

ALASKA LEGISLATURE

2055

HOUSE and SENATE FINANCE COMMITTEE FILES, 1999 - 2000

205

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$160,633
Engineer/Inspect:	\$208,823
Construction:	\$1,606,328
Equipment:	
Other:	
Total:	\$1,975,784

Community: North Pole

Project Title: Highway Park Water Distribution

Grant Amount Requested: \$ 1,383,049

Election District:

Project Priority:

Population Served: 500

Project Description:

This project will extend the City of North Pole's water distribution system into the Highway Park Subdivision. The project will construct the necessary main piping, pump stations and other appurtenances in order to provide safe potable water as well as fire protection to the residents of the subdivision.

Project Need:

Highway Park Subdivision is a fully developed subdivision with approximately 100 residences. Existing residences have individual shallow wells for potable water supply. In 1997, through an ADEC Municipal Matching Grant, sewer service was installed. This project will provide safe potable water and improved fire protection to the area.

COMMUNITY CONTACT

Name: City Engineer/Planner

Address: 125 Snowman Lane
North Pole 99705

Phone Number: (907) 488-2881

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$34,600
Engineer/Inspect:	\$31,600
Construction:	\$314,000
Equipment:	
Other:	
Total:	\$380,200

Community: North Pole

Project Title: North Pole Sewer Rehabilitation

Grant Amount Requested: \$ 266,000

Election District:

Project Priority:

Population Served: 1,671

Project Description:

This project will rehabilitate approximately 1,800 L.F. of aging sewer piping. This 14" diameter reinforced plastic mortar pipe (RPMP) was installed in 1972 and is a major "trunk" line for the City's sewer collection system. The City recently had this line video inspected. The results of this inspection show the severe nature of the pipe deterioration and the immediate need for rehabilitation. Due to the physical location and depth of the piping, it appears that the most viable method of rehabilitation would be "slip-lining" this pipe.

Project Need:

As discussed, the results of the video inspection revealed areas of substantial pipe deterioration with significant inflow and infiltration (I&I) of groundwater into the sewer system. This I&I not only causes increased wastewater treatment costs, but the accumulation of sands and gravels within the piping dramatically reduces the hydraulic capacity of the system.

COMMUNITY CONTACT

Name: City Engineer/Planner

Address: 125 Snowman Lane
North Pole 99705

Phone Number: (907) 488-2881

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	
Engineer/Inspect:	\$80,000
Construction:	
Equipment:	
Other:	
Total:	\$80,000

Community: North Pole

Project Title: Water & Sewer System Analysis

Grant Amount Requested: \$ 42,000

Election District:

Project Priority:

Population Served: 1,671

Project Description:

This project will consist of an in-depth study of the North Pole water and sewer utility system. The purpose of the study includes the following: inventory and inspection of the condition of the existing system; analysis and recommendations for revisions to the City's water and sewer utility ordinances (including a user rate analysis); develop long and short term plans for future expansion of the system; and development and implementation of a Geographical Information System (GIS) mapping program for the utility system.

Project Need:

This project will benefit the public in a number of ways. The results and recommendations of the analysis will enable the North Pole Utilities to continue to provide safe and effective water supply and wastewater treatment to the residents of North Pole. This analysis will also ensure for the present and future economic viability of the municipality owned system.

COMMUNITY CONTACT

Name: City Engineer/Planner

Address: 125 Snowman Lane
North Pole 99705

Phone Number: (907) 488-2881

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$30,000
Engineer/Inspect:	\$50,000
Construction:	\$510,000
Equipment:	\$50,000
Other:	\$10,000
Total:	\$650,000

Community: **Palmer**

Project Title: Palmer Sewer Refurbish

Grant Amount Requested: \$455,000

Election District:

Project Priority: One

Population Served:

Project Description:

This project will see the interior of 6,600 lineal feet of 8" and 10" sewer main relined. The new liner will enhance flow an estimated 30% and will structurally replace the aging concrete. The reline process will prevent the hazards and damage caused by excavating through city streets and easements.

Project Need:

Some of the sewer main which will be relined has begun failing structurally and has caused some minor release of sewage contaminants to the environment. It is anticipated that if corrective action is not taken, substantial releases and interruption of services will occur.

COMMUNITY CONTACT

Name: City Manager

Address: 231 W. Evergreen Avenue
Palmer 99645-6952

Phone Number: (907) 745-3271

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$5,000
Engineer/Inspect:	\$100,000
Construction:	
Equipment:	\$5,000
Other:	\$4,000
Total:	\$114,000

Community: Palmer

Project Title: Storm Water and Pollution Prevention Plan

Grant Amount Requested: \$ 79,800

Election District:

Project Priority: Three

Population Served: 4,300

Project Description:

This project is to study and provide an engineered storm water system and to provide a Pollution Prevention Plan for the storm drain system.

Project Need:

Currently, some of the subdivisions have been constructed with storm drain systems that dump to adjacent lands. As more subdivisions are being developed, the City needs to accommodate the runoff to prevent accumulation of stagnant waters. The Pollution Prevention Plan will prevent pollutants from entering waterways from our storm drain system inadvertently.

COMMUNITY CONTACT

Name: City Manager

Address: 231 W. Evergreen Avenue
Palmer 99645-6952

Phone Number: (907) 745-3271

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$30,000
Engineer/Inspect:	\$50,000
Construction:	\$600,000
Equipment:	\$525,000
Other:	\$165,000
Total:	\$1,370,000

Community: Palmer

Project Title: Water System Upgrade, Phase I

Grant Amount Requested: \$ 959,000

Election District:

Project Priority: Two

Population Served:

Project Description:

This project is Phase I of a three phased project.

Phase I includes: (a) New water main tie, Industrial Park to MTA, which will begin to complete a loop which can provide a redundant supply route for the City; (b) New water well to add to existing supply; (c) New treatment facility and well connecting supply line to attach the new well, after treatment, to the existing system; and (d) Repair and recoat an existing 1 million gallon water reservoir.

Phase II (approximately 1.6 million) will consist of construction of a new water reservoir ensuring adequate capacity in case of power, mechanical or contamination failure.

Phase III (approximately 1.4 million) will consist of refurbishing, replacing and expansion of below ground mains for current and new customer connections.

Project Need:

- A. Currently, the city lacks adequate alternate methods of water supply for contingency in case of contamination, mechanical failure, or source of water during outages for maintenance.
- B. Growth rate and anticipated annexation will increase demand on the current water supply.
- C. Current one million gallon reservoir has been inspected and found to be in need of repair and recoating.

COMMUNITY CONTACT

Name: City Manager

Address: 231 W. Evergreen Avenue
Palmer 99645-6952

Phone Number: (907) 745-3271

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$5,000
Engineer/Inspect:	\$10,000
Construction:	\$68,933
Equipment:	
Other:	\$12,500
Total:	\$96,433

Community: **Petersburg**

Project Title: Landfill Closure

Grant Amount Requested: \$ 67,503

Election District:

Project Priority:

Population Served: 3,500

Project Description:

In April of 1998, the City began shipping baled solid waste to the Roosevelt Regional Landfill in Klickitat County, Washington. With this change in operations, the City is ready to close out its Class II landfill and begin operating as a Class III Municipal Landfill. This project will close the landfill according to ADEC Standards/Regulations.

Project Need:

This project will eliminate any possibility of vector attraction and potential leachate.

COMMUNITY CONTACT

Name: Public Works Director

Address: P.O. Box 329
Petersburg 99833

Phone Number: (907) 7272-4430

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$52,500
Engineer/Inspect:	\$144,375
Construction:	\$921,995
Equipment:	
Other:	\$179,697
Total:	\$1,298,567

Community: **Petersburg**

Project Title: North Second Street Reconstruction Project

Grant Amount Requested: \$ 908,997

Election District:

Project Priority:

Population Served: 3,500

Project Description:

This project consists of installing approximately 1,000 linear feet of new water transmission mains and replacement of approximately 750 linear feet of water and sewer mains. Approximately 1,750 linear feet of new storm sewer will be constructed. In general the existing water and sewer utilities are a mixture of different types and sizes of materials and in poor condition. There is water infiltration within the existing sewer system and the water system is undersized for future development and fire protection.

Project Need:

The project will assist the City reduce infiltration and inflow in the wastewater collection system. The water system will be looped to provide more adequate flows and pressure to the area. A storm sewer will be extended into the area to remove water.

COMMUNITY CONTACT

Name: Public Works Director

Address: P.O. Box 329
Petersburg 99833

Phone Number: (907) 772-4430

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$60,000
Engineer/Inspect:	\$225,000
Construction:	\$1,900,000
Equipment:	\$25,000
Other:	\$250,000
Total:	\$2,460,000

Community: **Petersburg**

Project Title: Scow Bay Water, Phase II

Grant Amount Requested: \$ 1,722,000

Election District:

Project Priority: One

Population Served: 3,500

Project Description:

Phase II of this project constructs an access road and 18" HDPE transmission main between the new two million gallon storage tanks, constructed in Phase I, and the top of Mill Road in Scow Bay.

Project Need:

Water samples taken from individual water supplies in the Scow Bay area indicate that the water quality is below those standards set for potable use. Bacteria concentrations indicate an acute health threat and inorganic contaminants show a chronic health threat.

