

ALASKA LEGISLATURE

2057

HOUSE and SENATE FINANCE COMMITTEE FILES, 1999 - 2000

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 39
Local Budget Priority: Yes
Population Served: 368

Community: Kongiganak, Native Village of
Project Title: Washeteria Construction - Phase IIB
Appropriation Requested: \$1,300,000

Project Description:

This project will construct a new washeteria building to replace the existing facility, including the water and wastewater treatment equipment.

Project Need:

The existing facility is well over 20 years old and the structural, mechanical, and electrical systems are failing, outdated and inefficient. The laundry facility is located on the 2nd floor and is hard to access and does not meet ADA standards, creating a health hazard to the public. The existing wastewater treatment equipment in the building creates cross contamination with the water system. The facility serves the school building and teachers' housing as well.

Cost Estimated By:

Paul Gabbert, PE,

ADEC-VSW & Summit Consulting Services

2609-7608 and 291-2339

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

Kongiganak, Native Village of

Washeteria Construction - Phase IIB

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$365,000
Engineer/Inspect:	\$800,000
Construction:	\$31,000
Equipment:	\$104,000
Other:	
Total:	\$1,300,000

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

Yes

Will federal money be used:	Yes	
Amount:	300,000	775,000
Source:	USDA-RDA	DOT/ISTEA
Date		
Received:	1998	1998

**OPERATION & MAINTENANCE
COMMITMENT**

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

COMMUNITY CONTACT

Alexie Lewis

P. O. Box 5069

Kongiganak 99559

557-5226

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 38
Local Budget Priority: One
Population Served: 390

Community: Kotlik, City of
Project Title: Water and Sewer Project
Appropriation Requested: \$250,000

Project Description:

This project will provide a waste heat system for the recently funded water and sewer system. Additional bulk fuel will also be provided to support the new water and wastewater system.

Project Need:

The community water and sewer system which the waste heat system will serve will replace the current honey bucket haul system. This has been well documented as a health hazard. If this project is funded the operational costs of the system will be reduced significantly.

Cost Estimated By:

Dennis Wagner

PHS

1-800-560-8637

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

Kotlik, City of

Water and Sewer Project

PLANNING COMPLETED

PROJECT COSTS

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

Administration:
Engineer/Inspect: \$40,000
Construction: \$185,000
Equipment: \$25,000
Other:
Total: \$250,000

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

 Yes

Will federal money be used: Yes
Amount: 1,366,000 1,786,000
Source: PHS PHS
Date
Received: 1996 1997

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

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

Rose Cheemuk

P. O. Box 20268

Kotlik 99620

899-4313, Fax: 899-4826

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 37
Local Budget Priority: One
Population Served: 3200

Community: Kotzebue, City of
Project Title: Water Storage Tank
Appropriation Requested: \$1,500,000

Project Description:

This project will construct a second 1.5 million gallon treated water storage tank adjacent to the existing 1.5 million gallon tank. The new tank will be piped to be used in tandem (series) with the existing tank (normal operational mode). However, the piping will also allow the City to use either tank separately, allowing for maintenance and cleaning.

Project Need:

Our existing water storage tank does not provide for adequate chlorine contact time. The City has received complaints over the years on the color and taste of the water and have blamed various (unconfirmed) ailments on the water. Kotzebue does have a history of hepatitis cases. The existing tank has serious interior corrosion. If the existing tank falls before it is taken off line, the city will be unable to produce potable water until another tank is erected with storage and head to operate the filters. This new tank will provide the additional storage to implement a fire flow system to meet normal standards of flow to prevent loss of life and property. It will also allow for annual or biannual cleaning to eliminate/reduce the chemical sediments from circulating through the water system.

Cost Estimated By:

Harry R. J. Bates, P.E.

