
**Coastal Impact Assistance Program
State of Alaska - Final Coastal Impact Assistance Plan**

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Coastal Impact Assistance Program – Background

The federal Coastal Impact Assistance Program (CIAP) provides a one-time appropriation to states with off-shore oil activities. Alaska will receive an appropriation of \$12,208,723. Based on the CIAP legislation, thirty-five percent, or \$4,273,053, will be divided among eighteen coastal boroughs and Coastal Resource Service Areas with the remaining \$7,935,670 allocated to the State.

To be eligible to receive the appropriation, the Governor must prepare and submit to the Secretary of Commerce by July 2, 2001, a Coastal Impact Assistance Plan. Funds received by the State may only be used for the purposes authorized in the CIAP legislation and for the uses specified in the plan.

The CIAP legislation provides that:

The Secretary shall approve the plan if the Secretary determines that the plan is consistent with the uses set forth in the legislation and if the plan contains each of the following:

- (A) The name of the State agency that will have the authority to represent and act for the State in dealing with the Secretary.
- (B) A program for the implementation of the plan which describes how the amounts provided under the program will be used.
- (C) A contact for each political subdivision and description of how coastal political subdivisions will use amounts provided under the program, including a certification by the governor that such uses are consistent with the program's authorized uses.
- (D) Certification by the governor that ample opportunity has been accorded for public participation in the development and revision of the plan.
- (E) Measures for taking into account other relevant federal resources and programs.

This document is the State's Coastal Impact Assistance Plan as required under the CIAP legislation.

I. DESIGNATED STATE AGENCY

The CIAP legislation requires that the Coastal Impact Assistance Plan provide the name of the state agency that will have the authority to represent and act for the State in dealing with the Secretary for purposes of the program (§31(d)(2)(A)).

The Office of the Governor, Division of Governmental Coordination (DGC), is the point of contact for the Coastal Impact Assistance Program. DGC is the lead agency for the Alaska Coastal Management Program and is experienced in coordinating the involvement of local communities, state and federal agencies, and the public in managing Alaska's coastal resources. DGC coordinated development of this plan and will remain the point of contact for administering the program following plan approval.

The DGC points of contact are Patrick Galvin, Director; or Lisa Weissler, CIAP Coordinator. They may be reached at:

Division of Governmental Coordination
Office of the Governor
P.O. Box 110030
Juneau, Alaska 99811-0030
907-465-3562 (phone)
907-465-3075 (fax)

II. CERTIFICATION

The CIAP legislation requires a certification by the Governor that the uses proposed by coastal political subdivisions are consistent with the requirements of the program (§31(d)(2)(C)) and that ample opportunity has been accorded for public participation in the development of the plan (§31(d)(2)(D)).

The State of Alaska, Governor Tony Knowles, hereby certifies that the uses proposed by the eighteen coastal political subdivisions and the State are consistent with the authorized uses under the Coastal Impact Assistance Program, and that ample opportunity has been provided for public participation in the development of the Coastal Impact Assistance Plan.

/s/

Tony Knowles, Governor
State of Alaska

Date: July 2, 2001

III. PUBLIC PARTICIPATION

A. Public Process

The State of Alaska involved the public in the development of the Coastal Impact Assistance Plan as follows:

February 14, 2001: DGC sent a letter to eligible coastal political subdivisions requesting a contact for local and state plan development. All eighteen subdivisions responded.

April 3: The CIAP coordinator presented an overview of the coastal impact assistance program to the statewide coastal conference in Juneau – approximately 100 people from all areas of the coast were in attendance.

April 5: The State conducted a coastal community CIAP workshop open to the public in Juneau. 24 people attended either in person or by phone. Twelve of the 24 attendees were designated coastal political subdivision contacts.

April 12: A public notice initiating a 15-day comment period soliciting public input under the CIAP was published in Alaska newspapers, posted on the internet and e-mailed to almost 300 organizations (including federal agencies, Native organizations, fishing groups, conservation groups, industry representatives, private industry and other potentially interested organizations). An information packet explaining the program was attached to the e-mail messages and posted on the coastal management program website.

April 17: An update to the public notice was e-mailed to the distribution list and posted on the web. The update provided notice of the official allocation from NOAA that was received by the State on April 16.

May 17: A public notice announcing the availability of the draft Coastal Impact Assistant Plan and providing for a 30-day public comment period was published in Alaska newspapers, posted on the internet and e-mailed to almost 300 organizations and other interested parties. The draft plan was attached to the e-mail messages and posted on the coastal management program website.

B. State Decision-making Process

A state working group was formed to consider public and agency comments and to develop a list of recommendations for use of the state portion of CIAP funds. The working group consisted of the following state officials:

Frank Rue, Commissioner, Department of Fish and Game
Michele Brown, Commissioner, Department of Environmental Conservation
Marty Rutherford, Deputy Commissioner, Department of Natural Resources
Rob Bosworth, Deputy Commissioner, Department of Fish and Game
Kurt Fredriksson, Deputy Commissioner, Dept. of Environmental Conservation

Pat Galvin, Director, Division of Governmental Coordination
Ken Taylor, Director, Habitat Division, Department of Fish and Game
Mary Pete, Director, Subsistence Division, Department of Fish and Game
Pat Poland, Director, Division of Community and Business Development, Department of Community and Economic Development
Molly McCammon, Executive Director, Exxon Valdez Oil Spill Trustee Council
Craig Tillery, Assistant Attorney General, Department of Law
Marianne See, Restoration Specialist, Department of Environmental Conservation
Amy Skilbred, Federal Management Research Coordinator, Dept. of Fish and Game
Lisa Weissler, CIAP Coordinator, Division of Governmental Coordination

The initial public notice solicited input on statewide coastal issues and the types of projects that might address those issues through use of CIAP funds. Forty-six comments from a range of individuals, organizations, and government agencies were timely received. The comments are summarized in Appendix C. Comments identified the following possible uses for CIAP funds: coastal resource education; easier accessibility to available coastal resource information; additional coastal resource information (including mapping and aerial photography); additional funds for implementing the Alaska Coastal Management Program; coastal erosion control; habitat protection, restoration, conservation, and enhancement; and additional funds for specific research projects. Many commenters proposed specific projects to address coastal issues and included approximate project costs. Funding requests totaled over \$14 million.

The overall objectives for use of the state portion of the CIAP funds are to provide funding for projects that are most likely to provide a statewide benefit for the state's coastal areas and that will produce tangible products. For state projects, the goal is that products can be expanded upon should additional CIAP funds be made available in the future. The working group based its recommendations on these objectives and on consideration of public comments.

Several commenters requested funds for research projects. A decision was made to not use CIAP funds for research projects because there are multiple sources of research funds with established grant review procedures already in place, including the Gulf Ecosystem Monitoring Program and the newly established North Pacific Research Board. These entities will receive annual appropriations to provide grants for research activities regarding fisheries or marine ecosystems in the North Pacific Ocean, Bering Sea, Arctic Ocean, and the Gulf of Alaska. Considerable time and effort would be required of the State to establish an appropriate review board and the type of review process necessary for selecting research projects to receive CIAP funds. In addition, research in Alaska is costly. Just a few research projects could easily consume most, if not all, of the one-time \$8 million appropriation. The State will reconsider the decision to exclude funding for research projects should additional CIAP funds be made available in the future. Meanwhile, the State will facilitate use of research information through establishment of a shared information system (described below).

Nine comments were submitted in response to the solicitation for comment on the draft plan. Appendix D contains a summary of the comments and the State's response to the comments. A copy of the comments is provided in Attachment 1.

IV. IMPLEMENTATION PROGRAM

The CIAP legislation requires that the state plan contain "a program for the implementation of the plan which describes how the amounts provided under the [legislation] will be used" (§31(d)(2)(B)).

This plan provides general information regarding the projects that the state intends to implement with CIAP funds. Specific project details will be developed following submission of the plan to NOAA. The State may develop a Memorandum of Understanding with NOAA for the efficient disbursement of funds under the coastal impact assistance program.

A. Trust Fund

The legislation gives the State (or a coastal political subdivision) the authority to deposit CIAP funds in a State (or local government) administered trust fund dedicated to uses consistent with the legislation. In its guidance to states, NOAA asserts that any interest generated from a trust fund must be returned to the federal government. While the State would like to establish a trust fund, the administrative costs of returning interest to the federal government would exceed the benefit of having such a fund. The State does not believe that in permitting trust funds, Congress intended that interest must be paid back to the federal government. The State will continue investigating the possibility of putting the state's portion of CIAP funds into a trust fund. Whether the State establishes a trust fund will depend on whether the matter of interest earned is resolved to the State's satisfaction. Additional considerations will also include administrative and management requirements, and the cost of setting up and administering the trust fund. If a trust fund is established, use of the fund will be dedicated to the uses listed in this plan.

B. Summary of Uses for State CIAP Funds.

The State of Alaska will dedicate coastal impact assistance program funds to the following uses (described below):

1. \$3.1 million - Competitive Grants Program.
2. \$200,000 - Grant Funds for Alaska Coastal Resource Districts.
3. \$1.7 million - Ocean, Coastal and Watershed Information System.
4. \$800,000 - Coastal Resource Inventory Project.
5. \$1.0 million - Cataloging Anadromous Fish Streams.
6. \$750,000 - Regional Coastal Program Planning.
7. \$150,000 - Ocean, Coastal and Watershed Symposium/State of the Oceans and Watersheds Report.
8. \$235,670 - Implementation and Administration of the CIAP Plan.

TOTAL = \$7,935,670

C. Description of Uses for State CIAP Funds.

1. Competitive Grants Program

Through the initial solicitation of comments under the coastal impact assistance program, commenters provided examples of numerous projects that would benefit the state's coastal area and populations. In order to provide a fair process for determining projects that will be funded with coastal impact assistance funds, a competitive grant fund and review process will be established.

The existing Coastal Policy Council (CPC) will establish grant criteria, solicit project proposals, and select projects to receive CIAP funds (the council consists of nine local government officials that represent all the state's coastal regions and six state government officials). The grant program will be open to applications from coastal resource districts, state and local government agencies, tribal organizations, non-profit organizations, individuals, private industry and other interested parties. The program will be in place until the grant funds are expended.

