				850.0	800.0	5500.0
17.21	Reduce predator access	Common murre		350.0	300.0	400.0	Ltd	5	5	10	1750.0	1500.0	4000.0
17.22	Reduce predator access	Pigeon guillemot		200.0	150.0	250.0	Ltd	4	4	6	800.0	600.0	1500.0
18.10	Replace harvest opportunities	Comm fishing	5 runs	750.0	500.0	1000.0	Ltd	2	1	5	1500.0	500.0	5000.0
18.20	Replace harvest opportunities	Sport fishing	5 runs	750.0	250.0	1000.0	Ltd	2	1	5	1500.0	250.0	5000.0
30.00	Test subsistence foods	Subsistence		330.0	300.0	350.0	Ltd	3	2	5	990.0	600.0	1750.0
37.00	Habitat protection/acquisition	Multiple resources									325000.0	130000.0	420000.0
40.00	Special designation	Multiple resources											
44.00	Spill prevention/conting plng	Multiple resources					Ltd						
45.00	Feas Study: Black cod gear	Killer whale		30.0	30.0	30.0	Ltd	1	1	1	30.0	30.0	30.0
46.00	Coop prgm-fishermen	Harbor seal		50.0	30.0	100.0	Ltd	3	1	5	150.0	30.0	500.0
47.10	Coop prgm-subsistence users	Harbor seal		30.0	30.0	30.0	UR	10	10	10	300.0	300.0	300.0
47.10	Coop prgm-subsistence users	Sea otter					UR						
48.20	Improve survival rates	Sockeye salmon	Per run	400.0	200.0	600.0	Ltd	3	1	5	1200.0	200.0	3000.0
49.00	Access to traditional foods	Subsistence		53.0	50.0	60.0	UR	10	10	10	530.0	500.0	600.0
P1.00	Administration	Multiple resources									40190.0	30180.0	50200.0
P2.00	Monitoring	Multiple resources									40250.0	20250.0	70250.0

NE: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.

Allocation of Remainder of Settlement Funds										Total \$	%
Admin/Info										40190.0	8%
Habitat Protection										325000.0	62%
Monitoring										40250.0	8%
Other Restoration										38392.0	7%
Balance										78168.0	15%

Alternative 3 - Allocation



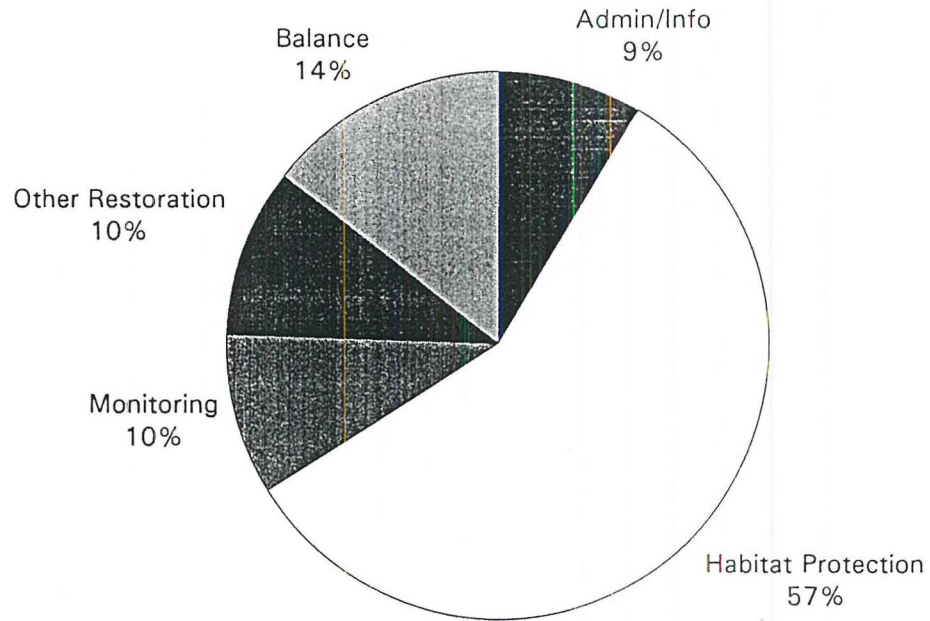
NB: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.