Kotzebue, City of

442-3401

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

Kotzebue, City of

Water Storage Tank

PLANNING COMPLETED

Plans & Specifications: Yes

Feasibility Plan:

Comprehensive Study:

Is this a phased project: Yes

PROJECT COSTS

Administration:	\$15,000
Engineer/Inspect:	\$225,000
Construction:	\$1,200,000
Equipment:	
Other:	\$60,000
Total:	\$1,500,000

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

Yes

Will federal money be used: Yes

Amount: 30,000 20,000

Source: PHS FMHA

Date

Received: 1993 1991

**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

Harry Bates

P. O. Box 46

Kotzebue 99752

442-3401

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

Election District: 38
Local Budget Priority: One
Population Served: 296

Community: Koyuk, City of
Project Title: Water and Sewer Project
Appropriation Requested: \$1,300,000

Project Description:

The project will fund replacement of the existing dilapidated water plant and washeteria. A new 64 ft x 32 ft water plant/washeteria upgraded to meet the surface water treatment rule will be installed on a gravel pad foundation. The washeteria will be a smaller scale and provide minimal facilities for those in the community without water and sewer in their homes.

Project Need:

The Koyuk water and sewer project is ongoing with the completion of water distribution and sewer collection facilities for the entire community. The water plant has grown old and dilapidated with serious settlement occurring in the south end of the building and needs replacement. Extensive "bandaid" maintenance on old facilities drains operation and maintenance funds and user revenue which could be better used to fund preventative maintenance of other sanitation facilities. This will eventually result in the deterioration of other facilities, poor water quality and directly affect health and welfare of the community. Recently, test wells were drilled to locate a new water source. Early test pumping results indicate a promising source under the influence of surface water. The water plant will need to be upgraded to meet the surface water treatment rule and protect the community health against surface water contamination.

Cost Estimated By:

P. Costello

ANTHC

729-3534

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

Koyuk, City of

Water and Sewer Project

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$200,000
Engineer/Inspect:	\$20,000
Construction:	\$1,025,000
Equipment:	\$30,000
Other:	\$25,000
Total:	\$1,300,000

**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: Yes
O & M Costs Identified: Yes
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Clifford Charles
P. O. Box 53029
Koyuk **99753**
963-3441

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 36

Local Budget Priority:

Population Served: 150

Community: Kuspuk Sch. Dist.- Crooked Creek

Project Title: Crooked Creek Johnny John Sr. Sch.
Sewer System Feasibility Study

Appropriation Requested: \$75,000

Project Description:

Feasibility study to decide whether to build a new leach system or an on-site lagoon treatment system, along with looking at connecting up to future city sewer.

Project Need:

Raw sewage backs up on the floor and in the crawl space when there is any above average use of the present system.

Cost Estimated By:

Stephen L. Hill

Kuspuk School District

Facility Coordinator

675-4250, Ext. 508

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

Kuspuk Sch. Dist.- Crooked Creek

Crooked Creek Johnny John Sr. Sch.
Sewer System Feasibility Study

PLANNING COMPLETED

PROJECT COSTS

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

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

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

Stephen L. Hill

P. O. Box 49

Aniak 99557

675-4250, Fax 675-4336

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

Election District: 36
Local Budget Priority: One
Population Served: 500

Community: Kuspuk Sch. Dist.- Upper Kalskag
Project Title: Upper Kalskag-George Morgan Sr.
High School Sewer
Appropriation Requested: \$209,000

Project Description:

On-site septic tank and leach bed

Project Need:

The existing leach field is in low ground and does not function anymore. During breakup, and when there is high water, the system is below the waterlevel. This has caused the system to silt up. When there is heavy activity at the school (basket ball games or evening activities), raw sewage runs to the surface of the ground behind the school. It also backs up in the school drains and crawl space. If not corrected, the crawl space and outside grounds will continue to be polluted.

Cost Estimated By:

Summit Consulting Services

Summit Consulting Services

291-2339

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

Kuspuk Sch. Dist.- Upper Kalskag

Upper Kalskag-George Morgan Sr. High
School Sewer

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$21,000
Engineer/Inspect:	\$20,000
Construction:	\$70,000
Equipment:	\$69,000
Other:	\$29,000
Total:	\$209,000

**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: Yes
O & M Costs Identified: Yes
User Fee Ordinance Adopted: No

COMMUNITY CONTACT

Stephen L. Hill
P. O. Box 49
Aniak 99557
675-4250, ext. 508 Fax
675-4336

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

Election District: 38
Local Budget Priority: One
Population Served: 408

Community: Kwigillingok, Native Village of
Project Title: Water (Source) Reservoir and Solid Waste Site
Appropriation Requested: \$1,884,000

Project Description:

This project proposes to construct facilities which will be the basis for development of a flush and haul system and solid waste disposal system supplying water, sewage disposal and solid waste disposal services to 74 homes. By combining these facilities into the same mobilization and project, use of funds will be maximized while improving community health conditions. The proposed facilities will include:

- 1) an earthen water reservoir (2,000,000 gallons minimum storage capacity);
- 2) reservoir snow catchment fence;
- 3) reservoir pump house with foundation;
- 4) new solid waste site
- 5) existing solid waste site closure.