The grant fund will be dedicated to funding the following categories of projects:

- a. Education, particularly of young people, to develop an understanding and appreciation for coastal environments and watersheds. Examples of eligible activities include, but are not limited to: improving school curriculum materials about coastal resources and their management; program development or expansion by coastal education organizations; and developing school based monitoring programs
- b. Conservation, restoration, enhancement or protection of coastal and marine areas, including wetlands and watersheds. Examples of eligible activities include, but are not limited to: coastal erosion control; mitigation of impacts from off-road vehicles on wetlands; improving fish passage in anadromous fish streams; coastal resource protection through habitat protection, including land acquisition; marine debris removal; and coastal resource inventory, mapping and monitoring.

Criteria for grant funds will include the following (the CPC may develop additional criteria as needed and appropriate):

- (1) Project can be implemented within two (2) years.
- (2) Project meets one or more of the categories of uses authorized in the CIAP legislation and is consistent with the intent of the legislation.
- (3) Project is coordinated with other federal and state resources and programs when possible.
- (4) Duplication of projects or program activities is avoided.
- (5) Collaboration with state and federal agencies, non-profit organizations and other entities is considered and incorporated when appropriate and beneficial to the project.

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- (6) Project request is not an alternative or replacement for existing resources and funding sources.
 - (7) Project justification demonstrates the need for funding.
 - (8) Project will not pose or create environmental or public health problems.
 - (9) Assurance is given by the applicant that all costs beyond the approved allocation can and will be borne by the applicant.
 - (10) Applicant has demonstrated a commitment and ability to maintain and monitor the project.
 - (11) Applicant has demonstrated meaningful public involvement in project selection.
 - (12) The project has a high likelihood of success.

Allocation: \$3.1 million for grants and grant administration.

The proposed competitive grant fund is consistent with the following authorized uses:

- conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats.
- protection and restoration of natural coastline protective features, including control of coastal erosion.
- projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.
- projects and activities for the conservation, protection or restoration of wetlands.

2. Provide grant funds for Alaska Coastal Resource Districts

\$200,000 of CIAP funds will be used to increase the amount available for the state's thirty-five coastal resource districts to conduct special projects (such as updating coastal district management plans) under section 306 of the federal Coastal Zone Management Act. All coastal districts may apply for these funds in the same manner as they apply for section 306 grants except that no local match is required and proposed uses must be consistent with the uses authorized under the CIAP legislation. Coastal resource districts may also apply for the competitive grants described above.

Allocation: \$200,000 for grants.

The proposed grant fund is consistent with the following authorized uses:

- activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act.

- implementation of Federally approved marine, coastal, or comprehensive conservation management plans.
 - assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.
3. Establish an information system for useable and accessible shared oceans, coastal and watershed information.

In order to maintain the health and economic viability of Alaska's oceans, watersheds and coastal areas, it is critical that management and policy decisions be based on sound scientific information. When scientific information does not underlie decisions, there is a risk of lost economic opportunities or, alternatively, there may be irreversible damage to ocean and coastal resources and environments. Yet, much of the ocean, coastal, and watershed information scientists have already produced is not easily accessible or useable by state, federal, local government or tribal resource managers, industry, policy makers, non-governmental organizations and the public.

As one public commenter stated:

Reports, studies, maps, surveys, aerial photos, satellite images, and associated information have been produced by many sources over the years. Much of this information is used for one project and then filed and forgotten. This data would be useful for many additional purposes over many years if people could find and use it. When this information is not used, the value of the unseen data is wasted. Decisions are made without appropriate information, redundant information is unnecessarily recreated, project costs are increased, efficiency and time is lost . . . There is a growing need for a coordinated comprehensive approach to providing baseline and updated information about coastal resources, including the uplands and watersheds that affect the coastal resources . . .

To address this need, State CIAP funds will be used to establish an information system that will provide Alaska ocean, coastal and watershed information and data in a manner that is readily useable to state, federal, local and tribal agencies, industry, policy makers, non-governmental organizations and the public.

Several systems are currently being developed to centralize ocean, coastal and watershed related information (for example, the multi-agency Cook Inlet Information Management and Monitoring System (CIIMMS) and ADF&G's Integrated Coastal Resources Database System). Most systems being developed are region or project specific but have the potential for statewide expansion. The project proposed here will not duplicate existing efforts, but rather will strive to coordinate those efforts, reduce the duplication that currently exists, and cover all state ocean, coastal and watershed areas. In addition, the project will include training for state, local government, and tribal resource managers, policy makers, educators, industry, and the public in the use of the system.

A concurrent effort will involve working with government research entities to ensure that the results of scientific research are summarized in a manner that is meaningful and useable for decision-makers and the public. The information will be incorporated into the centralized information system. Another component of the system will be to gather and make available local knowledge that may assist coastal resource decision-making and research. To assist in this effort, funds may be provided to tribal and non-profit organizations engaged in collecting and disseminating local knowledge.

CIAP funds will be used for state staff, contractors or consultants, and the equipment necessary to establish, implement and maintain the information system. Funds may be provided to on-going state efforts as appropriate. To ensure a broad-based approach in the development of the system, the project will be located within the state Division of Governmental Coordination.

Allocation: \$1.7 million for personnel, contractual, equipment, travel and other associated costs.

The proposed information system is consistent with the following authorized uses:

- activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act.
- addressing watershed protection or other coastal or marine conservation needs which cross jurisdictional boundaries.
- assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.
- projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

4. Coastal Resource Inventory Project

Baseline coastal resource inventory information is needed to provide information to coastal resource districts, government and tribal agencies, industry, non-governmental organizations and the public for planning purposes. Federal, state, and municipal agencies collect a wide range of environmental and socioeconomic resource information regarding coastal areas and the surrounding environment. However, at the present time, this data collection is not coordinated with local needs and many agencies and local governments may not be aware of some of the information that is collected. CIAP funds will be used to initiate a resource inventory project with the following initial products:

- a. compilation of a catalogue of existing coastal resource inventory data (will be incorporated into the information system described above);

- b. an assessment of information needed by local, state, federal and tribal agencies and user groups for ocean, coastal and watershed management and planning;
- c. identification of resource data gaps; and
- d. development of a strategy for multi-agency coordination to maintain and add to existing information.

Gathering data to fill identified gaps will occur as additional funds become available or through other funding sources. Consideration will be given to developing a program for gathering resource inventory data on an annual basis by schools or other local entities. For example, there is a need for monitoring water quality around the coast. With funding from the coastal impact assistance program, the Alaska Department of Environmental Conservation could provide schools with the equipment and training needed to gather water quality data annually. The information would be fed into the ocean and coastal information system so it is accessible to resource managers and the public.

Commenters identified a need for satellite imagery and updated maps, such as floodplain, habitat and hazard maps, for coastal areas. Funds are currently insufficient for a statewide effort. However, smaller projects may be considered based on the resource inventory needs assessment conducted above and if additional funds become available. In addition, the State will participate as much as possible in any federal remote sensing or mapping projects to help focus the projects on areas and issues important to Alaska. The State will work to ensure the information is generally available.

In order to coordinate across agency lines, the project will be located in the Division of Governmental Coordination.

Allocation: \$800,000 for personnel, equipment, contractual, travel and other associated costs.

The proposed coastal resource inventory project is consistent with the following authorized uses:

- activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act.
- addressing watershed protection or other coastal or marine conservation needs which cross jurisdictional boundaries.
- assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.

- projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

5. Cataloging Anadromous Fish Streams

The State of Alaska and local governments are committed to protecting fish habitat and water quality. Fully functioning fish habitat is necessary to maintain and rebuild the fish stocks that support a significant component of the state's economy as well as being critical for subsistence and recreational life-styles.

Alaska Statute 16.05.870 provides the Alaska Department of Fish and Game with the authority to protect anadromous fish habitat. However, that authority is limited to only those waters that have been formally listed in the Anadromous Waters Catalog. Listing occurs through a lengthy biological and public review process. ADF&G has very limited authority to protect anadromous habitat not listed in the Anadromous Waters Catalog.

Previous fish habitat assessments in Alaska demonstrated significant data gaps in the understanding of the distribution and condition of fish habitat. The current edition of Alaska's Anadromous Waters Catalog contains 15,209 water bodies for which there is documented evidence of anadromous fish use. However, field work indicates that the number of streams and lakes in Alaska actually used by anadromous fish may be three to five times higher than the currently reported tally.

CIAP funds will be used to assist ADF&G in continuing field efforts to inventory and list anadromous waters, focussing on areas at risk from future development activities. In addition, the field inventory will collect information on the habitat requirements of Alaska's resident and anadromous fish so as to better ensure that in-water, riparian, and watershed activities do not impact the ability of these habitats to produce healthy fish runs.

Since 1998, the ADF&G has been developing the technological tools necessary to allow the effective distribution of the collected field data. As part of this project, ADF&G will continue to seek systems to conveniently share collected information with federal, state, and local and tribal agencies, non-governmental organizations, and the public.

Allocation: \$1 million for personnel, equipment, contractual, travel and other associated costs.

The proposed cataloguing project is consistent with the following authorized uses:

- protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants.
- assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.

6. Regional coastal program planning for areas not covered by coastal district coastal management plans

Three regions of the state are not currently covered by local coastal management plans; Prince William Sound, Northern Southeast Alaska, and Southern Southeast Alaska. CIAP funds will be used to develop regional coastal management plans for these areas. Regional plans will provide site-specific policies to address coastal resource development in the three areas. The plans will be developed either by a locally elected Coastal Resource Service Area (CRSA) Board, or by the state Department of Community and Economic Development, depending on whether a CRSA is formed by the voters in that region.

Allocation: \$750,000 for personnel, equipment, contractual, travel and associated costs.

The proposed planning effort is consistent with the following authorized uses:

- activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act.
- addressing watershed protection or other coastal or marine conservation needs which cross jurisdictional boundaries.
- assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.
- implementation of Federally approved marine, coastal, or comprehensive conservation management plans.