Alternative 4 - Moderate Restoration													
Opt	DESCRIPTION	ResSvc	UNIT	ANNUAL COST			DURATION				TOTAL COST		
				Exp	Low	High	Type	Years			10-Year Maximum		
								E	L	H	Expected	Lower	Higher
1.10	Site stewardship program	Archaeology	Per 3 areas	195.0	195.0	195.0	Ltd	10	10	10	1950.0	1950.0	1950.0
1.20	Site patrol and monitoring	Archaeology		300.0	300.0	300.0	Ltd	4	3	5	1200.0	900.0	1500.0
2.10	Intensify management	Cutthroat/Dolly		255.0	200.0	300.0	Ltd	2	2	2	510.0	400.0	600.0
2.20	Intensify management	Pacific herring		457.0	440.0	500.0	Ltd	3	2	4	1371.0	880.0	2000.0
2.30	Intensify management	Pink salmon		3000.0	2000.0	5000.0	Ltd	2	2	4	6000.0	4000.0	20000.0
2.40	Intensify management	Rockfish		593.0	550.0	700.0	Ltd	2	1	4	1186.0	550.0	2800.0
2.50	Intensify management	Sockeye salmon		3000.0	2000.0	5000.0	Ltd	5	2	5	15000.0	4000.0	25000.0
4.30	Feas Study: Reduce disturb	Sea otter					Ltd				120.0	80.0	640.0
9.00	Minimize incidental take	Marbled murrelet									1625.0	1100.0	2000.0
10.00	Archaeol Res Protection	Archaeology									4072.0	3250.0	7000.0
11.20	Fertilize lakes	Sockeye salmon	Per lake	190.0	150.0	220.0	Ltd	3	1	5	570.0	150.0	1100.0
12.10	New backcountry rec facilities	Recreation									1620.0	480.0	3256.0
13.10	Eliminate oil from mussel beds	Harlequin duck		491.0	340.0	641.0	Ltd	5	4	7	2455.0	1360.0	4487.0
13.20	Feas Study: Elim oil fr mus bds	Sea otter											
14.10	Accelerate recovery of UIT	Intertidal organisms		150.0	100.0	200.0	UR	5	4	7	750.0	400.0	1400.0
16.10	Feas Study: Social stimuli	Common murre					Ltd				850.0	800.0	5500.0
17.10	Eliminate introduced foxes	Seabird repl					UR				2500.0	1500.0	3500.0
17.21	Reduce predator access	Common murre		350.0	300.0	400.0	Ltd	5	5	10	1750.0	1500.0	4000.0
17.22	Reduce predator access	Pigeon guillemot		200.0	150.0	250.0	Ltd	4	4	6	800.0	600.0	1500.0
18.10	Replace harvest opportunities	Comm fishing	5 runs	750.0	500.0	1000.0	Ltd	2	1	5	1500.0	500.0	5000.0
18.20	Replace harvest opportunities	Sport fishing	5 runs	750.0	250.0	1000.0	Ltd	2	1	5	1500.0	250.0	5000.0
30.00	Test subsistence foods	Subsistence		330.0	300.0	350.0	Ltd	3	2	5	990.0	600.0	1750.0
35.00	Aquire archaeol. artifacts	Archaeology		225.0	150.0	300.0	Ltd	3	3	3	675.0	450.0	900.0
37.00	Habitat protection/acquisition	Multiple resources									300000.0	130000.0	420000.0
40.00	Special designation	Multiple resources											
44.00	Spill prevention/conting plng	Multiple resources					Ltd						
46.00	Coop prgm-fishermen	Harbor seal		50.0	30.0	100.0	Ltd	3	1	5	150.0	30.0	500.0
47.10	Coop prgm-subsistence users	Harbor seal		30.0	30.0	30.0	UR	10	10	10	300.0	300.0	300.0
47.10	Coop prgm-subsistence users	Sea otter					UR						
48.20	Improve survival rates	Sockeye salmon	4 runs	400.0	200.0	600.0	Ltd	3	1	5	1200.0	200.0	3000.0
49.00	Access to traditional foods	Subsistence	Per village	53.0	50.0	60.0	UR	10	5	10	530.0	250.0	600.0
51.00	Relocate existing hatchery runs	Pink salmon	Per run				Ltd	22	2	3			
P1.00	Administration	Multiple resources									45190.0	30180.0	50200.0
P2.00	Monitoring	Multiple resources									50250.0	20250.0	70250.0