COMMUNITY CONTACT

Name: Public Works Director

Address: P.O. Box 329
Petersburg 99833

Phone Number: (907) 772-4430

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$127,920
Engineer/Inspect:	\$50,000
Construction:	\$177,920
Equipment:	\$889,600
Other:	
Total:	\$1,245,440

Community: **Sand Point**

Project Title: Sanitary Landfill, Phase III

Grant Amount Requested: \$ 1,058,624

Election District:

Project Priority: One

Population Served: 1,300

Project Description:

For more than a decade, the City has been searching for a viable alternative to the current landfill. Recent events have occurred that now allow the City to design and construct a new, state-of-the-art landfill. Phase I: approval from BIA to construct a 3+ mile road to the preferred landfill site. Cooperative working relationships between the federal, state and local governments have been excellent. Even more encouraging has been the positive "can do" attitude of local native organizations. Construction on the new road is scheduled to begin 10/98. Phase II: receive DEC funding to begin the design of the new landfill. Phase III: begin construction of the landfill. A request to DEC for funding along with local funds and a loan from the Alaska Clean Water Fund should allow us the opportunity to actually begin construction in the fall of 1999. Phase IV funding will be requested in FY01 to complete construction and close the current dump.

Project Need:

This project is vital in order to remove certain environmental, health and safety concerns from the community. Environmental: city currently uses an unpermitted open dump to dispose of all solid waste.

Health: facility is located on the main highway from the airport and in close proximity to the community drinking water supply.

Safety: site is located within 1 mile of the city airport and the constant attraction of birds to the facility causes great concern for the safety of air traffic to/from the community.

COMMUNITY CONTACT

Name: City Administrator

Address: 1600 A Street, Suite #103
Anchorage 99501-5146

Phone Number: (907) 274-7561

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$2,500
Engineer/Inspect:	\$25,000
Construction:	
Equipment:	
Other:	
Total:	\$27,500

Community: Seward

Project Title: Water Distribution System Analysis

Grant Amount Requested: \$ 24,750

Election District:

Project Priority:

Population Served: 3,000

Project Description:

Seward's well system provides up to 3.5 million gallons per day. The estimated usage per person is between 600-800 gallons per day, per person. This is one of the highest rates in Alaska. The public works section strongly believes that leaks in the system are a significant cause of the high usage rate in the City. This project will identify the leaks in the system and begin the repair process that is a part of a larger Water System Infrastructure Development Project. This will focus the efforts of the City to eliminate inefficiencies in the system through structural repairs.

Project Need:

Due to an increased demand on the water system, believed to be due at least in part to leaks within the system, the City has incurred a number of costs and potential risks. The City has had to install larger pumping systems, is planning on drilling a new well, and needs additional water pressure and supply to increase its ISO rating. All of these factors are contingent on an efficient, structurally sound water system. Failure to find these leaks and to repair them constitutes the need to spend more on the operation and maintenance of the existing system, perpetrates a fire risk, and may be a significant contributor to the need for the city to bid the installation of a new well.

COMMUNITY CONTACT

Name: Manager

Address: P.O. Box 167
Seward 99664

Phone Number: (907) 224-4071

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	
Engineer/Inspect:	\$120,000
Construction:	
Equipment:	
Other:	
Total:	\$120,000

Community: **Sitka**

Project Title: Sewer Feability Study

Grant Amount Requested: \$ 60,000

Election District:

Project Priority:

Population Served:

Project Description:

Provide a feasibility study, basin study, and pre-design report of the main collector system extension south along the highway from Shotgun Alley to Whale Park. This area contains approximately 75 building lots, many of which currently have failed on-site treatment units and documented public health and environmental concerns (DEC NOV's). The City and Borough of Sitka has budgeted to have a feasibility study performed in the fall of 1998. If grant monies are available, the pre-design phase will continue into design for the construction of a first phase collection extension.

Project Need:

Current situation - Documented Public health/pollution hazards. Failed on-lot treatment disposal systems in these densely populated areas. This study will provide monies to evaluate options, predesign, gather required survey information and possibly construction documents for Phase I (Cedar Beach).

COMMUNITY CONTACT

Name: City Engineer

Address: 100 Lincoln Street
Sitka 99835

Phone Number: (907) 747-1805

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$10,000
Engineer/Inspect:	\$109,000
Construction:	\$1,350,100
Equipment:	
Other:	
Total:	\$1,469,100

Community: Sitka

Project Title: WW Collection System Expansion

Grant Amount Requested: \$ 734,550

Election District:

Project Priority:

Population Served:

Project Description:

Expand existing City and Borough of Sitka Wastewater (WW) Collection System to two low lying densely populated areas. These areas currently have on-lot treatment and disposal systems in different states of operation/nonoperation with long histories of inadequately treated sewage disposal problems.

Phase I - Final design - Cedar Beach Road and Pre-design - Shotgun Alley

Phase II - Final design - Shotgun Alley and Construction - Cedar Beach Road

Phase III - Construction of Shotgun Alley

Project Need:

Currently there is a documented public health/pollution hazard, failed on-lot treatment and disposal systems. This project will design and construct collection and pumping into existing interceptor sewer thus eliminating discharges in these two densely populated area.

COMMUNITY CONTACT

Name: City Engineer

Address: 100 Lincoln Street
Sitka 99835

Phone Number: (907) 747-1805

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$100,000
Engineer/Inspect:	\$600,000
Construction:	\$3,000,000
Equipment:	
Other:	\$300,000
Total:	\$4,000,000

Community: **Sitka**

Project Title: WW Collection System Extension - SMC
Road

Grant Amount Requested: \$ 2,000,000

Election District:

Project Priority:

Population Served: 8,500

Project Description:

This project will extend the main collector system south along highway (SMC) to allow the connection of approximately 75 building sites, elimination of many currently failed on-site treatment units with documented public health and environmental concerns (DEC NOV's). Most notably is the residents on Blueberry Lane and the contamination of the nearby creek.

Project Need:

Expand existing interceptor. Connect homes with failed on-lot treatment units. Area has documented public health/pollution hazards.

COMMUNITY CONTACT

Name: City Engineer

Address: 100 Lincoln Street
Sitka 99835

Phone Number: (907) 747-1805

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$6,000
Engineer/Inspect:	\$8,000
Construction:	\$28,700
Equipment:	\$7,300
Other:	\$6,000
Total:	\$56,000

Community: Skagway

Project Title: Wastewater, Outfall Diffuser Modification

Grant Amount Requested: \$ 47,600

Election District:

Project Priority:

Population Served: 850

Project Description:

The existing diffuser does not provide adequate dilution of the wastewater discharge. The City proposes to remove the current diffuser and replace it with a 200 foot extension pipe with discharge ports at regular intervals for better dispersion. EPA, ADEC and the City's consulting engineer believe this will correct the ongoing non-compliance with our NPDES permit requirements for copper.

Project Need:

Current diffuser on outfall is not allowing adequate dilution of effluent. Improved dilution would serve to better protect marine environment and meet NPDES permit requirements. Skagway is currently listed as being significantly in non-compliance for copper levels.

COMMUNITY CONTACT

Name: City Manager

Address: P.O. Box 415
Skagway 99840

Phone Number: (907) 983-2297

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$2,500
Engineer/Inspect:	\$65,000
Construction:	\$575,000
Equipment:	
Other:	\$7,500
Total:	\$650,000

Community: **Soldotna**

Project Title: Funny River Road Water and Sewer
Extension Sterling Highway to Airport

Grant Amount Requested: \$ 500,000

Election District:

Project Priority: Five

Population Served: 4,000+

Project Description:

This project will provide for the installation of water and sewer mains from the Sterling Highway to the Airport. This will promote development (residential, commercial, and airport) along the entire length of the project, while maintaining safe wastewater disposal. This project will also connect Well E at the airport to the Soldotna water system. According to the well drillers log, Well E has a tremendous capability with excellent water quality.

One lift station may be needed to accomplish this project.

Project Need:

This project is needed to promote residential, commercial and airport development. This kind of development will benefit the public by providing business opportunities. Consequences of not doing this project would include no or very slow development at the airport and marginal volume of water to the existing Soldotna water system. The area to be served is immediately adjacent to the Kenai River; existing and future development using on-site systems increases risk of harm to fish stocks.

COMMUNITY CONTACT

Name: City Manager

Address: 177 N. Birch
Soldotna 99669

Phone Number: (907) 262-9107

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$1,500
Engineer/Inspect:	\$44,000
Construction:	\$450,500
Equipment:	
Other:	\$4,500
Total:	\$500,500

Community: **Soldotna**

Project Title: Sterling Highway Water and Sewer Extension

Grant Amount Requested: \$ 385,000'

Election District:

Project Priority: Three

Population Served: 4,000

Project Description:

Installation of water and sewer mains along the south side of the Sterling Highway from Birch Street to East Redoubt Avenue. It may also include necessary mains crossing the Sterling Highway to connect this extension to the water and sewer system. This project will help eliminate existing on-site water and sewer systems to the existing commercial buildings in the Soldotna "Y" project area. This project would also encourage future construction in this commercially zoned area between the highway and the Kenai River.

Project Need:

The project is needed to promote commercial development which in turn promotes our local economy and job opportunities. Some of the existing commercial structures appear to be on-site septic systems. Further commercial growth using septic systems this near the Kenai River is not desirable.

COMMUNITY CONTACT

Name: City Manager

Address: 177 N. Birch
Soldotna 99669

Phone Number: (907) 262-9107

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$5,000
Engineer/Inspect:	\$60,000
Construction:	\$195,000
Equipment:	\$85,000
Other:	\$5,000
Total:	\$350,000

Community: Soldotna

Project Title: WWTP Emergency Generator - Digester Blower

Grant Amount Requested: \$ 250,000

Election District:

Project Priority: One

Population Served: 4,000

Project Description:

This project has two phases: Phase I: Installation of an alternate commercial power feed from the Homer Electric Association. This will allow a higher probability of continued commercial power under most emergency power situations.