7. Ocean, Coastal & Watershed Symposium and Report

The State will sponsor a symposium bringing together scientists, state and federal agencies, universities, stakeholders, and members of the public to assess the state of Alaska's oceans, coasts and watersheds. Results of the symposium will be incorporated into a State of the Oceans and Watersheds Report that will include policy recommendations for addressing ocean, coastal and watershed management. The agenda for the symposium is currently being developed.

Allocation: Up to \$150,000 for costs associated with the symposium and report, and a travel fund to ensure broad geographic and interest group participation.

The proposed symposium and report is consistent with the following authorized uses:

- addressing watershed protection or other coastal or marine conservation needs which cross jurisdictional boundaries.
- assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.
- projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

8. CIAP Plan Implementation and Administrative Costs

Due to time constraints, this plan is written in general terms. Additional staff time is needed to develop the details for each proposed activity, including working with coastal communities on local project details, and possibly to develop the memorandum of understanding with NOAA for disbursement of funds. In addition, once the plan is approved and the activities undertaken, there will be a need for administration of the funds, particularly the competitive grant funding. CIAP funds will be used for continuing costs of plan development and for administrative costs when the funds are disbursed.

Allocation: \$235,670 for the first year (July 1, 2001 to July 1, 2002) for plan development and fund administration. Future administrative costs will be funded as necessary from funded activities.

The proposed administrative allocation is consistent with the following authorized use:

- planning assistance and administrative costs of complying with the provisions of the coastal impact assistance legislation.

V. COORDINATION WITH OTHER FEDERAL RESOURCES AND PROGRAMS

The CIAP legislation requires that the state plan contain "measures for taking into account other relevant federal resources and programs" (§31(d)(2)(E)).

Federal agencies have had the opportunity to review and comment on this plan. The State will consider existing federal resources when implementing the activities proposed in this plan and, to the extent feasible, will coordinate with federal agencies conducting similar activities.

VI. COASTAL POLITICAL SUBDIVISIONS

A. Background

Under the CIAP legislation, thirty-five percent, or \$4,273,053, of the state's total allocation will be distributed to the state's coastal political subdivisions. A coastal political subdivision is defined as a "county, parish, or any equivalent subdivision" (§31(a)(1)). In Alaska, a coastal political subdivision equivalent is an organized borough or coastal resource service area (CRSA). There are eighteen eligible coastal subdivisions in Alaska. The allocation to each eligible community is based on the following formula:

- (A) 25% allocated based on the ratio of the coastal political subdivision's coastal population to the coastal population of all coastal political subdivision's in the state;
- (B) 25% allocated based on the ratio of the coastal political subdivision's coastline miles to the coastline miles of all coastal political subdivision's in the state;
- (C) 50% allocated based on the relative distance of the coastal political subdivision from any OCS leased tract used to calculate the state's allocation using ratios that are inversely proportional to the distance between the point in the coastal political subdivision closest to the geographic center of each leased tract or portion, as determined by the Secretary.

NOAA calculated the funding allocation for each borough and CRSA. Official allocations were provided to the state and communities on April 16, 2001.

The communities and allocations are:

Aleutians East Borough.....	\$134,279
Aleutians West CRSA.....	153,889
Municipality of Anchorage.....	603,869
Bering Straits CRSA.....	131,711
Bristol Bay Borough.....	19,694
Bristol Bay CRSA.....	45,410
Cenaliulriit CRSA.....	148,742
Haines Borough.....	32,623
City and Borough of Juneau.....	99,952
Kenai Peninsula Borough.....	208,665
Ketchikan Gateway Borough.....	75,515
Kodiak Island Borough.....	189,985
Lake and Peninsula Borough.....	70,270
Matanuska-Susitna Borough.....	131,216
North Slope Borough.....	1,939,680
Northwest Arctic Borough.....	102,530
City and Borough of Sitka.....	134,188
City and Borough of Yakutat.....	50,835

B. Coastal Political Subdivisions - Use of Local CIAP Funds

Under the CIAP legislation, the state plan must include "a contact for each political subdivision and description of how coastal political subdivisions will use amounts provided under the program" (§31(D)(2)(C)).

Coastal political subdivision uses proposed by each subdivision are summarized in Appendix A. Subdivision contact information is provided in Appendix B. Coastal political subdivision project back-up material, some of which includes specific budget detail, is provided in Attachment 2. Due to the short time frame for plan development, some coastal political subdivisions submitted a list of possible projects for CIAP funding that exceed their allocation, others provided only general descriptions of the type of projects they will undertake. Specific project selection by the local government will be made following submission of the Coastal Impact Assistance Plan and in conformance with the Memorandum of Understanding that may be developed between the State and NOAA.

The local governing body for each coastal political subdivision has submitted a resolution approving acceptance and use of CIAP funds. The resolutions are included in Attachment 2.

Appendix A - Coastal Political Subdivisions Proposed Uses for CIAP Funds

Under the CIAP legislation, the state plan must include "a contact for each political subdivision and description of how coastal political subdivisions will use amounts provided under the program" (§31(D)(2)(C)). Coastal political subdivision uses for CIAP funds proposed by each subdivision are summarized below.

Due to the short time frame for plan development, some coastal political subdivisions submitted a list of possible projects for CIAP funding that exceed their allocation, others provided only general descriptions of the type of projects they will undertake. Specific project selection by the local government will be made following submission of the Coastal Impact Assistance Plan.

1. **ALEUTIANS EAST BOROUGH (\$134,279)**

Contact: Robert Juettner, Borough Administrator

The Aleutians East Borough will use CIAP funds for the following projects:

a. Research Alaska Peninsula Salmon. This project consists of assessing, researching and monitoring salmon, a critical marine resource in the Gulf of Alaska and Bear Lake located on the northside of the Alaska Peninsula. In addition, it will produce a stock jeopardy model which will lead to greater conservation of the resource. Working with the Fisheries Research Institute of the University of Washington, and ADF&G, the Borough will:

- (1) determine the mechanism for the unusually high salmon productivity of the Bear Lake System;
- (2) establish a long term data set regarding the productivity and secondary productivity of the Bear Lake System;
- (3) continue stock identification of salmon in the June fishery and develop models of stock jeopardy and risk for future use.

Items 1 and 2 are a continuation of work begun in 1993 as a cooperative venture between the Aleutians East Borough and ADF&G. Timeline: October 1, 2001 – September 2003.

Estimated Cost: \$54,279

Applicable authorized use: assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.

b. Restoration of Coastal or Marine Habitat. The project will restore essential coastal habitat including wetlands and fish spawning areas by removing marine debris that adversely affects habitat. A 1996 ADF&G report recommended obstruction removal projects to enhance natural production of silver and red salmon in Wosnesenki, John Nelson and Red Cove lakes. Additional streams and lakes will be added by residents based on traditional knowledge. After the appropriate permits are secured from state and/or federal agencies, the streams will be monitored in the spring and fall. Obstructed

streams will be cleared by contracting with local vessels. Timeline: Summers 2002-2005.

Estimated Cost: \$50,000

Applicable authorized use: conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats.

c. Community Aerial Photography. Aerial photography is an extremely useful tool for the monitoring and mapping of coastal resources in and adjacent to communities and industrial sites. This project will develop a baseline library of aerial photography showing the development of infrastructure over time and impacts on coastal resources. The project will consist of flying all six Aleutian East Borough communities and if budget allows, Port Moller, the seasonal fish processing facility. Communities that want to have controlled aerial product for baseline mapping will be able to add local funding to upgrade the mapping product. Timeline: Summer 2002.

Estimated Cost: \$30,000

Applicable authorized use: assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.

2. ALEUTIANS WEST CRSA (\$153,889)

Contact: Karol Kolehmainen, AWCRSA Program Director

The Aleutians West CRSA will use CIAP funds as follows:

a. ACMP Implementation. CIAP funds will be used to continue work on revising the Aleutians West CRSA Coastal District Management Plan. This will allow the CRSA to continue to be a viable participant in the evaluation of projects within the CRSA.

Estimated Cost: \$10,000

Applicable authorized uses:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) implementation of Federally approved marine, coastal, or comprehensive conservation management plans.

b. Trust Fund. Funds will be placed in a trust account to be used for coastal management program administration, education and outreach in future years.

Estimated Cost: \$143,889

Applicable authorized uses:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) implementation of Federally approved marine, coastal, or comprehensive conservation management plans;
- (3) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

3. MUNICIPALITY OF ANCHORAGE (\$603,869)

Contact: Thede Tobish, Senior Planner

The Municipality of Anchorage developed a list of project proposals based on input from several municipal agencies. CIAP funds will be used to fund one or more of the following projects:

a. Coastal Resources Field Monitor. Funding for a field monitor position in the Planning Department. The Coastal Resources Field Monitor will assist planning staff in CIAP project planning and administration mainly by providing support services. It is envisioned that the field monitor will assist the Coastal District Coordinator in processing district consistency findings for new and ongoing actions, by reestablishing a consistent Anchorage field presence for monitoring of permit actions and by administering Anchorage's five General Permits. The field monitor will also liaison with contractors at wetland sites and Municipal permit enforcement staff, and provide administrative support essential to the maintenance of the Municipal wetland database, the GIS wetland coverages, and to our interactive environmental features and wetland permit website. As time permits, the monitor will liaison with other Municipal agencies in the planning and management of the other CIAP projects, especially the Chester Creek Watershed Plan and the Lower Campbell Creek Sedimentation Treatment Study

Estimated cost: \$30,000

Applicable authorized uses:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (3) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (4) implementation of Federally approved marine, coastal, or comprehensive conservation management plans.

b. Anchorage Park, Greenbelt and Recreational Facility Plan Revision. This project designates funding to enable the Municipality to enlist the services of an experienced park/open space planning firm to assist Municipal staff with the full revision of the parks plan. Key to this revision is the formal addition of an open space element to the plan.

Revision of the Anchorage Park Plan with an natural open space component will formalize its role in water resources planning and management, fish and wildlife habitat protection, as well for general recreation. This open space element will include an entire section dedicated to management guidelines, standards, acquisition priorities and procedures for natural open space sites in Anchorage. During the development and adoption of Anchorage's new Comprehensive Plan, and as required in Anchorage's federal NPDES Permit Conditions, open space has become one of the Municipality's most important land use elements. Open space will become increasingly essential in the management of storm water, flood control and water quality maintenance, as well as in protection and enhancement of remaining fish and wildlife habitats, deemed so important to the community. This open space and park plan revision has been identified as one of the most essential implementation actions for the new Anchorage Bowl Comprehensive Plan.