Project Need:

This project is needed to reduce health hazards posed by contact of sewage through individual home hauling of honey buckets and by drinking untreated water. By providing facilities to develop the flush and haul system, existing honey bucket bunkers can be closed. This will eliminate pollution throughout the village when tidal flooding occurs. Lack of a water source will prevent implementing a flush and haul system. Provision of a new solid waste site will allow closure of existing solid waste site which is at capacity and overloading.

Cost Estimated By:

Denman Ondelacy, P. E.

US PHS

Engineer

729-3530

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

Kwigillingok, Native Village of

Water (Source) Reservoir and Solid
Waste Site

PLANNING COMPLETED

PROJECT COSTS

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

Administration:
Engineer/Inspect:
Construction: \$1,884,000
Equipment:
Other:
Total: \$1,884,000

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

Yes

Will federal money be used: Yes
Amount: 1,138,000 2,170,000
Source: EPA IHS
Date
Received: FY94/97 FY97-98

**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

Arthur Lake
P. O. Box 49
Kwigillingok **99622**

588-8114, Fax: 588-8429

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

Election District: 39
Local Budget Priority: One
Population Served: 580

Community: Kwinhagak, Native Village of
Project Title: Sanitation Facilities Improvement Project
Appropriation Requested: \$1,950,000

Project Description:

To fully implement the 1993 master plan, the following must be undertaken:

- 1) Installation of the water and sewage haul system in 30 homes & 6 community buildings funded and completed).
- 2) Installation of the water and sewage haul system in 45 more homes (funded.)
- 3) the design and permitting of a new landfill and sewage lagoon (funded).

This request will fund:

- 4) construction of a new landfill and sewage lagoon;
- 5) related water and sanitation improvements; and
- 6) install up to 30 additional water and sewage haul system units.

Project Need:

Residents use honey buckets for sewage disposal and must haul water from a watering point. This method of water and sewer service is a health hazard because residents are exposed to raw sewage and find it difficult to haul adequate amounts of water to maintain a healthy level of hygiene. A community water haul and delivery system and a sewage haul system using closed tanks and trailers is planned to make it safer. The existing honey bucket lagoon and dump are in extremely poor condition and are not permitted facilities. Runoff and natural movement of water drains through the lagoon and dump to and through Quinhagak, creating an environmental hazard.

Cost Estimated By:

Carol Campbell, P. E.

David Nairne & Associates, Ltd.

Engineer

604-984-3503

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

Kwinhagak, Native Village of

Sanitation Facilities Improvement Project

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications:

Feasibility Plan: Yes

Comprehensive Study: Yes

Is this a phased project: Yes

Administration: \$25,000

Engineer/Inspect: \$300,000

Construction: \$1,400,000

Equipment: \$50,000

Other: \$175,000

Total: \$1,950,000

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

Yes

Will federal money be used: Yes

Amount: 1,570,000 1,090,000

Source: IHS RECD

Date

Received: 1996-199 1996

7

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

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

Henry Mark

P. O. Box 149

Quinhagak 99655

556-8167

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

Election District: 8
Local Budget Priority: One
Population Served: 150+

Community: Lowell Point, Inc.
Project Title: Study and Pre-design of Water and Wastewater
Appropriation Requested: \$75,000

Project Description:

The community has determined that both safe, potable water and safe disposal of wastewater should be planned and designed together, so that residents of Lowell Point and thousands of annual visitors may be provided potable water and safe disposal of wastewater. The City of Seward operates their wastewater treatment plant on Lowell Point, and it is hoped to be able to connect our wastewater removal to Seward's treatment plant.