Phase II: Installation of an emergency generator and new digester blowers. This project will accomplish two primary concerns: (1) emergency generator would provide on-site generated power to assure continued operation of the wastewater treatment plant (WWTP) in emergency situations and (2) the new blowers will allow continued growth of the community in the future and improve processing at the WWTP upon completion of the project. The anticipated construction includes expansion of the existing blower room, installing the emergency generator in the existing lab and restroom area, and construction of a new lab, restroom and office building.

Project Need:

This project is a proactive step to try and avoid possible mishaps that are conceivable and probable. For instance, if commercial power is not available for any reason, the aeration basin becomes a still basin. If a power outage remains for over approximately four hours, the type of "friendly" bacteria dies off and is replaced by an "unfriendly" type. These unfriendly type bacteria are very difficult to eliminate, even after commercial power is restored.

COMMUNITY CONTACT

Name: City Manager

Address: 177 N. Birch
Soldotna 99669

Phone Number: (907) 262-9107

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$1,500
Engineer/Inspect:	\$45,000
Construction:	\$238,000
Equipment:	\$165,000
Other:	\$5,000
Total:	\$454,500

Community: Soldotna

Project Title: WWTP Ultra Violet (UV) System

Grant Amount Requested: \$ 350,000

Election District:

Project Priority: Seven

Population Served: 4,000+

Project Description:

The UV system will eliminate the need to use chemicals or gases for disinfection of the City's effluent from the wastewater treatment plant (WWTP). The WWTP effluent discharges into the Kenai River which is classified as very sensitive receiving waters.

Project Need:

The WWTP is located in the middle of Soldotna and discharges into the Kenai River, the life blood of our community, supporting tourist, commercial and subsistence fishermen, river fishing guides and sports anglers. The City is continually striving to refine the treatment process in an effort of improving effluent quality. Prior to 1992, chlorine gas was used for disinfection at the WWTP. In 1992 there was a chlorine gas leak that caused evacuation of over half the town. After the leak, several different types of disinfection systems were evaluated.

COMMUNITY CONTACT

Name: City Manager

Address: 177 N. Birch
Soldotna 99669

Phone Number: (907) 262-9107

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$10,000
Engineer/Inspect:	\$60,000
Construction:	\$590,000
Equipment:	
Other:	
Total:	\$660,000

Community: **Unalaska**

Project Title: Water System Improvement (SWTR)

Grant Amount Requested: \$ 462,000

Election District:

Project Priority: Two

Population Served: 4,300

Project Description:

This project consists of completing design and constructing infrastructure necessary to bring the City's Well 2 into compliance with the Surface Water Treatment Rule. Options for compliance include well head modifications, filtration, disinfection or possibly drilling a new well.

Project Need:

In July 1997, the DEC determined Well 2 to be under the influence of surface water and subject to the Surface Water Treatment Rule. Because the water source has been determined to be directly influenced by surface water, a health threat exists. Possible contaminants include cryptosporidium and giardia. In August 1997 the DEC informed the City it has until January 15, 1999 to bring Well #2 into compliance with the Surface Water Treatment Rule.

COMMUNITY CONTACT

Name: Mike Golat

Address: P.O. Box 610
Unalaska 99685

Phone Number: (907) 581-1260

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$20,000
Engineer/Inspect:	\$628,000
Construction:	\$1,516,000
Equipment:	\$543,000
Other:	\$185,000
Total:	\$2,892,000

Community: Unalaska

Project Title: WWTP Upgrade

Grant Amount Requested: \$ 63,385

Election District:

Project Priority: One

Population Served: 4,300

Project Description:

This project includes adding ultra violet disinfection to the City's wastewater treatment process and upgrading the wastewater treatment plant to comply with applicable building and electrical codes. The disinfection system will be designed to process up to two million gallons per day. The new disinfection system will reduce fecal coliform bacteria to a level that will comply with Alaska State water quality standards.

Project Need:

This project is needed to ensure that effluent from the wastewater treatment plant meets Alaska Water Quality Standards for fecal coliform. Based on a fecal coliform mixing zone study conducted by CH2M Hill in August 1996, the ADEC determined the City exceeded water quality standards for fecal coliform at the shoreline where there is documented harvest of shellfish and finfish. Therefore, because there was concern regarding the potential for fecal-related illnesses including cholera and dysentery, EPA issued a compliance order (9/97) mandating that disinfection be added by 9/1/00.

COMMUNITY CONTACT

Name: Director of Public Utilities

Address: P.O. Box 610
Unalaska 99685

Phone Number: (907) 581-1260

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$47,500
Engineer/Inspect:	\$142,500
Construction:	\$760,000
Equipment:	
Other:	
Total:	\$950,000

Community: **Valdez**

Project Title: Backup Well House for In-Town Reservoir

Grant Amount Requested: \$ 665,000

Election District:

Project Priority:

Population Served: 3,500

Project Description:

This project will provide an additional water pump station to supply potable water to the City's number two reservoir.

Project Need:

The City's main potable water system has two 750,000 gallon reservoirs. The number one reservoir is supplied with drinking water by two main pump stations. Reservoir number two is supplied with drinking water by one pump station. In the event that the single pump station supplying the number two reservoir experiences a major pump failure the remaining pump stations supplying reservoir number one will not keep up with the water demand during peak times (i.e. summer months). Without water to the City's main system the following dilemmas will occur: main town will be without fire protection; businesses dependent on water supply will be shut down; and water distribution grid will be contaminated due to negative line pressure.

COMMUNITY CONTACT

Name: Utilities Manager

Address: P.O. Box 307
Valdez 99686

Phone Number: (907) 835-4888

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$150,000
Engineer/Inspect:	\$450,000
Construction:	\$2,400,000
Equipment:	
Other:	
Total:	\$3,000,000

Community: **Valdez**

Project Title: Mineral Creek Loop Road Water System

Grant Amount Requested: \$ 300,000

Election District:

Project Priority:

Population Served:

Project Description:

This project will provide the City's Loop Road Water System with approximately three miles of additional water distribution line and a Class A water pump station. It will provide drinking water to the three additional areas including the existing Loop Road water system.

Project Need:

The existing water system provides water to a quarter of the areas population with a well which is under the direct influence of surface water and cannot produce the quantities needed for the area. This expansion would provide Class A water to approximately 300 additional residences or persons.

COMMUNITY CONTACT

Name: Utilities Manager

Address: P.O. Box 307
Valdez 99686

Phone Number: (907) 835-4888

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$220,000
Engineer/Inspect:	\$990,000
Construction:	\$4,317,390
Equipment:	
Other:	
Total:	\$5,527,390

Community: **Valdez**

Project Title: Robe River Sewer System

Grant Amount Requested: \$ 3,869,173

Election District:

Project Priority:

Population Served: 400

Project Description:

This will provide a sanitary sewer trunk line from the City's wastewater treatment plant to the Robe River area. The existing subdivision contains 211 lots and has only private leach fields. There are two planned subdivisions in the immediate vicinity which could benefit from the extension with a combined total of approximately 200 lots. If no sewer trunk is available, these lots will use private leach fields also. The total number of lots to be serviced within the near future by the line would be approximately 411. The water supply is with a local well and community water distribution system.

Project Need:

The area to be served is the primary growth area in Valdez. Existing lots total 211 and planned lots total 200, which would give sewer service to 411 total lots. In addition, the area in question will have additional growth in the future, as it is one of the few areas in the City of Valdez capable of supplying land for major residential growth. When the Trans-Alaska Gas Line project is constructed, this area will serve as the primary residential area for the expected growth. Without the sewer trunk line to the area, all existing, planned and expected growth to the area will be by private on-site septic systems, as no other option exists. This grant will provide a major opportunity to be proactive in preventing a degradation of the existing water supply well.

COMMUNITY CONTACT

Name: Acting City Engineer

Address: P.O. Box 307
Valdez 99686

Phone Number: (907) 835-4313

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$107,000
Engineer/Inspect:	\$295,000
Construction:	\$1,348,000
Equipment:	
Other:	
Total:	\$1,750,000

Community: **Wasilla**

Project Title: Parks Highway West Water Main Extension

Grant Amount Requested: \$ 1,225,000

Election District:

Project Priority:

Population Served: 1,000

Project Description:

A sixteen inch water main will be extended west from the existing system along the Parks Highway. This extension will immediately provide a safe source of drinking water and fire protection service to the western portion of the downtown area. This area currently has a public school and several businesses, including a lumber yard and a large hotel. Residences could also be served on this main.

Project Need:

Wasilla is the fastest growing area in Alaska. Without public water utility service, rapid development will result in an ever-increasing number of water wells. A large majority of the City's residents rely upon private groundwater wells for their water supply. Many residents could be consuming unsafe drinking water since their water is not tested for contaminants. Also the City's water utility relies upon having safe groundwater for its customers (no surface drinking water sources). As more wells draw down the aquifers, the potential for contamination to migrate horizontally and vertically (into deeper aquifers) increases.