Estimated cost: \$150,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Management Act;
- (3) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (4) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (5) projects and activities for the conservation, protection or restoration of wetlands;
- (6) mitigating damage to fish, wildlife, or natural resources, including such activities authorized under Subtitle B.

c. Chester Creek Watershed Plan. This project is the establishment of Anchorage's first watershed plan for the Chester Creek system. Major tasks of the Chester Creek Watershed Plan include: watershed characterization, stream corridor use standards, identify scenarios for future land use actions, identify watershed and stream impacts resulting from each scenario, identify mitigation methods for identified impacts, and establish priorities and methods for watershed management. Funding will be used to gather, format, and analyze all known and new data on water quality and quantity, fish and wildlife population and habitat information. These data will be directly linked and integrated with land use, demographic data and water resources management regulations, practices and guidelines to create a single watershed planning element. Future land use, utility and transportation, habitat, restoration, water resources and floodplain management decisions will be based on and related to the entire watershed. This project will also serve as a template for the Municipality, and other Coastal Districts around the State, to establish future watershed plans.

Estimated cost: \$100,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (3) addressing watershed protection or other coastal or marine conservation needs which cross jurisdictional boundaries;
- (4) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.

d. Lower Campbell Creek Sedimentation Treatment Study. A two-part project to address water quality, fish habitat, and public access issues for lower Campbell Creek and Campbell Lake. This section of Campbell Creek and Campbell Lake provide critical overwintering habitat for resident fish and salmonids from throughout one of Anchorage's premier watersheds. The Municipal Engineer or a contractor will evaluate the sources, types, and impacts of historic and contemporary sedimentation on lower Campbell Creek and in Campbell Lake. This analysis will include an evaluation of impacts to fish populations, lifecycles and habitats, and impacts to lake-access by property owners, aircraft and utility maintenance staff. Once the sedimentation profile and impacts analysis is complete, alternative methods for resolution of identified problems will be developed and include cost estimates and preliminary engineered designs. It is estimated that the final product(s) will direct actions to address, treat and reduce chronic sedimentation and to enhance and restore fish habitats.

Estimate cost: \$200,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (3) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (4) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries projects and activities for the conservation, protection or restoration of wetlands;
- (5) mitigating damage to fish, wildlife, or natural resources, including such activities authorized under subtitle B of title IV of the Oil Pollution Act of 1990 (33 U.S.C. 1321(c),(d)).

e. Acquisition Fund for Anchorage Greenbelt and Natural Open Space Sites. This project will establish a Municipal budget unit dedicated to the acquisition of new greenbelt and natural open space and wetland areas. These sites will come from a list of significant sites around the Municipality that are currently considered integral to maintenance of water quality and flood control, fish and wildlife habitat, and natural buffers in existing and new developed areas. Once the Anchorage Parks Plan is revised (q.v. CIAP project

description), the acquisition list will be supplemented with additional sites identified from that Plan. To the extent feasible, this dedicated fund will be used to generate matching funds from other sources, or as leverage to create new matching programs. For this application the Municipality cannot specify which sites will be acquired with these funds. But the fund will be restricted to purchase of parcels that are identified as vital to water quality and quantity issues, to fish and wildlife habitat protection, to existing and new greenbelt corridors and to natural buffers from development, all in conjunction with the CIAP authorized list of uses.

Estimated cost: \$123,689

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (3) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries projects and activities for the conservation, protection or restoration of wetlands;
- (4) projects and activities for the conservation, protection or restoration of wetlands;
- (5) mitigating damage to fish, wildlife, or natural resources, including such activities authorized under subtitle B of title IV of the Oil Pollution Act of 1990 (33 U.S.C. 1321(c),(d)).

4. BERING STRAITS CRSA (\$131,711)

Contact: Chuck Degnan, Director, Bering Straits Coastal Management Program

ACMP Implementation. The Bering Straits intends to use CIAP funds to travel to its widespread communities to conduct its business related to implementing the Bering Straits Coastal Management Program, address a proposed minor amendment to the BSCMP and related issues. Other issues CIAP funds may address are: impacts on subsistence, impacts on habitat; impacts on subsistence resources; environmental effects; socio-economic effects; effects of noise; habitat alteration; coastal erosion; fisheries disasters and other issues the BSCRSA board may desire to address.

Estimated Cost: \$131,711

Applicable authorized uses:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) implementation of Federally approved marine, coastal, or comprehensive conservation management plans.

5. BRISTOL BAY BOROUGH (\$19,694)

Contact: Arne Erickson, Community Development Director

The Bristol Bay Borough will use CIAP funds for the following project:

Aerial Photography and Research. CIAP funding will be used to study existing aerial photography of the Borough's coastline; to purchase new aerial photography; produce new physical survey data in areas of concern; and produce the beginnings of a written research report (which would be on-going). Funds may also be utilized for travel, mapping, and personnel requirements. The areas of study will be the river banks of the Naknek River in the locations of the villages of Naknek and South Naknek; and the banks of the Kvichak Bay directly to the north of Pederson Point (a fish processing facility). The project will develop a guidance document which identifies areas of immediate and future erosion concern, and the historical patterns of bank erosion. In addition, it will provide the basis for future land use development plans and controls within the coastal zone and identify upland areas where upland movement of existing physical development should be considered immediately. Finally, it will lead to the development of a plan directed at methods of successful erosion control and restoration and protection of existing natural coastline protective features.

Estimated Cost: \$19,694

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) protection and restoration of natural coastline protective features, including control of coastal erosion.

6. BRISTOL BAY CRSA (\$45,410)

Contact: Andrew DeValpine, Program Director

The Bristol Bay CRSA will put CIAP funds into a trust fund dedicated to projects consistent with the authorized uses in the CIAP legislation, including one or more of the following potential projects:

- a. Moose Survey. The CRSA will provide funds to ADF&G for a moose survey in the eastern portion of Area 17B (possibly in concert with the Lake and Peninsula Borough). Moose in this area are an important food source for local residents and provide considerable hunting opportunity for numerous non-local hunters. The area is seeing a rapid increase in use with no assessment of the affects of that use. No reliable data exists upon which to base management decisions as use increases.

Estimated Cost: \$15,000

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;

- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management;
- (3) mitigating damage to fish, wildlife, or natural resources, including such activities authorized under subtitle B of title IV of the Oil Pollution Act of 1990 (33 U.S.C. 1321(c),(d)).

b. Radio-collaring Caribou. The CRSA will provide CIAP funds to ADF&G for radio collaring caribou. The Mulchatna caribou herd numbers about 175,000 animals and ranges over 40,000 square miles, crossing jurisdictional boundaries. The herd is important economically and to both local and non-local people and is essential for subsistence purposes.

Estimated Cost: 15,000

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management;
- (3) mitigating damage to fish, wildlife, or natural resources, including such activities authorized under subtitle B of title IV of the Oil Pollution Act of 1990 (33 U.S.C. 1321(c),(d)).

c. Salmon Smolt Research. The CRSA will provide CIAP funds to the Bristol Bay Economic Development Corporation, Bristol Bay Science and Research Institute to research factors affecting nearshore survival and production of juvenile sockeye salmon from Kvichak Bay. Phase I: important habitat, migration routes and food resources. Possibly will be done in concert with Lake and Peninsula Borough and Bristol Bay Borough.

Estimated Cost: \$15,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (3) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

d. Student Mentoring Project. CIAP funds will be provided to the Bristol Bay Economic Development Corporation for training high school students in the scientific method. A mentor would travel to BBEDC schools and present the idea of conducting an ocean, coastal or watershed related original study to the students. If the students are interested, the mentor would help them design a study, find resources, get a local sponsor, gather any equipment needed and then keep in contact with the students though out the study. The year would conclude with a trip to Fairbanks to participate in the Alaska High School Science Symposium.

Estimated Cost: none specified.

Applicable authorized use: projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

e. Habitat Conservation. Will provide a grant to the Nushagak/Mulchatna-Wood/Tikchik Land Trust for:

- (1) A biodiversity assessment for lands within the focus region of the land trust. The report would be used by the land trust to identify sensitive habitat and establish priorities for land and conservation easement acquisition. The assessment would focus on land along the Nushagak River and within the Wood-Tikchik State Park. A minimum of \$10,000 would be requested which could be leveraged with money from the Nature Conservancy. The Nature Conservancy has identified the Wood-Tikchiks as one of its top ten eco-regions for protection.
- (2) Establish a trust fund for acquisitions. The land trust could use any or all of the grant money to establish a fund to be used for the purchase of land conservation easements. The Land Trust needs to have money available to pay earnest money to sellers of Native Allotments. Money is also needed to provide stewardship funds for acquisitions. The land trust has a policy of setting aside funds to monitor lands.

Estimated Cost: \$20,000 – 45,000

Applicable authorized use: conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats.

f. Subsistence Survey. CIAP funds to ADF&G to gather baseline resource harvest and use data and demographic and other economic data for Dillingham. The last comprehensive survey was in 1985. ADF&G will collaborate with the Bristol Bay Native Association and with Curyung Tribal Council. The data would be presented in a Division of Subsistence Technical Paper. Timeline: Fall of 2002 or Spring of 2003.

Estimated Cost: \$20,000

Applicable authorized use: assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.

g. Erosion Control. CIAP funds to the City of Dillingham for erosion control at the Wood River bulkhead. The Wood River bulkhead is threatened with destruction by increased wave action associated with the Wood River fishery.

Estimated Cost: \$20,000 – 40,000

Applicable authorized use: protection and restoration of natural coastline protective features, including control of coastal erosion.

7. CENALIULRIIT CRSA (\$148,742)

Contact: John Oscar, Program Director

The Cenaliulriit CRSA will put the CIAP funds into a trust fund. Funds will be used for the following purposes:

- a. activities which support and are consistent with the Coastal Zone Management Act;
- b. conservation, restoration, and enhancement or protection of coastal or marine habitats, wetlands, estuaries, coastal fishery resources;
- c. protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act;
- d. assessment, research, mapping and monitoring of coastal or marine resources and habitats;
- e. assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community assistance programs that encourage participation in sustainable fisheries.