Project Need:

There is a history of water contamination. The City of Seward's sewage lagoon is in the center of Lowell Point and failed in 1991-92. Individual wells in the area make this a continuing hazard. Tidal influence causes brackish water in many residential wells. (Lowell Point subsided five feet during the 1964 earthquake, causing the tidal influence). Residents along the beachfront have no available water source other than rainwater collection. Wastewater disposal is also an extreme problem. Many of these lots predate statehood, and do not allow for DEC approved wells or septic because many lots are undersized, lacking sufficient space for septic systems and individual wells. There is a distinct possibility that the study and pre-design of the wastewater portion of the project will reveal existing health hazards.

Cost Estimated By:

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

Lowell Point, Inc.

Study and Pre-design of Water and
Wastewater

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: No	Administration:
Feasibility Plan: No	Engineer/Inspect: \$75,000
Comprehensive Study: No	Construction:
Is this a phased project: Yes	Equipment:
	Other:
	Total: \$75,000

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

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes	James McCracken
Certified Primary Operator: No	P.O. Box 709
Certified Backup Operator: No	Seward 99664
Drinking Water Compliance: Yes	224-3701 Fax: 224-8948
O & M Costs Identified:	
User Fee Ordinance Adopted: No	

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

Election District: 36
Local Budget Priority: Yes
Population Served: 350

Community: Lower Kalskag, City of
Project Title: Water and Sewer System Plan and Evaluation
Appropriation Requested: \$150,000

Project Description:

This project will develop a plan and design to extend the existing water and sewer system to areas where there is currently no service, and to serve homes that have septic tank drain field systems which have been failing. The project will evaluate system extension options, provide the design and permit approvals for the selected option, provide a construction cost estimate for the selected option, and provide an estimate for the resulting O&M costs to run the improved system. The plan will be prepared by an engineering firm hired by the village and will develop a phased approach to funding and construction.

Project Need:

Lower Kalskag has inadequate sewage service. Dangerous health risks exist from untreated sewage pooling around failing drain fields and septic tanks. Indiscriminate dumping of honey buckets also presents a health hazard. The potential for disease spread is great to children and adults. If a feasibility study is not funded, progress to improve the level of sanitation in Lower Kalskag would remain at a standstill, and the risk of disease transmission would increase.

Cost Estimated By:

Robin A. Dalton, P. E.

PHS-IHS

729-3529

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

Lower Kalskag, City of

Water and Sewer System Plan and
Evaluation

PLANNING COMPLETED

PROJECT COSTS

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

Administration: \$5,000
Engineer/Inspect:
Construction:
Equipment:
Other: \$145,000
Total: \$150,000

**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: No
User Fee Ordinance Adopted:

Henry K. Aloysius
P. O. Box 81
Lower Kalskag 99626
471-2223

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

Election District: 39

Local Budget Priority:

Population Served: 570

Community: Lower Kusk. SchD. - Bethel

Project Title: Kilbuck School Water Line
Replacement

Appropriation Requested: \$178,800

Project Description:

This project will construct a new water treatment system for the school. The system will consist of:

1. a new building to house the equipment;
- 2) a 2,000 gallon water storage tank;
- 3) a new well pump;
- 4) a green sand filter;
- 5) polymer injection;
- 6) a sand filter;
- 7) chlorine injection;
- 8) pressure pumps and tank.

Project Need:

The current system does not function properly nor does it meet current standards. The system as installed consists of: a well pump, chlorine injection, a pressure tank, a water softener, and a cartridge type canister filter. We were injecting Aquamag for corrosion control but could not make the system work nor could we get adequate support from the manufacturer's representative.

Cost Estimated By:

John Warren, P. E.

Larsen Engineering, Inc.

Engineer

243-8985

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

Lower Kusk. SchD. - Bethel

Kilbuck School Water Line Replacement

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$7,411
Engineer/Inspect:	\$15,000
Construction:	\$148,214
Equipment:	
Other:	\$8,175
Total:	\$178,800

**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**

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

COMMUNITY CONTACT

Jim Kohl

P. O. Box 305

Bethel **99559-0305**

543-4891, Fax: 543-3216

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

Election District: 39

Local Budget Priority:

Population Served: 95

Community: Lower Kusk. SchD.-Goodnews Bay

Project Title: Goodnews Bay School Sewer Line Replacement

Appropriation Requested: \$269,900

Project Description:

This project will install a new gravity sewer line from the school to the City of Goodnews Bay facultative sewage lagoon located south of the school, approximately 765 feet. The line will be buried 6" HDPE arctic pipe with manholes between the structures. The preliminary design documents are complete, final construction documents will be developed as part of the project.