COMMUNITY CONTACT

Name: Public Works Director

Address: 290 East Herning Avenue
Wasilla 99654

Phone Number: (907) 373-9055

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$80,000
Engineer/Inspect:	\$150,000
Construction:	\$670,000
Equipment:	
Other:	\$100,000
Total:	\$1,000,000

Community: **Wasilla**

Project Title: Sewer Trunk Line Extension

Grant Amount Requested: \$ 1,000,000

Election District:

Project Priority:

Population Served: 4,917

Project Description:

A sixteen inch gravity sewer line from the City's treatment plant to the Seward Meridian Road/Parks Highway intersection area is proposed for construction. This trunk line project will serve a rapidly growing portion of the City that does not currently have sewer service. All properties in this area, including major commercial users, have on-site septic systems. Similarly, all properties are served by on-site wells. Many lots are small. The subsurface is primarily porous gravel. With these conditions, drinking water wells are jeopardized by the many septic systems in the area. This project will accomplish several goals: reduce potential health hazards of failed septic systems (especially large commercial properties), reduce impacts to the groundwater and public health concerns related to consuming contaminated groundwater, and increase opportunities for economic development.

Project Need:

Public benefits from this project include protecting drinking water wells, providing a cost-effective solution to failed septic systems, and more commercial development will occur increasing sales tax receipts for other City infrastructure projects. This project will satisfy the public needs for safe water supplies, cost effective wastewater disposal, and adequate infrastructure for economic development. If this project is not constructed, property owners will be faced with expensive, complicated solutions when failed septic systems need to be replaced.

COMMUNITY CONTACT

Name: Public Works Director

Address: 290 East Herning Avenue
Wasilla 99654

Phone Number: (907) 373-9055

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$110,000
Engineer/Inspect:	\$225,000
Construction:	\$1,110,000
Equipment:	
Other:	\$361,106
Total:	\$1,806,106

Community: **Wasilla**

Project Title: Storm Water Treatment and Disposal System

Grant Amount Requested: \$ 1,264,274

Election District:

Project Priority:

Population Served: 4,917

Project Description:

The City identified storm water disposal as a basic infrastructure need to protect public health and the environment in the early 1980's. Currently, storm water disposal in Wasilla is by means of dry wells and surface discharges into Lake Lucille and Wasilla Lake. Monitoring wells near some of the dry wells have proven that the groundwater is subject to contamination. Sample results of the surface discharge into Wasilla Lake also shows contamination entering the lake. Public health is currently endangered in various ways: 1) consuming groundwater from private and public wells subject to dry well contamination sources, 2) skin contact with the storm water discharge into the lakes (swimming, water skiing, jet ski use, boating), and 3) eating contaminated fish. Water quality will continue to degrade as land is developed.

Project Need:

Without a storm sewer system, rapid development will result in an ever-increasing number of dry wells being installed as new roads are constructed and existing roads are paved. A large majority of the City's residents rely upon private groundwater wells for their water supply. Many residents could be consuming unsafe drinking water since their water is not tested for contaminants. Also the City's water utility relies upon having safe groundwater for its customers (no surface drinking water sources). As more wells draw down the aquifers, the potential for contamination to migrate horizontally and vertically (into deeper aquifers) increases.

COMMUNITY CONTACT

Name: Public Works Director

Address: 290 East Herring Avenue
Wasilla 99654

Phone Number: (907) 373-9055

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$150,000
Engineer/Inspect:	\$375,000
Construction:	\$1,925,000
Equipment:	
Other:	\$150,000
Total:	\$2,600,000

Community: **Wasilla**

Project Title: WWTP Phase 3A

Grant Amount Requested: \$ 300,000

Election District:

Project Priority:

Population Served: 4,917

Project Description:

This project will resolve a nitrate problem the City has had since 1986 and allow for elimination of potential long term contamination of groundwater. This problem may be resolved through a change in disposal method of final effluent or by additional treatment of the effluent to remove nitrate.

Project Need:

Since construction in 1986, there has been a continuing effort to maintain nitrate levels of the discharge within the parameters of the ADEC permit. Long term, there is a risk of contamination of the groundwater and nearby surface stream.

COMMUNITY CONTACT

Name: Public Works Director

Address: 290 East Herning Avenue
Wasilla 99654

Phone Number: (907) 373-9055

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$34,000
Engineer/Inspect:	\$102,000
Construction:	\$714,000
Equipment:	
Other:	
Total:	\$850,000

Community: **Wrangell**

Project Title: Church Street Wood Stave Water Main Replacement

Grant Amount Requested: \$ 595,000

Election District:

Project Priority: Three

Population Served: 2,500

Project Description:

The City's water system has 2,300 lf of wood stave water main which was installed around the first of the century. An engineering report done in 1995 recommends replacement of the line to increase the fire flow to the downtown business district. This line is suspected of substantial leakage but because of the type of pipe normal leak detection is not effective.

Project Need:

When this line has been exposed for repair work, it has been documented that some property services are copper with sections of hydraulic base spliced in with hose clamps. This can easily cause contamination to both the residence served and the City's distribution system.

COMMUNITY CONTACT

Name: Public Works Superintendent

Address: P.O. Box 531
Wrangell 99929

Phone Number: (907) 874-3904

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$2,475
Engineer/Inspect:	\$52,525
Construction:	
Equipment:	
Other:	
Total:	\$55,000

Community: **Wrangell**

Project Title: Wastewater Treatment Plant Analysis

Grant Amount Requested: \$ 38,500

Election District:

Project Priority: Two

Population Served: 2,700

Project Description:

The City's wastewater treatment plant was constructed in 1976. In 1992 URS Consultants, Inc. evaluated the plant as part of our effort to meet new State and Federal Regulations. This project would use URS's report as a starting point for an updated evaluation that would include long range plans for sludge handling, upgraded electronic controls, telemetry and facility repair.

Project Need:

Since 1976, the expansion of our water and sewer system has increased the loading at the wastewater treatment plant. Although we are currently meeting our requirements, a failure of any one component at the plant would cause a potential for major pollution hazard. The electric controls are so old that we cannot find replacement parts which increases our chances for a failure.

COMMUNITY CONTACT

Name: Public Works Superintendent

Address: P.O. Box 531
Wrangell 99929

Phone Number: (907) 874-3904

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$33,750
Engineer/Inspect:	\$90,000
Construction:	\$626,250
Equipment:	
Other:	
Total:	\$750,000

Community: **Wrangell**

Project Title: Water System Rehab. Phase I

Grant Amount Requested: \$ 525,000

Election District:

Project Priority: Four

Population Served: 2,500

Project Description:

The City has over four miles of asbestos-cement water lines. Some of these lines were installed 40 years ago and are currently in a deteriorating condition. As part of our effort to upgrade our system and to protect the public health, we are starting a phased project to replace these lines with ductile iron pipe. The requested funds would be for the initial engineering and the first phase of construction.

Project Need:

During Wilson Engineering's evaluation of our water system, some of the asbestos-cement water lines were found to be soft and flaking. Recently while flushing fire hydrants downtown, two large 4" x 6" pieces of the lining of this pipe were flushed from the system. Although no asbestos has been found in our normal testing, if this pipe deteriorates to the point where small pieces of asbestos come loose and enter the system we could have a serious health hazard.

COMMUNITY CONTACT

Name: Public Works Superintendent

Address: P.O. Box 531
Wrangell 99929

Phone Number: (907) 874-3904

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$52,000
Engineer/Inspect:	\$156,000
Construction:	\$1,144,000
Equipment:	
Other:	
Total:	\$1,352,000

Community: **Wrangell**

Project Title: Zimovia Water & Sewer Extension, Phase IV

Grant Amount Requested: \$946,400

Election District:

Project Priority: One

Population Served: 2,700

Project Description:

This project is the final phase in the extension of sewer and water along Zimovia Highway from the North entrance of Zimovia Loop Road, approximately one mile to the former APC mill property. This project will alleviate failing septic tanks which degrade water quality. This project will also encourage residential development. Currently, zoning only allows subdivisions of small parcels where municipal sewer and water is available.

Project Need:

This project is part of the City's effort to comply with State requirements to provide safe drinking water and sanitary sewer to areas which have known septic tank failures. This will also eliminate pollution from endangering the ground water.

COMMUNITY CONTACT

Name: Public Works Superintendent

Address: P.O. Box 531
Wrangell 99929

Phone Number: (907) 874-3904

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FY 00 CAPITAL BUDGET REQUEST
Municipal Matching Grants Program**

PROJECT COSTS:

Administration:	\$15,000
Engineer/Inspect:	\$35,000
Construction:	\$50,000
Equipment:	\$100,000
Other:	
Total:	\$200,000

Community: Yakutat

Project Title: Water and Sewer Service Improvement

Grant Amount Requested: \$ 200,000

Election District:

Project Priority: One

Population Served: 850

Project Description:

Review, identify and prioritize water and sewer needs and problems to:

- A. replace aging and leaking storage tanks
- B. replace and relocate aging and unsafe water and sewer lines and increase capacity to growth areas
- C. reduce potential for unsafe water supply by replacing old water tanks (wooden) with new approved modern ones
- D. provide engineering plans for above (citywide upgrade)

Project Need:

Without this project, the "squeaky wheel" piecemeal approach would be used to correct water and sewer problems. Growth areas where water only is planned would become part of a comprehensive water and sewer expansion. Main needs are (1) age of present system and (2) rapid growth is stressing system.

COMMUNITY CONTACT

Name: City Manager

Address: Box 160
Yakutat 99689

Phone Number: (907) 784-3323

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SEN FIN

VILLAGE SAFE WATER

FY2000 Community Grant Requests

- **Water Supply**
- **Solid Waste**
- **Wastewater Treatment**



Alaska Department of Environmental Conservation

Prepared by the Division of Facility Construction and Operation - January, 1999

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- **Services and Benefits**
- **Funding Sources**
- **Community Projects**



**Alaska Department of Environmental Conservation
Prepared by the Division of Facility Construction and Operation - January, 1999**

VILLAGE SAFE WATER

INTRODUCTION

This report presents proposed capital projects to be funded through the Village Safe Water program in FY00.