Allocation: **\$148,742**

Applicable authorized uses:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (3) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (4) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (5) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

8. HAINES BOROUGH (\$32,623)

Contact: Vince Hansen, City Administrator, Coastal Program Coordinator

Haines Borough will use CIAP funds for one or more of the following potential projects:

- a. Net Float Repairs and Provision of Services to Transient Floats. This project would involve repairing the net float (which is unusable due to its current condition) and extending water and power to the transient float at the Haines small boat harbor. This community assistance fisheries project would encourage participation in the sustainable

fisheries and address impacts from growth and demand. Provision of water and power would allow vessels to better for participation in the fishery.

Estimated Cost: \$40,000

Applicable authorized use: assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

b. Habitat Restoration and Protection. One Mile Creek, a productive but endangered fish stream, has been identified as having high fecal coliform counts. This appears in large part to be due to failed septic systems in the area of Small Tracts Road in Haines, a highly populated and rapidly growing area. The pollution will be confirmed with further testing and assistance from the Department of Environmental Conservation. CIAP funds will be used for completion of a design for extended public water and sewer in the area.

Estimated Cost: \$85,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- 2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants.

c. Habitat Restoration and Protection. The mouth of One-Mile Creek and Mud Bay Road Beaches is in the transition zone between the mouth of the Chilkat River and Chilkat Inlet. The coastal area includes sensitive habitat for birds, fish and other wildlife, but is experiencing erosion and habitat loss. The area has been identified as a priority area in the nearly completed local government Public Use & Access Plan for priority areas. Once completed, the plan may recommend facilities improvements to improve access while reducing habitat damage. Designated pull-outs, trails, overlooks, and other improvements along this section state highway may be recommended.

Estimated Cost: \$150,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants.

d. Restoration and Education. Sawmill Creek Restoration, Access and Education Project (SCRAEP). The Public Use & Access Plan identified the Sawmill Creek as a priority area. The creek is an anadromous fish stream which winds through various areas in the community, including significant wetlands adjacent to the Chilkat River. One part of the

project would involve completing the legal process to obtain accreted lands near the mouth of the creek. Once title is obtained, specific improvements could begin, including designated trails and elevated walkways to provide access and protect the wetland habitat, placement of educational information, posting of areas for appropriate uses, and related work. The project could be completed in phases.

The second project is the acquisition of critical habitat along 6th Avenue in Haines. Projects funds are sought to design and complete construction/restoration of a portion of inner city salmon and trout stream in proximity to local schools. Funds would be used for procuring an easement across the property; engineering and design costs; construction costs to restore the stream, allowing access for educational purposes; a new culvert; and a fish ladder. The local government has been notified it will receive funds to initiate the project from the National Fish and Wildlife Foundation.

Estimated Cost: first project - \$75,000 to 100,000 (Phase I Title and Design - \$25,000); second project - \$270,000.

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (3) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

9. CITY AND BOROUGH OF JUNEAU (\$99,952)

Contact: Sylvia Kreeel, Planner

The City and Borough of Juneau developed a list of project proposals based on input from city and borough staff, the Mendenhall Watershed Partnership, the CBJ Wetlands Review Board, Trailmix and the Alaska Department of Fish and Game. CIAP funds will be used to fund one or more of the following potential projects:

a. Education Projects

- (1) Education projects including, but not limited to:
 - public workshops on the importance of techniques for erosion control and stormwater management;
 - educational signs along the Mendenhall River trail explaining the natural features of the area;
 - a coordinated effort to educate property owners who have streams running through their property on the regulations regarding streamside setbacks, the importance of maintaining the riparian buffer, and bank stabilization.

- a coordinated effort to educate property owners on regulations regarding wetlands, and the importance of maintaining wetlands.

Estimated Cost: \$5,000 to 100,000 depending on the number of projects

(2) Mendenhall Watershed Historical Documentary. A project initiated by the Mendenhall Watershed Partnership, a volunteer citizen's group that brings together home, land and business owners, builders, teachers and scientists to learn more about the Mendenhall watershed to improve its future. The goal of the project is to produce a modest documentary video about the history of the Mendenhall watershed including ways that people are working to improve the current situation.

Estimated Cost: \$5,000 to 10,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (3) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

b. Wetland Preservation, Restoration or Creation

(1) Police Station Pond, Wetland Creation. The objective of this project is to enhance the habitat area located behind the new Juneau Police Station for the benefit of waterfowl, passerine birds and the public. The project is broken into three phases, the first phase is already funded.

Estimated Cost: \$55,000 for Phase 2; \$30,000 for Phase 3.

(2) Wetlands Mitigation Bank. CBJ is developing a wetlands mitigation bank as called for in the Juneau Wetlands Management Plan, adopted in 1992. CBJ has been working on the bank using EPA grant funds. Additional funds could be used toward Phase 3 of the project, which includes finalizing the banking instrument and amending the Juneau Coastal and Wetlands Management Plans. Additionally, funds could be used to help finance the purchase of land or restoration projects for which mitigation credits could then be sold.

Estimated Cost: \$10,000 to 100,000

(3) Purchase of Properties along Duck Creek. There are several small, undeveloped properties through which Duck Creek runs. Acquisition of these sites would better ensure the protection of the riparian areas adjacent to the creek.

Estimated Cost: \$20,000 to 100,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) projects and activities for the conservation, protection or restoration of wetlands.

c. Research and Education Projects Involving Water Quality

(1) Stormwater Volunteer Projects. This project is initiated by the Mendenhall Watershed Partnership. The goal of the project is to train and assist volunteers to take a leadership role in stormwater management planning through the following actions:

- (a) assist a JDHS or UAS student in designing a water catchments basin monitoring project;
- (b) plot important watershed features with GPS equipment for CBJ's LIDAR map, with volunteer assistance;
- (c) follow up with CBJ and DNR road maintenance crews regarding snow removal practices to keep sediment from streams.

Estimated Cost: \$5,000 for (a); \$2,000 for (b); and \$500 for (c)

(2) Citizen-based Monitoring: Montana Creek Pilot Project. This project is initiated by the Mendenhall Watershed Partnership. Montana Creek is the Partnership's top priority for protection, due to its pristine qualities and healthy salmon populations. Increasing pressures threaten water quality in the Montana Creek corridor. The Partnership will encourage proactive measures for future discussions on development and zoning near Montana Creek:

- (a) Team with UAS hydrology program and the USGS in collection of baseline data of Montana Creek;
- (b) Participate in the UAA ENRI Program citizen water quality monitoring training that incorporates biological data collection procedures.

Estimated Cost: \$11,000 for (a); \$1,000 for (b)

(3) Airport Oil/water Separator. This project would install a new oil/water separator at the existing airport facility. The goal is to use a newer technologically sophisticated system that is now being installed under EPA Phase I Stormwater rules. The installation would serve as a demonstration project for other facilities. Funds would also be necessary to cover training of personnel.

Estimated Cost: \$25,000

(4) Duck Creek Iron Floc Study. This proposal is one segment of a broader community-based effort to develop a bioremediation method of restoring water quality and anadromous fish habitat in reaches of Duck Creek impaired by iron oxyhydroxides (floc). The focus of the project is the development of alternative methods for controlling dissolved iron precipitation, which is common to many Alaska waters. The results of this work, in conjunction with other segments of the project, will be distributed locally and regionally through presentations and will be published in peer-reviewed journals or presented at professional meetings.

Estimated Cost: \$25,000 to 50,000

Applicable authorized uses:

- (1) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

d. Control of Invasive Species. The North Lake of Twin Lakes, formed during construction of Egan Drive, has not succeeded as a fresh water lake. An invasive plant species (water-milfoil, *Myriophyllum*) is choking the lake bottom, rendering it useless as fish habitat. This project would restore the lake to its intertidal state to create a new salt marsh. The project might also include an elevated walkway to the two “islands” with interpretive signage, and a blind for viewing birds.

Estimated cost: \$15,000 to 25,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) identification, prevention and control of invasive exotic and harmful non-indigenous species.

e. Mapping and Planning - development or update of maps and plans to help direct development and preservation of areas within the City and Borough of Juneau.

(1) Hyperpectral, color infrared or natural color aerial photography for wetland determination. Funding is available for CBJ to use a LIDAR system to provide accurate topography of the developed and developable areas of the borough. With additional funds, the same area could be photographed with hyperspectral, natural color or infrared film. These images would be used to map wetland types and develop an accurate wetland map for the wetland areas in the borough.

Estimated cost: \$25,000 to 100,000

(2) Update of wetland maps and wetland management plans. This project would use the aerial photography described above to update the Juneau Wetlands Management Plan originally adopted in 1992.

Estimated cost: \$20,000 to 70,000

(3) Planning for Shrine to Eagle Beach. Initiate an interagency comprehensive planning strategy for the coastal area from the Shrine of Saint Therese to Eagle Beach, including all areas between Glacier Highway and the coast. This would be a comprehensive, community-based and interagency land use plan, which would focus on the preservation of the natural area, but also on the recreational opportunities of the area.

Estimated cost: \$15,000 to 60,000

(4) Assessment of Off Road Vehicle (ORV) impacts on fish and wetland habitat, in coordination with ADF&G. This project would assess ORV damage to wetlands and fish habitat on state and private land in the borough. Work would include assessment and mapping of damage, planning and outreach. Information could be incorporated into the Forest Service community ORV trail planning process, now underway.

Estimated cost: \$3,000 to 10,000

(5) Lemon Creek stream channel conceptual design, in coordination with ADF&G. Create a conceptual design for the reach of Lemon Creek from gorge to tidewater. While not a detailed restoration plan, the conceptual design would establish a coherent strategy for bank stabilization in a watershed with intense development pressures and serious environmental problems.