NE: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.

Allocation of Remainder of Settlement Funds							Total \$	%
Admin/Info						45190.0	9%	
Habitat Protection						300000.0	57%	
Monitoring						50250.0	10%	
Other Restoration						51174.0	10%	
Balance						75386.0	14%	

Alternative 4 - Allocation



NB: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.

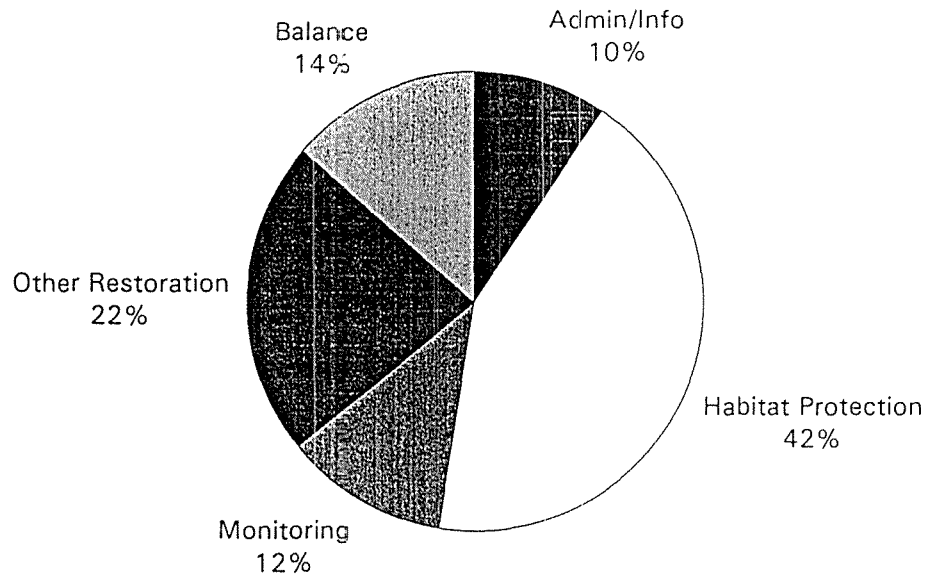
Alternative 5 - Comprehensive Restoration													
Opt	DESCRIPTION	ResSvc	UNIT	ANNUAL COST			DURATION			TOTAL COST			
				Exp	Low	High	Type	Years			10-Year Maximum		
								E	L	H	Expected	Lower	Higher
1.10	Site stewardship program	Archaeology	Per 3 areas	195.0	195.0	195.0	Ltd	10	10	10	1950.0	1950.0	1950.0
1.20	Site patrol and monitoring	Archaeology		300.0	300.0	300.0	Ltd	4	3	5	1200.0	900.0	1500.0
2.10	Intensify management	Cutthroat/Dolly		255.0	200.0	300.0	Ltd	2	2	2	510.0	400.0	600.0
2.20	Intensify management	Pacific herring		457.0	440.0	500.0	Ltd	3	2	4	1371.0	880.0	2000.0
2.30	Intensify management	Pink salmon		3000.0	2000.0	5000.0	Ltd	2	2	4	6000.0	4000.0	20000.0
2.40	Intensify management	Rockfish		593.0	550.0	700.0	Ltd	2	1	4	1186.0	550.0	2800.0
2.50	Intensify management	Sockeye salmon		3000.0	2000.0	5000.0	Ltd	5	2	5	15000.0	4000.0	25000.0
4.10	Reduce disturbance	Common murre									330.0	185.0	640.0
4.20	Reduce disturbance	Harbor seal									330.0	185.0	640.0
4.30	Feas Study: Reduce disturb	Sea otter					Ltd				120.0	80.0	640.0
4.40	Reduce disturb public info	Multiple resources		40.0	30.0	50.0	Ltd	1	1	1	40.0	30.0	50.0
4.50	Reduce disturb field presence	Multiple resources		438.0	390.0	486.0	Ltd	10	10	10	4380.0	3900.0	4860.0
8.10	Sport/trap harvest guidelines	Harlequin duck		15.0	10.0	30.0	Ltd	2	1	2	30.0	10.0	60.0
8.20	Sport/trap harvest guidelines	River otter		15.0	10.0	30.0	Ltd	2	1	2	30.0	10.0	60.0