Small communities across the State submitted FY00 proposals for 144 water, sewer and solid waste projects representing approximately \$125 million in need. Of that total, the Administration's capital budget, along with funding from the U.S.D.A.-Rural Development, would fund the 71 highest priority projects at a total cost of \$62 million.

144 projects representing approximately \$125 million in CIP requests for FY00.

71 community projects proposed for funding at a cost of \$62 million.

VILLAGE SAFE WATER

VSW PROGRAM TENETS

Grants will be administered in accordance with the statutory and programmatic tenets of the Village Safe Water program:

- Eligible communities are:
 - first class cities with populations less than 600 persons;
 - second class cities; and
 - unincorporated communities with populations between 25 and 600 persons.
- Grants are awarded using a priority ranking system that favors projects addressing serious health threats.
- All (100 percent of) project planning, design and construction costs are eligible for grants.
- Once a sanitation system is constructed – be it a landfill, drinking water system or wastewater system – it becomes the property of the community. Operation and maintenance of the facilities are local responsibilities.
- As a prerequisite to receiving grant funding, communities must demonstrate that they have the basic capacity to operate and maintain the system.
- Construction must be preceded by a planning/engineering feasibility study that sets out options for a community's consideration, and identifies what the ultimate costs of each option to the users will be.

Requests are ranked by public health need

Operation and maintenance of the facilities are local responsibilities

Communities demonstrate they have basic capacity to operate and maintain systems

VILLAGE SAFE WATER

SERVICES AND BENEFITS

- **Project Planning.** Through preparation of feasibility studies, VSW assists communities in reviewing the alternatives available for solving their sanitation problems, the capital costs of alternatives, and the operation and maintenance expenses the community will have to pay after the project is completed. Experience has shown that when communities have this basic information, they make sound decisions on the type of service best suited to their needs and means.
- **Technical Assistance.** VSW provides technical assistance to villages during all phases of a project including planning, design, and construction. Because VSW staff has aptitude and training in the area of sanitation engineering, local interests are protected. VSW ensures that villages receive what is paid for, and that the project is consistent with local needs.
- **Varying Construction Techniques.** A variety of construction methods can be used. Force account construction practices are popular in small, remote communities. VSW provides assistance with expediting materials, supervising construction and inspecting projects. If a community opts to perform all or part of a project through professional contractors, VSW staff helps draft the contract, select a contractor, and oversee the contract to assure the community is getting what it expects.
- **Agreement Negotiations.** VSW staff are available to assist communities negotiating user fee agreements with large water users (such as schools) or agreements for waste heat with the Alaska Village Electric Cooperative.
- **Financial Accountability.** Financial management is provided by VSW through a contract with a CPA firm. This assures timely payment of bills and payrolls, fulfillment of IRS requirements and final project accountability of all expenses.

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VILLAGE SAFE WATER

VSW PROGRAM TENETS

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- Construction must be preceded by a planning/engineering feasibility study that sets out options for a community's consideration, and identifies what the ultimate costs of each option to the users will be.

Requests are ranked by public health need

Operation and maintenance of the facilities are local responsibilities

Communities demonstrate they have basic capacity to operate and maintain systems

- Communities must play an integral role in the planning and decision making. Communities must also demonstrate a commitment to developing the project and to make it work upon completion – one form of which is a resolution passed by the governing body.
- VSW engineers serve as the community engineers providing assistance with securing consultants and contractors, reviewing and providing guidance on project design, generally assisting communities in managing the projects, and guarding the state and federal investment in the project.
- The program seeks to maximize the use of private companies and local resources – as opposed to agency personnel – in accomplishing its objectives.

Communities must play an integral role in system planning and development

VSW engineers serve as the community engineers

Maximize the use of private companies and local resources

VILLAGE SAFE WATER

SERVICES AND BENEFITS

- **Project Planning.** Through preparation of feasibility studies, VSW assists communities in reviewing the alternatives available for solving their sanitation problems, the capital costs of alternatives, and the operation and maintenance expenses the community will have to pay after the project is completed. Experience has shown that when communities have this basic information, they make sound decisions on the type of service best suited to their needs and means.
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- **Agreement Negotiations.** VSW staff are available to assist communities negotiating user fee agreements with large water users (such as schools) or agreements for waste heat with the Alaska Village Electric Cooperative.
- **Financial Accountability.** Financial management is provided by VSW through a contract with a CPA firm. This assures timely payment of bills and payrolls, fulfillment of IRS requirements and final project accountability of all expenses.

VILLAGE SAFE WATER

FUNDING SOURCES

Village Safe Water is flexible in its approach to financing sanitation needs. The program has been successful in capturing federal dollars through a variety of sources including the U. S. Indian Health Service, U.S.D.A.-Rural Development, the U.S. Environmental Protection Agency, the U.S. Department of Housing and Urban Development, and the U.S. Department of Transportation via the state Department of Transportation and Public Facilities.

Joint ventures pool financial resources. Effective working agreements have been developed and implemented between Village Safe Water and various federal agencies to allow completion of basic sanitation services in the villages.

State appropriations are used to capture federal dollars from PHS, USDA-RD, EPA, HUD, and DOTPF.

Additional Information: More detailed information on these projects is available by contacting Dan Easton, PE, Director of Facility Construction and Operation, at (907) 465-5135.

COMMUNITY PROJECTS

- **WATER SUPPLY**
- **SOLID WASTE**
- **WASTEWATER TREATMENT**



Alaska Department of Environmental Conservation
Prepared by the Division of Facility Construction and Operation - January, 1999

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**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 38
Local Budget Priority: One
Population Served: 600

Community: Akiachak Native Community
Project Title: Water and Sewer Improvement
Appropriation Requested: \$2,000,000

Project Description:

The new water and sewer improvement project is funded and proceeding, the new underwater well source, the new site for the new water treatment plant and the new dirt road to the new sewer lagoon are prepared and are complete. This grant proposal will allow funds to procure the materials and the equipment, arrange logistics and direct local crews to construct the improvements. Work proposed for 1999 includes construction of an iron/manganese removal water treatment plant, equipment storage building, water storage tank, powerline extension, waste heat improvements, a water loop from the water treatment plant to the existing washeteria, force main and sewage lagoon improvements. Design will also continue on the water distribution and sewage collection system. The requested funds will allow construction of collection and distribution system improvements and installation of plumbing in 2000.

Project Need:

The Akiachak Native Community is a high risk village for Hepatitis B and meningitis viruses, infecting the young and old residents of the village. The existence of Hepatitis B and meningitis and susceptibility of the residents is due in part to inadequate human waste system. The Akiachak IRA Council and the Medical Director for the Yukon-Kuskokwim Health Corporation determined that the new sewer and water system for Akiachak Native Community will address and eliminate the Hepatitis B and meningitis viruses.

Cost Estimated By:

Chuck Eggener, P. E.

CE2 Engineers

President

349-1010

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Akiachak Native Community

Water and Sewer Improvement

PLANNING COMPLETED

Plans & Specifications: Yes
Feasibility Plan: Yes
Comprehensive Study: Yes
Is this a phased project: Yes

PROJECT COSTS

Administration:
Engineer/Inspect: \$250,000
Construction: \$1,250,000
Equipment: \$500,000
Other:
Total: \$2,000,000

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Yes

Will federal money be used: Yes
Amount: 1,230,000 1,600,000
Source: Indian IHS and
 Health DEC
 Service
Received: 1996 1995

**OPERATION & MAINTENANCE
COMMITMENT**

Trained Operator: Yes
Certified Primary Operator: Yes
Certified Backup Operator: Yes
Drinking Water Compliance: Yes
O & M Costs Identified: No
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

George Peter
P. O. Box 70
Akiachak 99551
907-825-4626

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 39
Local Budget Priority: One
Population Served: 320

Community: Akiak, City of
Project Title: Water and Sewer project, Ph V
Appropriation Requested: \$978,000

Project Description:

1. Piped water services to 26 native homes from loop 1 water main.
2. Septic tank/drainfield systems repaired or replaced for 22 homes on loop 1.
3. Abandonment of individual wells for 26 homes on loop 1.

Project Need:

This project is needed to address the immediate health hazard of sewage contamination to individual wells. It will eliminate the risk of disease associated with fecal contamination of drinking water by providing water service to 26 homes and the sanitary closure of existing shallow individual wells. The shallow individual wells periodically go dry so that homeowners are forced to haul water. The consequence of not doing this project is the continued risk of sewage contamination to drinking water sources.

Cost Estimated By:

Dan V. Boccia

IHS

729-3552

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Akiak, City of

Water and Sewer project, Ph V

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: Yes

Feasibility Plan:

Comprehensive Study:

Is this a phased project: Yes

Administration: \$19,560

Engineer/Inspect: \$48,900

Construction: \$841,080

Equipment: \$68,460

Other: \$0

Total: \$978,000

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Will federal money be used: Yes

Amount: 182,000 805,000

Source: IHS IHS

Date

Received: FY94 FY96

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes

Certified Primary Operator: Yes

Certified Backup Operator: No

Drinking Water Compliance: Yes

O & M Costs Identified:

User Fee Ordinance Adopted: No

Sammy G. Jackson, I

P. O. Box 52127

Akiak 99552

765-7112

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 40
Local Budget Priority: One
Population Served: 100

Community: Akutan, City of
Project Title: Surface Water Treatment Upgrade
Appropriation Requested: \$1,502,500

Project Description:

This project will upgrade the existing water system to bring our drinking water into compliance with State of Alaska Surface Water Treatment Rule. A new 125,000 gallon water storage tank will be constructed to give the water longer exposure time, and the water plant will be converted to a cartridge filtration system.