Estimated cost: \$10,000 to 30,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (3) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

10. KENAI PENINSULA BOROUGH (\$208,666)

Contact: John Czarnecki, Resource Planner

The Kenai Peninsula Borough developed a list of project proposals based on input from representatives from the Borough, the State, Federal agencies and non-profit organizations. Proposed projects were evaluated based on specific criteria. The nine projects that scored highest are presented here plus two projects that were submitted during the public input stage of the process. CIAP funds will be used to fund one or more of the following potential projects:

a. 50/50 Cost Sharing for Kenai River Watershed Bank Restoration & Stabilization.

This project provides matching funds for bank restoration and protection projects on anadromous streams. It expands the ADF&G 50/50 program for Kenai River Watershed anadromous streams to over 20 additional streams in the KPB. Individual projects must protect, restore or promote good fish habitat on private riverfront properties. Upon approval, KPB will pay up to 50% (or \$1,000, whichever is less) of the total fish habitat improvement project costs. Examples of individual projects that would be funded under this program include: bank stabilization techniques (root-wads, spruce tree revetments, brush layering, live siltation, coir logs, etc.); construction of light-penetrating walkways, protection of existing bank vegetation, revegetation of eroded bands, and the removal of structures detrimental to salmon habitat such as jetties and bulkheads.

Estimated cost: \$40,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

b. Kenai River Center Bank Restoration Project. This project aims to restore a severely eroded bank along the Kenai River at the site of the Kenai River Center. The project would involve a variety of tasks, including: installation of elevated light penetrating walkways, ramps and stairs for river access, bio-engineered bank stabilization measures, and interpretive displays describing the techniques and applications of bank restoration. This project will be funded by multiple grants with multiple resource agencies and non-profit organizations collaborating.

Estimated cost: \$50,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (3) protection and restoration of natural coastline protective features, including control of coastal erosion;
- (4) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

c. Conservation Easement Landowner Assistance/Stewardship Fee Fund. The Kachemak Heritage Land Trust (KHLT) works with willing landowners to preserve, for public benefit, land with significant natural, recreational or cultural values across the Kenai Peninsula. The tool most often used is a conservation easement. Every easement is required to have stewardship funds set aside to monitor and enforce the easement in

perpetuity. KHLT has an existing fund to assist financially limited landowners meet the stewardship contribution requirement. Additional funds would extend KHLT's ability to assist landowners place easements on their land. The proposed funds would be applied to conservation easements that fall in the Coastal Zone Management Area. A focus would be the lower reaches of anadromous streams.

Estimated cost: \$10,000

Applicable authorized use: conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats.

d. Completion of Updated FEMA Flood Insurance Rate Map for Port Graham Floodplain Panel. This project will provide corrected elevations and flood hazard zones to insure correct development standards for the entire coastal community of Port Graham. The project completes an assessment and research program by mapping floodplains in a coastal environment, and allows for the Port Graham community to better plan and manage coastal resources.

Estimated cost: \$3,400

Applicable authorized use: assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.

e. City of Kenai - Dipnet Fisheries Habitat Protection Assistance. Funds for the City Of Kenai to support enforcement of an ordinance designed to mitigate habitat damage to the South Side of the Kenai River during the personal use dipnet fishery at the mouth of the Kenai River. Funds will be used to provide a police presence during the month of July on the south side of the river and for signage and installation of orange net fencing around sensitive dune vegetation. Also will fund an ATV for the Kenai River Center to gain summer access to some of the headwater areas of streams newly added to the KPB habitat protection zone. The vehicle would be loaned to the City of Kenai during the dipnet fishery to provide the police with access to the 4-wheel drive only beaches on the south side of the Kenai River.

Estimated cost: \$16,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) addressing coastal conservation needs associated with seasonal or otherwise transient fluctuations in coastal populations;
- (3) protection and restoration of natural coastline protective features, including control of coastal erosion;
- (4) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

f. Property Owners Guide to Living on Anadromous Streams. The property owners guide would build on an existing effort in the Anchor Point watershed. The guide will communicate to property owners the values and responsibilities that come with owning land on streams, lakes, wetlands and coastal areas. In addition to informational chapters, a unique chapter would be designed for each targeted watershed that identifies the special features and issues of that area. The guide would be funded by multiple grants with multiple resource agencies and non-profits collaborating.

Estimated cost: \$20,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management;
- (3) mitigating damage to fish, wildlife, or natural resources, including such activities authorized under subtitle B of title IV of the Oil Pollution Act of 1990 (33 U.S.C. 1321(c),(d)).

g. Hydrocarbon Screening. The Kenai River Center's permitting authority was recently extended to include an additional 24 anadromous streams. The authority includes permitting for fuel storage tanks and logging to address a concern for the potential of fuel and oil (hydrocarbons) impacts on the newly listed water bodies. However, little water quality data has been collected on many of the streams, and no hydrocarbon data has ever been collected. This project would fund expansion of a screening technique that would allow for up to 20 additional sites to be monitored and analyzed over the course of a year. With this information, the Kenai River Center and Coastal Zone Management staff would be better informed on where to concentrate their limited resources.

Estimated cost: \$12,000

Applicable authorized uses:

- (1) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (2) addressing watershed protection or other coastal or marine conservation needs which cross jurisdictional boundaries;
- (3) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (4) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

h. Landowner Willow Restoration Guide. The purpose of this project is to develop a user-friendly guide for the identification of Alaska willows as none is currently available. The proposed guidebook will provide landowners and landscape contractors in Southcentral Alaska with information necessary to identify and select the proper species of willow for habitat restoration or other intended purposes. Work is currently underway

through funding from the USFWS. \$25,000 additional funding is needed to complete a print-ready copy. The proposed funding will contribute toward this effort.

Estimated cost: \$2,500

Applicable authorized use:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection and restoration of natural coastline protective features, including control of coastal erosion;
- (3) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

i. Tsalteshi Trail Improvements. This project will include the expansion of the existing Tsalteshi Trail system to include the development of a one-mile trail from and eventually across K-Beach Road in the City of Soldotna. The trail system, in conjunction with City and Federal trail systems, will provide an expanded network of trails near the wetland complex associated with the Kenai River and its tributaries. With the growing use of the riparian area near the Kenai River, the trails system will provide controlled access to ensure that sensitive areas are not negatively impacted.

Estimated cost: \$10,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

j. Youth Restoration Corp; Quartz Creek Project. The Quartz Creek project in Cooper Landing will create spawning and rearing habitat for salmonids from an expired gravel pit used to reconstruct the Sterling Highway. Youth will work on habitat improvements to almost 9 acres of habitat surrounding the lake/pond that was created from the gravel pit. This work will complement previous work completed by the Department of Transportation.

Estimated cost: 10,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

k. Developing a FEMA Flood Insurance Rate Map for the North Fork of the Anchor River. The North Fork of the Anchor River is currently unmapped for floodplain management. With CIAP funds, the first stage of the mapping would be completed. This project would include the entire contour mapping portion of the study. Completion of the project would be the first step toward ensuring proper development for the local community and for the floodplain of the Anchor River. It would help plan and manage the impacts of growth and development for the area. Watershed and wetlands protection would also be achieved.

Estimated cost: \$140,000

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

11. KETCHIKAN GATEWAY BOROUGH (\$75,515)

Contact: John Hill, Coastal District Coordinator

The Ketchikan Gateway Borough may use CIAP funds for one or more of the following projects:

a. Development of the Borough's Geographic Information System. The project includes the development and execution of a Borough-wide geographic information system. Although the Borough presently has some of the necessary system components, the proposed funds will be used to bring the system on-line. The system, once complete, will allow the Borough to administer a variety of planning data related to coastal resource management including land use information, permit tracking, code enforcement and recently purchased digital orthographic photos. The Borough's program has several components that include data collection and base mapping, additional hardware and software, staff training, and temporary personnel for data input.

Estimated cost: \$75,515

Applicable authorized uses:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (3) implementation of Federally approved marine, coastal, or comprehensive conservation management plans.

12. KODIAK ISLAND BOROUGH (\$189,985)

Contact: Robert Scholze, Associated Planner/Coastal Coordinator, Community Development Department

The Kodiak Island Borough will use CIAP funds for one or more of the following projects:

a. Revision of the Kodiak Island Borough Coastal Management Program. Revision of the KIBCMP will provide more effective coastal management and long range planning in the Kodiak Island Borough by updating and expanding resource inventory and analysis information. An element of the program update will plan for impacts of exploration and development activities that might result from the renewed Outer Continental Shelf oil and gas leasing program for 2002-2007 and impacts similar to those suffered in 1989 as a result of the *Exxon Valdez* oil spill.

Applicable authorized use: activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act.

b. Marine Debris Clean-up. Clean-up and removal of abandoned vessels and marine debris, especially non-biodegradable material such as Styrofoam utilized in floats and clean-up of metal on beaches at old landfill sites.

Applicable authorized use: conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats.

c. Habitat Restoration. The 20 year operation of gravel pits on upper Russian Creek in Womens Bay have had the documented impact of discoloring the anadromous salmon stream with sediment and diverting stream waters subsurface through borrow pit ponds so that, for a period of time, a section of the creek was dry. Funding for engineering and hydrology studies to establish causes and mitigate impacts in the interest of restoring habitat and protecting the creek at historic flow levels.

Applicable authorized use: protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants.

d. Assessment, Mapping and Monitoring. This project might include the establishment of a long-term, real-time, moored oceanographic monitoring station (OSKAR) in the near shore to measure ocean temperature, conductivity, and fluorescence at 10 meter intervals to study changes in abundance of sea lions, fish, crabs, plankton, and other aspects of the Gulf of Alaska ecosystem.

Applicable authorized use: assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.

e. Coastal Erosion Control. Coastal erosion in Karluk has been a critical problem for years, not only threatening public safety but also washing away historical artifacts. Funds may be used for an engineering study to assess causes and implement effective responses to protect the shoreline.

Applicable authorized use: protection and restoration of natural coastline protective features, including control of coastal erosion.

f. Managing Impacts of Growth and Development. Funding may be used to assist local communities in managing impacts of growth and development on coastal and marine habitats through the following projects:

- (1) waste oil recovery and used battery disposal stations in boat harbors and education programs addressing safe collection and recycle procedures;
- (2) education programs for prevention of the cumulative damage from nonpoint source pollution originating from expanding commercial and recreational boat harbor use, agricultural use, and timber harvesting;
- (3) programs promoting fisheries enhancement and mariculture research to achieve sustainable fisheries;
- (4) continued studies of the Kodiak Urban Lakes and Watershed Project to enhance lakes and streams and protect watersheds. Replacement and ongoing maintenance of the tide gate at Mission Lake is a principal element.