Project Need:

The current sewage disposal leach field located to the north of the school has failed. We are using an open pit as the drain field for the septic tank. This project was originally going to be constructed in conjunction with the PHS project as a force account project. PHS has put their project on an indefinite hold until issues can be resolved with the City of Goodnews Bay. The goal for the City system is a piped water and sewage system.

Cost Estimated By:

Jordan Suhr, P. E.

Montgomery Watson

Engineer

248-8883

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

Lower Kusk. SchD.-Goodnews Bay

Goodnews Bay School Sewer Line
Replacement

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$32,700
Engineer/Inspect:	\$32,700
Construction:	\$204,500
Equipment:	
Other:	
Total:	\$269,900

**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**

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

COMMUNITY CONTACT

Jim Kohl

P. O. Box 305

Bethel **99559-0305**

543-4891, Fax: 543-3216

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

Election District: 39

Local Budget Priority:

Population Served: 75

Community: Lower Kusk. SchD. - Kasigluk

Project Title: Akula School Sewer Disposal
Feasibility Study

Appropriation Requested: \$36,750

Project Description:

This project would develop a feasibility study to review alternatives and their associated costs for the relocation of the school sewage disposal lagoon from its current location to other areas within the community. The community has been funded to develop a utility master plan, but the school is not included. They are scheduled to start the planning process this year.

Project Need:

The community of Akula, Kasigluk is located on land that is within a local person's Native Allotment. They purchased a portion and developed the new community there. They recently located additional land that is available for development that is located to the south of the school site. The school lagoon is located between the school and this property. They are currently planning additional houses that will be constructed in this area in the near future. We will then have a sewage lagoon located near the center of the community. We have similar situations in several communities and we are considering alternatives at this time to alleviate their concerns.

Cost Estimated By:

Jim Kohl

Lower Kuskokwim School District

Director, Plant Facilities

543-4891

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

Lower Kusk. SchD. - Kasigluk

Akula School Sewer Disposal Feasibility
Study

PLANNING COMPLETED

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

PROJECT COSTS

Administration: \$1,750
Engineer/Inspect:
Construction: \$35,000
Equipment:
Other:
Total: \$36,750

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**

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

COMMUNITY CONTACT

Jim Kohl

P. O. Box 305

Bethel

99559-0305

543-4891, Fax: 543-3216

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

Election District: 39

Local Budget Priority:

Population Served: 200

Community: Lower Kusk. SchD. - Kipnuk

Project Title: Kipnuk School Utility Master Plan

Appropriation Requested: \$78,700

Project Description:

This project will review the current and long term water, sewer, and solid waste utility needs for the Kipnuk School. We will develop a utility master plan that will integrate with the community's plan that is currently being developed.

Project Need:

The Kipnuk School is the largest utility consumer in the community.

- 1) The school is located in the center of the community and the ability to dispose of sewage on site is not feasible. We currently have a sewage treatment system that will be up-graded this year, but do not have an adequate disposal location.
- 2) We currently have 180,000 gallons of water storage capacity and use surface water with a tundra pond source. We have a district wide water system upgrade project and Kipnuk is a phase of it, but we do not have adequate funds to construct the entire project. We are currently seeking additional construction funds.
- 3) We currently burn part of our solid waste and dispose of the remainder in the community landfill.