Project Need:

Our water is currently treated, but the amount of time it is exposed to the chemicals is very limited due to the small tank size. Current conditions are sufficiently severe that a disease event could occur but has not been reported.

Cost Estimated By:

Pierre Costello

IHS

729-3500, Ext. 3534

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Akutan, City of

Surface Water Treatment Upgrade

PLANNING COMPLETED

Plans & Specifications: Yes
Feasibility Plan: Yes
Comprehensive Study: No
Is this a phased project: Yes

PROJECT COSTS

Administration: \$154,100
Engineer/Inspect: \$64,200
Construction: \$431,700
Equipment: \$685,000
Other: \$167,500
Total: \$1,502,500

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Yes

Will federal money be used: No
Amount:
Source:
Date
Received:

**OPERATION & MAINTENANCE
COMMITMENT**

Trained Operator: Yes
Certified Primary Operator: No
Certified Backup Operator: No
Drinking Water Compliance: Yes
O & M Costs Identified:
User Fee Ordinance Adopted: yes

COMMUNITY CONTACT

Erika Tritremmel
1600 "A" Street, Suite 103
Anchorage 99501
274-7555

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 38
Local Budget Priority: One
Population Served: 75

Community: Alakanuk, City of
Project Title: Northside Sanitation Improvements
Appropriation Requested: \$1,000,000

Project Description:

The construction of a water and waste water system for the north side of the village of Alakanuk providing service to approximately 75 residents and 13 homes across the river. The project would include the construction of sewer lines including the installation of fire hydrants and basic facilities in each home. The project would include a tie-in line to the main system that is currently being constructed on the south side of Alakanuk.

Project Need:

There are currently both health and pollution hazards existing on the north side of Alakanuk. This has to do with the continued use of "honey buckets" and pits in which to dump those honey buckets. The high water table causes the pits to overflow and pose a health and pollution hazard to not only the north side residents, but to all residents in Alakanuk.

Cost Estimated By:

Kurt Egelhofer

ADEC-VSW

Engineer

269-7601

Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water

Alakanuk, City of

Northside Sanitation Improvements

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: Yes
Feasibility Plan: Yes
Comprehensive Study: Yes
Is this a phased project: Yes

Administration:
Engineer/Inspect:
Construction: \$1,000,000
Equipment:
Other:
Total: \$1,000,000

Community Resolution passed
requesting money through VSW and
indicating a priority?

Yes

Will federal money be used: No

Amount:

Source:

Date

Received:

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes
Certified Primary Operator: Yes
Certified Backup Operator: Yes
Drinking Water Compliance: Yes
O & M Costs Identified:
User Fee Ordinance Adopted: Yes

Raymond J. Oney

P. O. Box 167

Alakanuk

99554

238-3313

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 39
Local Budget Priority: One
Population Served: 240

Community: Aleknagik, City of
Project Title: N. Shore Liquid Waste Stabilization Facility & Landfill Relocation
Appropriation Requested: \$323,000

Project Description:

Construct a liquid waste stabilization and disposal facility (sludge lagoon system) with an impermeable liner. The lined facility will be connected with decant and overflow piping to a treated effluent percolation cell. The entire liquid waste facility will be enclosed by a chain link fence. A new 20 acre solid waste disposal site will be constructed adjacent to the liquid waste facilities. The solid waste site will be trenched for burial of compacted solid waste materials. Perforated steel hoppers will be located at the site for community residents to deposit their bagged household wastes. Hoppers will serve as burn bins, and can pivot on bases for ease of emptying into burial trenches. A 12' x 201' roofed area will be constructed for temporary storage of non-bury materials. These facilities will be located at the end of a 1.5 mile gravelled access road extension currently under design by the ADOTPF .

Project Need:

All homes in North Shore Aleknagik have septic tank waste water systems which dispose of effluent into drain fields or a sewer system draining to a percolation lagoon located on the shore of Lake Aleknagik within the city residential area. Each septic tank requires periodic sludge pumping and disposal. Currently pumped sludge is either dumped into the percolation lagoon or into shallow trenches dug at the N. Shore garbage dump. The dump is located about 1,000 feet from the end of the airport runway and violates FAA runway clearance requirements. The dump is also located about 2,00 feet from 11 new HUD/BBHA homes constructed in '95-96. Each home has a drinking water well. BBAHC field sanitarian expressed concerns for ground water contamination near these homes.

Cost Estimated By:

Brad Rea, P.E.

USPHS-Anchorage

729-3543

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Aleknagik, City of

N. Shore Liquid Waste Stabilization
Facility & Landfill Relocation

PLANNING COMPLETED

Plans & Specifications: No
Feasibility Plan: Yes
Comprehensive Study: NO
Is this a phased project: Yes

PROJECT COSTS

Administration:	\$13,800
Engineer/Inspect:	\$44,200
Construction:	\$232,000
Equipment:	\$8,000
Other:	\$36,000
Total:	\$334,000

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Yes

Will federal money be used: Yes
Amount: 1,250,000
Source: AKDOT&PF
(ISTEA)
Date
Received: Fy99

**OPERATION & MAINTENANCE
COMMITMENT**

Trained Operator: Yes
Certified Primary Operator: Yes
Certified Backup Operator:
Drinking Water Compliance: No
O & M Costs Identified:
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Carolyn Smith
P.O.Box 33; Lake Street
Aleknagik **99555-0033**
842-5953 Fax: 842-2107

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 36
Local Budget Priority: One
Population Served: 205

Community: Allakaket, City of
Project Title: Pilot Water and Sewer Haul System
Appropriation Requested: \$450,000

Project Description:

Phase I of water and sewer development has been fully funded and is underway. This includes a new water plan, washeteria, new lagoon, water well and water storage tank. Phase II, (this request), will provide a water and sewer haul service to ten homes on a pilot basis. After evaluation, an expanded haul system may provide service to the whole community.

Project Need:

The entire community has no sewer or running water. Most people use honey buckets or outhouses, which is a health hazard. Especially when they use honey buckets in their homes and haul water in open containers. At the new sub-division, 15 homes were installed with 150 gallon tanks under the outhouses. These tanks are now filled. This causes a very strong, unpleasant odor. We have residents complaining to our city office, but we don't have anything to do about this.

Cost Estimated By:

Tom Moeller

IHS

729-3549

Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water

Allakaket, City of

Pilot Water and Sewer Haul System

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications:

Feasibility Plan:

Comprehensive Study: Yes

Is this a phased project: Yes

Administration:

Engineer/Inspect: \$100,000

Construction: \$350,000

Equipment:

Other:

Total: \$450,000

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Yes

Will federal money be used: Yes

Amount: 1,100

Source: IHS

Date

Received: FY99

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes

Certified Primary Operator: Yes

Certified Backup Operator: No

Drinking Water Compliance: Yes

O & M Costs Identified: Yes

User Fee Ordinance Adopted: No

Delores Saunders

P. O. Box 30

Allakaket 99720

968-2241, Fax: 968-2251

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 37
Local Budget Priority: One
Population Served: 301

Community: Anaktuvuk Pass (NSB)
Project Title: Service Connections
Appropriation Requested: \$741,000

Project Description:

Project will provide plumbing upgrades to residences to allow hookup to water and sewer distribution and collection systems under development.

- A. Adding plumbing and fixtures to residences without these services.
- B. Upgrading vent, waste and water lines to code.
- C. Adding prefabricated toilet room modules to residences that cannot accommodate conventional toilets and sinks.
- D. Other related improvements necessary to accomplish plumbing upgrades.

Project Need:

An insufficient number of residences possess adequate plumbing facilities to hook up and utilize the water and sewer systems being installed. This places the new systems at risk, crippling the hydraulic and thermal integrity of the sewer mains. Currently many plumbing drains discharge gray water directly to the ground beneath the dwellings, collecting in pools which children play in, or is left to be absorbed or frozen. Most honey bucket users are without adequate bathing facilities or hand sinks. Water is often reused for handwashing several times by family members, promoting conditions for spread of water born disease. Honey bucket trucks often leak refuse on the roads as they collect buckets from homes, further causing health risks. Project funding would allow a managed plumbing upgrade program to occur, allowing the collection/distribution system startups in a scheduled and controlled basis.

Cost Estimated By:

Jeff Baker

North Slope Borough, CIPM

561-6605

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Anaktuvuk Pass (NSB)

Service Connections

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: Yes	Administration: \$26,230
Feasibility Plan: Yes	Engineer/Inspect: \$74,270
Comprehensive Study: Yes	Construction: \$610,000
Is this a phased project: Yes	Equipment:
	Other: \$30,500
	Total: \$741,000

Community Resolution passed requesting money through VSW and indicating a priority? Yes	Will federal money be used: No
	Amount:
	Source:
	Date
	Received:

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes	Dorothy Hopson
Certified Primary Operator: Yes	P.O. Box 69
Certified Backup Operator: Yes	Barrow 99723
Drinking Water Compliance: Yes	852-0200
O & M Costs Identified:	
User Fee Ordinance Adopted: Yes	

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 7
Local Budget Priority: One
Population Served: 60

Community: Anchor Point Safe Water Corp.
Project Title: Water System Expansion Project
Appropriation Requested: \$1,200,000

Project Description:

This project will design, obtain site control, establish permits, and then construct new water mains, a second water well, pump house, and service connections to various homes, businesses, and the school along the Sterling Highway in Anchor Point. The existing water system will be tied into the expansion system, thus allowing for more homes and businesses to connect to a safe, potable, water source.