9.00	Minimize incidental take	Marbled murrelet									1625.0	1100.0	2000.0
10.00	Archaeol Res Protection	Archaeology									4072.0	3250.0	7000.0
11.10	Salmon spawning channels	Pink salmon	9 total	579.0	579.0	579.0	Ltd	6	6	6	3474.0	3474.0	3474.0
11.20	Fertilize lakes	Sockeye salmon	Per lake	190.0	150.0	220.0	Ltd	3	1	5	570.0	150.0	1100.0
11.30	Fish passes	Pink salmon	5 passes	250.0	64.0	1900.0	Ltd	6	6	10	1500.0	384.0	19000.0
11.30	Fish passes	Sockeye salmon	2 passes	100.0	25.0	800.0	Ltd	6	6	10	600.0	150.0	8000.0
12.10	New backcountry rec facilities	Recreation									1620.0	480.0	3256.0
12.20	Pln/mkt comm rec facilities	Recreation		275.0	200.0	350.0	Ltd	1	1	1	275.0	200.0	350.0
13.10	Eliminate oil from mussel beds	Harlequin duck		491.0	340.0	641.0	Ltd	5	4	7	2455.0	1360.0	4487.0
13.20	Feas Study: Elim oil fr mus bds	Sea otter											
14.10	Accelerate recovery of UIT	Intertidal organisms		150.0	100.0	200.0	UR	5	4	7	750.0	400.0	1400.0
14.20	Accelerate recovery of UIT	Black oystercatchers											
16.10	Feas Study: Social stimuli	Common murre					Ltd				850.0	800.0	5500.0
16.20	Feas Study: Impr nest sites	Common murre					Ltd				850.0	800.0	5500.0
17.10	Eliminate introduced foxes	Seabird repl					UR				2500.0	1500.0	3500.0
17.21	Reduce predator access	Common murre		350.0	300.0	400.0	Ltd	5	5	10	1750.0	1500.0	4000.0
17.22	Reduce predator access	Pigeon guillemot		200.0	150.0	250.0	Ltd	4	4	6	800.0	600.0	1500.0
18.10	Replace harvest opportunities	Comm fishing	5 runs	750.0	500.0	1000.0	Ltd	2	1	5	1500.0	500.0	5000.0
18.20	Replace harvest opportunities	Sport fishing	5 runs	750.0	250.0	1000.0	Ltd	2	1	5	1500.0	250.0	5000.0
18.30	Replace harvest opportunities	Subsistence	5 runs	750.0	250.0	1000.0	Ltd	4	1	10	3000.0	250.0	10000.0

NB: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.