Applicable authorized use: assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

g. Education Programs.

- (1) Education programs addressing watershed protection and issues surrounding sanitation, solid waste and landfill management practices in Kodiak's six villages will sustain basic health and welfare and help prevent contamination of groundwater recharge systems and damage to habitat. Local networking can partially accomplish this. Funding may be provided for travel, training, and equipment replacement and maintenance.
- (2) A public education program initiated by the Kodiak Maritime Museum consisting of interpretative signs along the Kodiak waterfront documenting the *Exxon Valdez* oil spill seeks to deepen the understanding of visitors and residents of the nature and impacts of man-made disasters. Additional funding will facilitate expansion of this waterfront enhancement project demonstrating Kodiak's maritime culture, seafaring legacy, and working waterfront. This would be a creative, living vehicle for informing and educating the public about a place and its people.

Applicable authorized use: projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

h. Aerial Photography and Mapping. Aerial photography and digitized mapping for identification, conservation and protection of wetlands and floodplains is vitally needed. Mapped wetland inventories and soil surveys will provide a valuable planning tool to identify preferred development and transportation corridors and select sites for public facilities. In the villages, new projects such as roads, fuel farms, landfills and utilities require more detailed analysis, which can reduce project costs as well as identify and protect resources. In conjunction with this, funding for educational outreach projects can inform the public about the values of riparian habitats, tidal marshes and wetlands, and

illustrate low-impact methods of access, use or development. This information can also provide essential information for a lower impact system of off-road vehicle (ORV) trails, a major threat to fragile wetlands. Comprehensive plan revisions and updates are underway or contemplated for Womens Bay and Anton Larsen Bay, both of which would benefit greatly from current air photography.

Applicable authorized use: projects and activities for the conservation, protection or restoration of wetlands.

i. Infrastructure. Boat ramps providing access to marine waters at strategic locations are on-shore infrastructure projects that serve a public need. Timely completion of the boat ramp/parking area expansion designed for Anton Larsen Bay will be ensured by supplemental funding, and, with more traffic and greater use of existing boat ramps that can be anticipated due to increased Outer Continental Shelf activities, new boat ramps will be needed at Pasagshak and in Monashka Bay near Fort Abercrombie State Park.

Applicable authorized use: mitigating impacts of Outer Continental Shelf activities through funding of (A) onshore infrastructure projects and (B) other public service needs intended to mitigate the environmental effects of Outer Continental Shelf activities: provided, that funds made available under this paragraph shall not exceed 23 percent of the funds provided under the coastal impact assistance legislation.

13. LAKE AND PENINSULA BOROUGH (\$70,270)

Contact: Marv Smith, Community Development Coordinator

The Lake and Peninsula Borough will likely place CIAP funds in a trust fund dedicated to any of the uses authorized under the CIAP legislation. There is the possibility funding will continue in future years and a trust fund could build until funds were adequate to accomplish several of the projects listed by the borough. The borough will put CIAP funds into a trust fund dedicated to projects consistent with the authorized uses in the CIAP legislation, including one or more of the following potential projects:

a. Update of Community Profile Maps. Hire a contractor to update the Community Profile maps to include current information on each village. The mapping would be made accessible to the public through the Department of Community and Economic Development (DCED) website or the Borough website.

Estimated cost: \$18,000 per village.

Applicable authorized use:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas.

b. Watershed Management. Continue the watershed management program and establish a watershed management program for the entire borough.

Applicable authorized use: addressing watershed protection or other coastal or marine conservation needs which cross jurisdictional boundaries.

c. Marine Debris Removal. Use all or a portion of the CIAP funds to remove the Wind-Ray Barge located in Ugashik that is an environmental hazard and has been leaking bunker oil into the Ugashik River. The barge is very corroded, not floatable and was abandoned in the 1950's. The responsible party is deceased and there is no one to charge the cost to remove it from the Ugashik river tidewaters.

Applicable authorized use: conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats.

d. The Borough may fund projects under the following CIAP authorized uses:

- (1) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (2) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (3) addressing coastal conservation needs associated with seasonal or otherwise transient fluctuations in coastal populations.

14. MATANUSKA-SUSITNA BOROUGH (\$131,216)

Contact: Ken Hudson, Chief of Code Compliance, Coastal Management Coordinator

The Matanuska-Susitna Borough plans to put CIAP funds into a trust fund. The funds will be used to fund one or more of the following potential projects:

a. Matanuska-Susitna Borough Coastal Management Plan Revision. The current borough coastal management plan was adopted in 1984. This project will update the coastal plan with current information about borough development trends, coastal resources and impacts to those resources. Standards, policies, and implementation tools to guide development and use will be revised.

Estimated cost: \$140,000

Applicable authorized use:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) implementation of Federally approved marine, coastal, or comprehensive conservation management plans.

b. Resource Information. This project will make information about coastal resources easier to access and use. Previously collected information would be useful for additional purposes over many years, if people can find and use it quickly. The borough will contract services to obtain computer hardware and software necessary to locate, and convert, existing "hard copy" information about the borough coastal resources into digital format. The information would be an online (internet) database about the borough's coastal zone. Information proposed for conversion includes, but is not limited to; maps, photographs, aerial photography, satellite imagery, reports, studies, surveys, plats, permits, case files, articles and other sources of local knowledge.

Estimated cost: \$140,000

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

c. Satellite Imagery. The borough will contract services to obtain and provide an on-line database of new satellite imagery of the borough at five-meter resolution, and at one-meter resolution for areas of high coastal resource value, and where significant impacts and hazards to coastal resources exist or are likely to increase. Depending upon available funds, the borough will obtain specialized satellite imagery useful for analysis of topography, vegetation, erosion, flooding, geo-technical hazards, etc.

Estimated cost: \$140,000

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

15. NORTH SLOPE BOROUGH (\$1,939,680)

Contact: Jeanne Gortz, Mayor's Office Contract Administrator

The North Slope Borough will utilize the entire CIAP funding to fund recurring projects in the NSB Department of Wildlife Management (DWM) regarding diminishment of the borough's wildlife resources brought on by such things as oil and gas industry development. These funds will allow the Borough to begin new research as well as to supplement existing research with the department. The use of these funds will allow the North Slope Borough to continue its ongoing partnerships studying the coastal impacts of modern developments and potential developments in ANWR, NPRA, the OCS and the coastal plain. It will leverage the funds in projects involving state and federal agencies and local, state, federal and international organizations involved in assessing arctic coastal impacts.

The North Slope Borough will use its CIAP allocation for projects managed by the North Slope Borough Department of Wildlife Management, including:

a. Wildlife Harvest Monitoring. This project involves quantifying the subsistence harvest takes of wildlife resources by the subsistence users on the North Slope. The project will provide documentation to help identify areas that are important to subsistence activities and identify local concerns that may be causing disruption to subsistence activities. The information could be used to help develop stipulations to minimize adverse impacts to subsistence activities caused by development.

Applicable authorized use: mitigating damage to fish, wildlife, or natural resources, including such activities authorized under subtitle B of title IV of the Oil Pollution Act of 1990 (33 U.S.C. 1321(c),(d)).

b. Bowhead Whale Census. The bowhead whale census involves identifying and documenting the number of migrating bowhead whales near Point Barrow to support several international research projects. This activity works directly with the Alaska Eskimo Whaling Commission and the National Marine Fisheries Services. DWM also has an MOA to partner with Ilisagvik College to provide technical training for college students to participate in the census. The DWM is having a bowhead whale census this spring. If ice conditions and weather prohibit an accurate population count, the DWM will require funding for another population count attempt. Also needed is a bowhead satellite telemetry in the spring to determine movements east across the Beaufort Sea, and in the fall to monitor movements west and south across the Chukchi and Bering Seas. There is also a census of the Bering Sea bowhead whale population.

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (3) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

c. Beluga Research. This is a long-term, on-going, research project involving examinations of harvested beluga whales as assessments of the status and health of the population and for basic studies (morphology, serology, microbiology). In collaboration with researchers at several other institutions, these ongoing basic studies were started in 1978 and, among other uses, allow investigators to better predict the potential impact of a future oil spill (Albert, 1988). Also needed is a food habits study of belugas in western Alaska. Belugas may be impacting marine resources such as salmon and thus it is important to understand what belugas are feeding on, and where and when they are feeding.

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (3) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

d. Wildlife and Fish Surveys. DWM is conducting aerial surveys of caribou and waterfowl. Also, DWM is conducting fish studies of lakes and rivers to identify species present, spawning areas and over-wintering areas. Fish studies will also focus on the biology of three key subsistence fish in the impacted areas of the eastern NPRA. These studies will include contaminants assessments, fish dispersal (via radio tracking), distribution, fish condition, traditional knowledge, and other parameters. These projects involve quantifying wildlife populations numbers to determine sustainability given the increased activity on the North Slope. Also needed is a ground survey for King and Spectacled eiders and other sea ducks to document breeding biology and potential impacts of the oil industry; an intensive aerial survey for Stellar's eiders near Barrow; a migration count of Spectacled eiders near Wainwright; and satellite telemetry of Steller's eiders in an area to the east of Barrow near Dease Inlet.

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.
- (3) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

e. Wildlife Research. The DWM is conducting examinations of harvested animals to assess health, feeding ecology, reproductive status, use of new weapons required by federal law and other factors.

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) mitigating damage to fish, wildlife, or natural resources, including such activities authorized under subtitle B of title IV of the Oil Pollution Act of 1990 (33 U.S.C. 1321(c),(d)).

f. Fish and Game Management Committee. Because the Fish and Game Management Committee has a representative from each village, it is a valuable means for (1) bring village concerns to the attention of the DWM, and (2) assisting in the local coordination of wildlife studies and management. The ADF&G has been utilizing this committee, with no support, as a formal ADF&G meeting to involve residents. The committee needs funding for its continuation.