Project Need:

Some homes and businesses have well water contaminated with benzene. Other structures have well water high in iron and manganese. The school has water high in lead and copper. This project will supply water to the benzene contaminated areas, the school, and those lots along the Sterling Highway that have water high in iron and manganese. The lead problem at the school and the benzene in the ground water supply pose a significant health threat to the residences.

Cost Estimated By:

Mike Wolski, P.E.

ADEC-VSW

Engineer

269-7603

Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water

Anchor Point Safe Water Corp.

Water System Expansion Project

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications:

Feasibility Plan: Yes

Comprehensive Study: Yes

Is this a phased project: Yes

Administration: \$5,000

Engineer/Inspect: \$155,000

Construction: \$1,000,000

Equipment: \$20,000

Other: \$20,000

Total: \$1,200,000

Community Resolution passed
requesting money through VSW and
indicating a priority?

Yes

Will federal money be used: No

Amount:

Source:

Date

Received:

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes

Certified Primary Operator: Yes

Certified Backup Operator: Yes

Drinking Water Compliance: Yes

O & M Costs Identified:

User Fee Ordinance Adopted: Yes

Bob Clutts

P. O. Box 154

Anchor Point 99556

235-8532, Fax 235-2296

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 5
Local Budget Priority: One
Population Served: 603

Community: Angoon, City of
Project Title: Water Storage Tank, Septic Sludge Lagoon
Appropriation Requested: \$782,000

Project Description:

This project will complete the following:

- a. 500,000 gallon bolted steel water storage tank;
- b. reinforced concrete water tank foundation;
- c. ductile iron pipe water mains to connect proposed tank;
- d. on-line chlorine analyzer in existing water plant.;
- e. two-cell septic system sludge treatment and disposal lagoon'
- f. clean up existing solid waste site;
- g. operation and maintenance supplies and equipment for the above listed items.

Project Need:

1. Public health hazard has been created by inadequate chlorine contact time in potable water supply to homes being developed along the road between the main town and the water plant.
2. A public health hazard was created by the lack of proper septic sludge treatment and disposal facility. The existing sludge pit will overflow into the solid waste site and is therefore not able to receive all the sludge from the community septic tank. Accumulating sludge from the community may cause solids to enter the outfall.

Cost Estimated By:

Andy Meltzer, P.E.

US PHS

Engineer

729-3544

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Angoon, City of

Water Storage Tank, Septic Sludge
Lagoon

PLANNING COMPLETED

Plans & Specifications: Yes
Feasibility Plan: Yes
Comprehensive Study: No
Is this a phased project: Yes

PROJECT COSTS

Administration:	\$16,000
Engineer/Inspect:	\$40,000
Construction:	\$210,000
Equipment:	\$430,000
Other:	\$86,000
Total:	\$782,000

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Yes

Will federal money be used: Yes
Amount: 18,000
Source: Oil Filter
Sales
Date
Received: 1998

**OPERATION & MAINTENANCE
COMMITMENT**

Trained Operator: Yes
Certified Primary Operator: Yes
Certified Backup Operator: Yes
Drinking Water Compliance: Yes
O & M Costs Identified: Yes
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Maxine Thompson
P. O. Box 189
Angoon 99820
788-3653, Fax: 78-3821

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 36
Local Budget Priority: One
Population Served: 576

Community: Aniak, City of
Project Title: Lift Station Upgrade
Appropriation Requested: \$75,000

Project Description:

Repair lift stations, raise level of 4 lift stations above flood stage, rebuild control panels on 2 lift stations.

Project Need:

The existing lift stations do not meet code. This project will protect lift stations from flooding.

Cost Estimated By:

Paul Gabbert, P. E.

ADEC-VSW

Engineer

269-7608

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Aniak, City of

Lift Station Upgrade

PLANNING COMPLETED

Plans & Specifications: No
Feasibility Plan: No
Comprehensive Study: No
Is this a phased project: Yes

PROJECT COSTS

Administration:
Engineer/Inspect: \$15,000
Construction: \$60,000
Equipment:
Other:
Total: \$75,000

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Yes

Will federal money be used: No
Amount:
Source:
**Date
Received:**

**OPERATION & MAINTENANCE
COMMITMENT**

Trained Operator: Yes
Certified Primary Operator: Yes
Certified Backup Operator: No
Drinking Water Compliance: No
O & M Costs Identified:
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Herman W. Morgan
P. O. Box 189
Aniak 99557
675-4481

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 36
Local Budget Priority: Yes
Population Served: 100

Community: Anvik, City of
Project Title: Water and Sewer Project
Appropriation Requested: \$438,000

Project Description:

The continuation of the Anvik Water/Sewer project will provide sanitation services to residential homes not previously served, or left incomplete by the water and sewer project executed by IHS and the City of Anvik. The project scope will include, where feasible, in-house plumbing (13 homes), septic system installation or upgrade (16 homes), connection to community sewer main (3 homes), drilling of new water wells (4 homes and (ASD Blackwell School). Additionally, new fencing and gates at the community solid waste landfill and construction of a centralized waste oil collection and disposal site will correct health/pollution/environmental concerns.

Project Need:

- A. Sanitary water supply and waste water disposal are of utmost importance to prevent disease. This project will eliminate residents' need to haul drinking water and waste in buckets. Additionally the water well supplying Blackwell School was of poor quality and yield and now has failed completely. A new well is needed for the only school in the village to continue functioning.
- B. The existing fencing at the solid waste landfill is 4 ft. high chicken wire which is continually knocked down by bears, moose and drifting snow. This allows loose debris to be blown outside the landfill perimeter causing environmental and health concerns.

Cost Estimated By:

Michael Grundberg
City of Anvik
Mayor
663-6328

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Anvik, City of

Water and Sewer Project

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: Yes	Administration: \$36,500
Feasibility Plan: Yes	Engineer/Inspect: \$36,500
Comprehensive Study: Yes	Construction: \$273,000
Is this a phased project: Yes	Equipment: \$88,000
	Other: \$4,000
	Total: \$438,000

Community Resolution passed requesting money through VSW and indicating a priority? Yes	Will federal money be used: No Amount: Source: Date Received:
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**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes	Michael Grundberg
Certified Primary Operator: Yes	P. O. Box 50
Certified Backup Operator: No	Anvik 99558
Drinking Water Compliance: Yes	663-6328
O & M Costs Identified:	
User Fee Ordinance Adopted: Yes	

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 36
Local Budget Priority: Two
Population Served: 130

Community: Arctic Village Council
Project Title: Landfill Feasibility Study
Appropriation Requested: \$50,000

Project Description:

The Arctic Village Council is seeking to relocate the existing landfill from its current site adjacent to the regional airport, to a more central location for the village and meet the separation requirement from the airport. We request funding to conduct a feasibility study to determine the most economical and best type of solid waste disposal options available, and find a site compatible with the recommended option. Future requests are expected to be made for the funding to design and construct the option recommended by the study.

Project Need:

This project is needed because the existing landfill is located adjacent to the Arctic Village airport. The buffer requirements for airport safety are not sufficient. The FAA and DOTPF representatives agreed that the landfill is too close to the end of the runway. If the landfill is not relocated it will continue to threaten air safety practices at Arctic Village. The existing landfill is also located adjacent to a lake and the Chandalar River. The landfill does not have any barrier to prevent leachate from entering the ground water, surrounding lakes, and the Chandalar River.

Cost Estimated By:

Steven R. Pannone, P. E.

ASCG, Inc.

267-6267

**Department of Environmental
 Conservation
 FY 98 Capital Budget Request
 Village Safe Water**

Arctic Village Council

Landfill Feasibility Study

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: No
Feasibility Plan: No
Comprehensive Study: Yes
Is this a phased project: Yes

Administration: \$5,000
Engineer/Inspect: \$45,000
Construction:
Equipment:
Other:
Total: \$50,000

**Community Resolution passed
 requesting money through VSW and
 indicating a priority?**

 Yes

Will federal money be used: No
Amount:
Source:
Date
Received:

**OPERATION & MAINTENANCE
 COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes
Certified Primary Operator: Yes
Certified Backup Operator: No
Drinking Water Compliance: Yes
O & M Costs Identified: Yes
User Fee Ordinance Adopted: Yes

Raymond Tritt

P. O. Box 22059

Arctic Village 99722

587-5328

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 40
Local Budget Priority: One
Population Served: 115

Community: Atka, City of
Project Title: Sanitation Improvement Study
Appropriation Requested: \$155,000

Project Description:

This project will complete the system needs assessments, cost and materials estimate, operations and maintenance estimates and preliminary design and engineering for the water and sewer system in the Aleutian Islands community of Atka. This study will enable the community to pursue funding to remove deficiencies and expand the system to meet the needs of the community.

Project Need:

PHS installed the existing system in 1978 to the older part of town and extended in 1982 to a new housing area. 1. The wood reservoir dam is deteriorating. Collapsing embankments cause soil and silts to migrate into the system affecting treatment equipment. In August, 1998 the dam suffered additional damage from a period of extended rain requiring temporary repairs. 2. Water storage and treatment are insufficient to support the needs of the seafood processing plant, the community and fight fires. 3. Corroded and leaking galvanized metal connections from WWII cause water loss and poor pressure to residences in the old village. 4. There is no septic system in the old village. Sewage is not treated prior to discharge into the bay by outfall lines. Facilities are 20 years old and deteriorating. A health and safety hazard exists in that households may be getting untreated water due to insufficient storage capacity for treated water.

Cost Estimated By:

Lynn Marino, P. E.