Allocation of Remainder of Settlement Funds										Total \$	%
Admin/Info										50190.0	10%
Habitat Protection										225000.0	43%
Monitoring										60250.0	12%
Other Restoration										115878.0	22%
Balance										70682.0	14%

Alternative 5 - Allocation



NE: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.

Opt	DESCRIPTION	ResSvc	UNIT	ANNUAL COST			DURATION			TOTAL COST			
				Exp	Low	High	Type	Years			10-Year Maximum		
								E	L	H	Expected	Lower	Higher
19.10	Anad Stream Catalogue	Cutthroat trout	PWS	335.0	300.0	400.0	Ltd	1	1	1	335.0	300.0	400.0
19.30	Anad Stream Catalogue	Pink salmon	PWS/Afog	650.0	600.0	800.0	Ltd	1	1	1	650.0	600.0	800.0
30.00	Test subsistence foods	Subsistence		330.0	300.0	350.0	Ltd	3	2	5	990.0	600.0	1750.0
33.00	Visitor center	Recreation	Per 5000 sf				Ltd				1000.0	750.0	1750.0
34.00	Marine environmental institute	Recreation									42000.0	42000.0	42000.0
35.00	Aquire archaeol. artifacts	Archaeology		225.0	150.0	300.0	Ltd	3	3	3	675.0	450.0	900.0
37.00	Habitat protection/acquisition	Multiple resources									225000.0	225000.0	420000.0
40.00	Special designation	Multiple resources											
44.00	Spill prevention/conting plng	Multiple resources					Ltd						
45.00	Feas Study: Black cod gear	Killer whale		30.0	30.0	30.0	Ltd	1	1	1	30.0	30.0	30.0
46.00	Coop prgm-fishermen	Harbor seal		50.0	30.0	100.0	Ltd	3	1	5	150.0	30.0	500.0
47.10	Coop prgm-subsistence users	Harbor seal		30.0	30.0	30.0	UR	10	10	10	300.0	300.0	300.0
47.10	Coop prgm-subsistence users	Sea otter					UR						
48.10	Improve survival rates	Pink salmon	4 runs	400.0	200.0	600.0	Ltd	3	1	5	1200.0	200.0	3000.0
48.20	Improve survival rates	Sockeye salmon	4 runs	400.0	200.0	600.0	Ltd	3	1	5	1200.0	200.0	3000.0
49.00	Access to traditional foods	Subsistence	Per village	53.0	50.0	60.0	UR	10	5	10	530.0	250.0	600.0
50.10	Subsistence mariculture sites	Subsistence		550.0	180.0	600.0	Ltd	3	2	4	1650.0	360.0	2400.0
50.20	Bivalve shellfish hatchery etc	Subsistence		1000.0	1300.0	2500.0	Ltd	3	2	4	3000.0	2600.0	10000.0
51.00	Relocate existing hatchery runs	Pink salmon	Per run				Ltd						
P1.00	Administration	Multiple resources									50190.0	30180.0	50200.0
P2.00	Monitoring	Multiple resources									60250.0	20250.0	70250.0

NE: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.

Alternative 5 - Allocation of "Other Restoration" by Resource/Service											
	Archaeology									7897.0	1.5%
	Birds									11190.0	2.1%
	Fish									33596.0	6.4%
	Intertidal organisms									750.0	0.1%
	Marine Mammals									930.0	0.2%
	Terrestrial Mammals									30.0	0.0%
	Commercial Fishing									1500.0	0.3%
	Recreation									44895.0	8.6%
	Sport Fishing									1500.0	0.3%
	Subsistence									10670.0	2.0%
	Wilderness										
	Multiple Resources									339860.0	65.1%
	Total Allocated									452818.0	86.7%
	Balance									69182.0	13.3%

NB: All costs are expressed in units of \$1,000 (1993 \$). The inflation-adjusted value of the remainder of the settlement is about \$522 million.