Applicable authorized uses:

- (1) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

g. Contaminants Research. Research on contamination is essential to understanding habitats, water quality, human and wildlife population risk and how global activities affect these resources. The DWM is currently performing a limited amount of

contaminants work, wildlife effects and potential human exposure. Laboratory analyses of heavy metals, organochlorines, and radionuclide contaminants in marine and terrestrial mammal tissues are conducted utilizing the projects. A significant gap in contaminants work is the lack of studies on oil-based contaminants.

Applicable authorized uses:

- (1) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

h. ACMP Implementation. The DWM continually requires funding to support the Mayor's Office and the Planning Department in enforcing the provisions of the Borough's Land Management Regulations and Coastal Management Program to reduce the impacts of onshore and offshore industrial activities.

Applicable authorized uses:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) implementation of Federally approved marine, coastal, or comprehensive conservation management plans.

i. Baseline Studies. There is a need for baseline studies on disturbances from oil and gas development. In the terrestrial and freshwater environments, the arctic coastal plain is a critical system that is not well understood. Disturbances from human activities such as oil and gas development are an important area of research, and baseline studies can be undertaken on all marine mammals for determining nutritional condition, impacts by humans and contamination, as development occurs. Studies in winter are essential for understanding the year-round dynamics of the arctic environment.

Applicable authorized uses:

- (1) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

j. Federal Plan Implementation. DWM represents the Borough in contacts with the Minerals Management Service regarding preparation of the Draft Environmental Impact Statements (DEIS) for the proposed Liberty Development Project in the Beaufort Sea. DWM participates in numerous federal technical forums.

Applicable authorized use: implementation of Federally approved marine, coastal, or comprehensive conservation management plans.

16. NORTHWEST ARCTIC BOROUGH (\$102,530)

Contact: Noah Naylor, Planning Director

The Northwest Arctic Borough will use CIAP funds for a study of traditional knowledge of the ecology of the Port Site area, and the observed and predicted impact of the Port Site facilities and expansion. The project would compile a set of maps and narratives concerning the biology and ecology of the region. This would include subsistence and other uses, changes over time, interactions among species and their environment (including humans), and concerns expressed by those interviewed. The purpose of such a study would be to document (a) the detailed knowledge of the region and its biology and ecology, much of which is known only by elders and experienced hunters and is not available from any other source, (b) the observed and anticipated impacts of current and future development in the region, and (c) the concerns of area residents about the impacts of development and any suggestions for minimizing or avoiding those impacts. This information would help the Northwest Arctic Borough and others to make development decisions by providing a better understanding of the environmental and cultural impacts of the development activities.

The traditional knowledge would be documented in a series of individual or group interviews in the communities. The interviews would include the use of maps to show specific locations and to organize the information over the area under consideration. Once the initial documentation is complete, the researchers would prepare draft maps and reports, and circulate these to the participants in the study and their communities. The drafts would be reviewed for accuracy and to make sure they did not contain information harmful to the interests of the individuals or the communities. Once the community, the participants, and the researchers are satisfied with the report, it can be published and distributed. Depending on the specific method used to document the information, the project could take from 8 to 24 months.

Estimated cost: \$100,000 to \$250,000.

Applicable authorized uses:

- (1) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

17. CITY AND BOROUGH OF SITKA (\$134,188)

Contact: Marlene Campbell, Special Projects Director

The City and Borough of Sitka will use CIAP funds for one or more of the following projects:

- a. Indian River Corridor and Watershed Master Plan. The Municipality will create a master plan for the Indian River that will analyze the floodplain, wetlands/hydrology, varied resources, water availability, purity and water use authorization issues, varied ownerships and proposed uses, fish habitat issues, and recreation, residential, commercial and other uses. A contract would be let to analyze the resources and identify specific areas to be set aside, location of walking trails, land ownerships and possible transfers,

watershed protection measures, wetlands mitigation projects, and other long-range planning. The project will permit the Municipality to assess, plan for and manage the Indian River watershed area, which has very high habitat and resource values and is of great importance to the community as a potable water supply, anadromous fish stream, historical use area, recreational use area, hydroelectric generation source, wetlands environment, and is an area under multiple ownerships facing intense development pressures. The master plan will help Sitka deal with these many competing interests and devise the best possible compromise to protect the resources and still permit appropriate development.

Estimated cost: \$81,000

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (3) addressing watershed protection or other coastal or marine conservation needs which cross jurisdictional boundaries;
- (4) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (5) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

b. Aerial Photography of Sitka Sound. A contract will be let for aerial photography of all the islands and developed areas in Sitka Sound. The images will be regular photographs and available on CD so they can be readily accessed. The photography will provide a baseline for the development that is occurring. Future levels of development and related impacts can be assessed using this baseline information. Documentation of development in Sitka Sound will also benefit state and federal agencies as well as the Municipality in the management of the local, state and federal lands in the Sound, including identification of floathouses, docks and other structures, fills (discharges) and other permit issues.

Estimated cost: \$40,000

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries.

c. Computer System for Aerial Photography/Mapping and ACMP Implementation. In order to access available digital information, an upgraded computer system is needed for the Coastal Management Coordinator. The coordinator currently uses an older computer

system that is not powerful enough to process aerial photography or mapping and access to other equipment is limited. An upgraded system will make it possible for the coordinator to utilize the results of the aerial photography project and to support other coastal management activities, including assistance to the public, research and monitoring, and cooperation with other agencies.

Estimated cost: \$3,188

Applicable authorized uses:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) assistance to local communities to assess, plan for and manage the impacts of growth and development on coastal or marine habitats and natural resources, including coastal community fishery assistance programs that encourage participation in sustainable fisheries;
- (3) implementation of Federally approved marine, coastal, or comprehensive conservation management plans.

d. Whale Park Listening Station. CIAP funds will provide matching funds for a low power FM radio station linked by hydrophone to the ocean floor at Sitka's Whale Park and be used to develop curriculum for the classroom. The project will enable the scientific research community, the general public and students of all grades to listen to real-time underwater marine mammal vocalizations and other underwater sounds. A 24-hour window on the ocean environment will provide a reliable system for data collection, not subject to the elements.

Estimated cost: \$10,000

Applicable authorized uses:

- (1) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (2) projects that promote research, education, training and advisory services in fields related to coastal and Great Lakes living marine resource use and management.

e. Trust Fund. In the event that specific projects proposed for CIAP funding are not approved by the Assembly or State or Federal managing agencies, Sitka would like to reserve the right to place the funds in a Trust that may be used to meet the following needs: dredging various materials from the impaired waterbody of Silver Bay and Herring Cove; or stabilizing the shoreline at the former mill site which is eroding and the building nearest the water is subsiding as a result. There may be further requirements for dredging or other management of the Swan Lake AMSA in order to stabilize the lake and stop the acceleration of the eutrophication process. All these projects have much larger costs than \$134,188, but this level of funding would permit a significant response.

Estimated cost: \$134,188

Applicable authorized uses:

- (1) conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats;
- (2) protection, restoration and enhancement of coastal water quality consistent with the provisions of the Coastal Zone Management Act (16 U.S.C. 1451 et seq.), including the reduction or monitoring of coastal polluted runoff or other coastal contaminants;
- (3) protection and restoration of natural coastline protective features, including control of coastal erosion.

18. CITY AND BOROUGH OF YAKUTAT (\$50,835)

Contact: Paul Wescott, Borough Planner, Acting Borough Manager

The City and Borough of Yakutat will use CIAP funds for the following projects:

a. Restoration of Coastline Protective Features. This project will restore coastline protective features that formerly existed in Monti Bay near the downtown area. Some time in the past, the large boulders in the tidelands that protected the shoreline bluff in Yakutat were removed. Subsequently, the bluff above the tidelands has slowly eroded to the point that nearby structures are affected. This project will include planning and design, obtaining the proper permits, and reconstructing eroded bluff slopes to include replacement of the missing armor rock and engineered slope protection. Timeline: May, 2002 – September, 2002.

Estimated Cost: \$22,000 (Partial)

Applicable authorized use: protection and restoration of natural coastline protective features, including control of coastal erosion

b. Air and Water Quality Monitoring and Spill Response. An increasing number of large passenger vessels are entering Yakutat Bay to provide views of Hubbard Glacier and environs. As a subsistence, sport and commercial fishing, and eco-tourism community, Yakutat is concerned that passenger vessel visits may affect the quality of the Bay's air and water. Large passenger vessels have been known to discharge solid and liquid wastes into waters of the State in violation of one or more State and local regulations. In addition, a large number of commercial fishing vessels of varying conditions visit or otherwise operate in the Bay, increasing the risk of inadvertent petroleum discharges. There is little to no Coast Guard or State "on-the-water" presence in Yakutat; consequently, Yakutat has purchased a surplus Coast Guard vessel to deliver monitors and responders to sites of reported discharges or spills. In addition, it has provided and is providing for training of personnel in smoke monitoring, water sampling and spill response. This project will partially provide for vessel operations and for training of monitors for one cruise ship season and for commercial fishing seasons during that period. Timeline: May, 2001 – May, 2002.

Estimated Cost: \$22,000 (Partial)

Applicable authorized use: conservation, restoration, enhancement or protection of coastal or marine habitats including wetlands, estuaries, coastal fishery resources and coral reefs, including projects to remove abandoned vessels or marine debris that may adversely affect coastal habitats.

c. Coastal Management Plan Amendment or Revision. The Yakutat Coastal District has recently doubled in size. Yakutat's Coastal Management Plan is in place for the original District but has not been amended or revised to include the additional area. This project will include scoping, mapping, evaluation, planning, and limited on-site assessment for the additional area in the District. In addition, it will provide for the Coastal Management Plan amendment process.

Estimated Cost: \$6,835 (Partial)

Applicable authorized use:

- (1) activities which support and are consistent with National Estuary programs, including National Estuarine Research Reserve programs, the National Marine Sanctuary Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Coastal Zone Management Act;
- (2) assessment, research, mapping and monitoring of coastal or marine resources and habitats, including, where appropriate, the establishment and monitoring of marine protected areas;
- (3) implementation of Federally approved marine, coastal, or comprehensive conservation management plans.