ADEC-VSW

Engineer

269-7602

Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water

Atka, City of

Sanitation Improvement Study

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications:

Feasibility Plan:

Comprehensive Study:

Is this a phased project: Yes

Administration:

Engineer/Inspect: \$150,000

Construction:

Equipment:

Other: \$5,000

Total: \$155,000

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Yes

Will federal money be used: No

Amount:

Source:

Date

Received:

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes

Certified Primary Operator: No

Certified Backup Operator: No

Drinking Water Compliance: Yes

O & M Costs Identified:

User Fee Ordinance Adopted: No

Julie Dirks

P.O. Box 765

Unalaska 99685

581-6226

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 39

Local Budget Priority:

Population Served: 260

Community: Atmautluak, Village of

Project Title: Sanitation Facilities Master Plan

Appropriation Requested: \$150,000

Project Description:

The Facilities Master Plan will establish a plan based on a comprehensive engineering evaluation of future water, sewer, and solid waste needs and alternative approaches toward meeting these needs. The plan will be prepared by an engineering firm hired by the village and will develop a phased approach toward funding and construction requirements over a 20 year period. Atmautluak's need for a master plan is especially noteworthy due to the fact that it currently has significant sanitation needs and lacks piped water and sewage disposal service as well as an ADEC permitted landfill.

Project Need:

The community lacks a comprehensive plan toward developing sanitation facilities. The current water haul and honey bucket sewage systems provide only marginal levels of sanitation service to the village. The honey bucket haul system poses inherent health risks to the community through the spread of human waste pollution during disposal. The existing solid waste site is at capacity and overflowing and poses both a health risk and pollution hazard to the community. Without developing a master plan, inefficient use of resources to develop the community's infrastructure and sanitation facilities may likely occur.

Cost Estimated By:

Denman Ondelacy

US PHS

729-3530

**Department of Environmental
 Conservation
 FY 98 Capital Budget Request
 Village Safe Water**

Atmautluak, Village of

Sanitation Facilities Master Plan

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: No
Feasibility Plan: No
Comprehensive Study: No
Is this a phased project: Yes

Administration:
Engineer/Inspect: \$150,000
Construction:
Equipment:
Other:
Total: \$150,000

**Community Resolution passed
 requesting money through VSW and
 indicating a priority?**

 No

Will federal money be used: No
Amount:
Source:
Date
Received:

**OPERATION & MAINTENANCE
 COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes
Certified Primary Operator: No
Certified Backup Operator: No
Drinking Water Compliance: Yes
O & M Costs Identified: No
User Fee Ordinance Adopted: No

Henry Stone
General Delivery
Atmautluak 99559
553-5610

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 37
Local Budget Priority: One
Population Served: 235

Community: Atkasuk, City of & NSB
Project Title: Service Connections
Appropriation Requested: \$753,000

Project Description:

Project will provide plumbing upgrades to residences to allow hookup to water and sewer distribution and collection systems under development.

- A. Adding plumbing and fixtures to residences without these services.
- B. Upgrading vent, waste and water lines to code.
- C. Adding prefabricated toilet room modules to residences that cannot accommodate conventional toilets and sinks.
- D. Other related improvements necessary to accomplish plumbing upgrades.

Project Need:

An insufficient number of residences possess adequate plumbing facilities to hook up and utilize the water and sewer systems being installed. This places the new systems at risk, crippling the hydraulic and thermal integrity of the sewer mains. Currently many plumbing drains discharge gray water directly to the ground beneath the dwellings, collecting in pools which children play in, or is left to be absorbed or frozen. Most honey bucket users are without adequate bathing facilities or hand sinks. Water is often reused for handwashing several times by family members, promoting conditions for spread of water born disease. Honey bucket trucks often leak refuse on the roads as they collect buckets from homes, further causing health risks. Project funding would allow a managed plumbing upgrade program to occur, allowing the collection/distribution system startups in a scheduled and controlled basis.

Cost Estimated By:

Jeff Baker

NSB CIPM - Anchorage Office

561-6605

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Atqasuk, City of & NSB

Service Connections

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: Yes

Feasibility Plan:

Comprehensive Study:

Is this a phased project: Yes

Administration: \$26,660

Engineer/Inspect: \$75,080

Construction: \$620,000

Equipment:

Other: \$31,260

Total: \$753,000

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Yes

Will federal money be used: No

Amount:

Source:

Date

Received:

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes

Certified Primary Operator: Yes

Certified Backup Operator: Yes

Drinking Water Compliance: Yes

O & M Costs Identified:

User Fee Ordinance Adopted: Yes

Herman Kignak, Sr.

P.O.Box 69

Barrow

99723

852-2611

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 36
Local Budget Priority: One
Population Served: 125

Community: Beaver Village Council
Project Title: Washeteria/Water Treatment Plant Upgrade
Appropriation Requested: \$318,700

Project Description:

The Beaver Village Council is seeking to improve and expand the community washeteria.. The washeteria mechanical room, treatment plant and storage facilities were sized to meet current demand during the rehabilitation in 1990. The population has increased by 25 percent since then and facilities need upgrades to meet demands and provide a higher quality finished water. product. The current water plant is sized to treat 10 gpm while the new water source can now provide 20-25 gpm.. More treatment and storage capacity is needed to meet growing local demand . Current water use is limited by the high iron content of the treated water. A federal grant is currently underway to improve and expand the washeteria public room laundry and shower facilities. This funding request to improve the washeteria mechanical and water systems is in support of the current federal project.

Project Need:

This project is needed to supplement the washeteria public room services expansion and ADA access upgrades Current mechanical and water systems are not sufficient to meet new requirements. The building foundation is currently sagging under the load of existing facilities. Deflections in the floor of up to two inches have been measured in the mechanical room. An analysis of the existing foundation with follow-on repairs and improvements or the relocation of the mechanical and/or water treatment system components will be required.

Cost Estimated By:

Steven M. Weaver, PE

ASCG, Inc.

267-6388

**Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water**

Beaver Village Council

Washeteria/Water Treatment Plant
Upgrade

PLANNING COMPLETED

Plans & Specifications: Yes
Feasibility Plan: No
Comprehensive Study: Yes
Is this a phased project: Yes

PROJECT COSTS

Administration:	\$5,000
Engineer/Inspect:	\$45,000
Construction:	\$268,700
Equipment:	
Other:	
Total:	\$318,700

**Community Resolution passed
requesting money through VSW and
indicating a priority?**

Yes

Will federal money be used: Yes

Amount: 375,000

Source: PHS

**Date
Received:** 1996

**OPERATION & MAINTENANCE
COMMITMENT**

Trained Operator: Yes
Certified Primary Operator: Yes
Certified Backup Operator: Yes
Drinking Water Compliance: Yes
O & M Costs Identified: Yes
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Bob Winer

P. O. Box 24029

Beaver **99724**

628-6123

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 39
Local Budget Priority: One
Population Served: 5,463

Community: Bethel, City of
Project Title: Water and Wastewater
Improvements - Phase II
Appropriation Requested: \$3,000,000

Project Description:

Construct the eastern half of Area 1-A piped water and sewer lines in accordance with COB Master Water and Sanitary Plan of July 9, 1996. Construct the northern half of Area 1-B water and sewer lines and convert honey bucket services to hauled services in Area 1-C and E of the Master Plan.

Project Need:

This project is needed to satisfy the requirement of the City Council and citizens to have the City provide safe and sanitary water, sewer and solid waste systems to ensure a healthy living environment.

Cost Estimated By:

Stuart N. Robinson

City of Bethel

543-2297

Department of Environmental
Conservation
FY 98 Capital Budget Request
Village Safe Water

Bethel, City of

Water and Wastewater Improvements -
Phase II

PLANNING COMPLETED

Plans & Specifications: Yes
Feasibility Plan: Yes
Comprehensive Study: Yes
Is this a phased project: Yes

PROJECT COSTS

Administration:	\$480,000
Engineer/Inspect:	\$150,000
Construction:	\$630,000
Equipment:	\$1,050,000
Other:	\$690,000
Total:	\$3,000,000

Community Resolution passed
requesting money through VSW and
indicating a priority?

Yes

Will federal money be used: Yes
Amount: 9,000,000
Source: US EPA
Date
Received: 93-98

**OPERATION & MAINTENANCE
COMMITMENT**

Trained Operator: Yes
Certified Primary Operator: Yes
Certified Backup Operator: Yes
Drinking Water Compliance: Yes
O & M Costs Identified: Yes
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Robert Herron
P.O.Box 388
Bethel 99559
543-2297

**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 25

Local Budget Priority:

Population Served:

Community: Birch Creek (Denduu Tribal Cncl.)

Project Title: Water Stor. Tank, Sewage Lift Sta.,
Water Plant Upgrades, Gen. Bldg.

Appropriation Requested: \$1,656,000

Project Description:

This project will fund:

1. 150,000 gallon bolted steel, insulated water tank,
2. Wet well/dry well duplex suction lift station for school and community hall
3. 300 ft long sewage force main.
4. Gravity sewer service lines for school and community hall.
5. Water treatment plant upgrades to comply with SWTR.
6. New generator building to allow relocation of existing generators from existing WTP to create room for SWTR upgrades at the WTP.

Project Need:

The existing WTP was built in 1977 with upgrades during 1987. The existing WTP does not comply with the SWTR. Community generators were installed into the WTP around 1980. The generators must be removed to create room for SWTR upgrades. The school and the community hall use an undersized drain field on poor soils that was built around 1980. The proposed lift station will route sewage to the new lagoon which is presently under construction.

Cost Estimated By:

Andy Meltzer, P.E.

US PHS

729-3544