Cost Estimated By:

Jim Kohl

Lower Kuskokwim School District

Director, Plant Facilities

543-4891

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

Lower Kusk. SchD. - Kipnuk

Kipnuk School Utility Master Plan

PLANNING COMPLETED

PROJECT COSTS

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

Administration: \$3,700
Engineer/Inspect:
Construction: \$75,000
Equipment:
Other:
Total: \$78,700

**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: Yes
Drinking Water Compliance: Yes
O & M Costs Identified: No
User Fee Ordinance Adopted: No

Jim Kohl
P. O. Box 305
Bethel 99559-0305
543-4891, Fax: 543-3216

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

Election District: 39
Local Budget Priority:
Population Served: 95130

Community: Lower Kusk. SchD. - Kongiganak
Project Title: Kongiganak School Additional Water Storage
Appropriation Requested: \$623,900

Project Description:

This project would construct a 100,000 gallon water storage tank at the Kongiganak School next to the existing tank. The tank will have a welded steel shell, founded on a gravel pad, with rigid insulation board and a metal jacket. It will be connected to the school building via a utilidor for distribution and the add-heat system to keep it from freezing.

Project Need:

The water source for the community is surface water from a tundra pond. The community and the school have water storage tanks to hold raw water that is processed as it is needed. On an annual basis the tank is filled and topped off before the winter freeze. In the spring when we get a thaw that accumulates water on the top of the ponds, we top off the tank. this tank will give the school the capacity to make finished water during the summer and keep the tank topped off during the year. We will also be able to flush the building toilets with non-potable water to reduce site costs.

Cost Estimated By:

Jim Kohl

Lower Kuskokwim School District

Director Plant Facilities

543-4891

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

Lower Kusk. SchD. - Kongiganak

Kongiganak School Additional Water
Storage

PLANNING COMPLETED

PROJECT COSTS

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

Administration:	\$47,535
Engineer/Inspect:	\$71,300
Construction:	\$475,355
Equipment:	
Other:	\$29,710
Total:	\$623,900

**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: Yes
User Fee Ordinance Adopted: No

Jim Kohl

P. O. Box 305

Bethel **99559-0305**

543-4891, Fax: 543-3216

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 39

Local Budget Priority:

Population Served: 110

Community: Lower Kusk. SchD. - Kwigillingok

Project Title: Kwigillingok School Sewage Lagoon
Dike

Appropriation Requested: \$315,000

Project Description:

This project will construct a containment dike and fence around the current sewage disposal pond located to the north of the school. The pond is also used by the community water treatment plant and washeteria. The containment dike costs have been estimated by PHS at \$400,000, and our portion is \$200,000. They will have a project in the community this year and these funds will be made available to them for construction. A new pile foundation for the school sewage line to the pond will be constructed as the current wood trestles constantly move with the seasons and require constant leveling. I have estimated the cost at \$100,000 to install a pile foundation.

Project Need:

The current disposal area is a tundra pond that does not have a containment dike and is subject to annual snow melt, and seasonal rain which causes the level to rise and run off in a small slough which eventually makes its way to the river. The community has voiced their concerns on this issue and expressed a desire to have the pond contained and eventually relocated to another area of the community in the future.

Cost Estimated By:

Jim Kohl

Lower Kuskokwim School District

Director, Plant Facilities

543-4891

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

Lower Kusk. SchD. - Kwigillingok

Kwigillingok School Sewage Lagoon Dike

PLANNING COMPLETED

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

PROJECT COSTS

Administration: \$15,000
Engineer/Inspect:
Construction: \$300,000
Equipment:
Other:
Total: \$315,000

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

No

Will federal money be used: Yes
Amount: 200,000
Source: PHS
Date
Received:

**OPERATION & MAINTENANCE
COMMITMENT**

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

COMMUNITY CONTACT

Jim Kohl
P. O. Box 305
Bethel 99559-0305
543-4891, Fax: 543-3216

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

Election District: 39
Local Budget Priority: One
Population Served: 725

Community: Lower Kuskokwim School District -
~~Districtwide~~
Project Title: Districtwide Water Treatment
Surface Water Sources
Appropriation Requested: \$1,500,000

Project Description:

This project request would fully fund the construction of water treatment systems at the following schools: Nightmute, Kwethluk, Kongiganak, Kwigillingok, and Kipnuk. The design for the project is completed and the project advertised for construction bids. This project uses containerized equipment that can be fabricated off site and shipped and assembled at each site. The treatment process is prefiltration with micro and nano filtration and reverse osmosis with water storage and a pressure system.

Project Need:

The schools in the five communities have surface water as the source and are not in compliance with current requirements of the Drinking Water Act. The community systems do not have adequate capacity to accommodate our needs. This project has some prior funding from the Department of Education and this request will fully fund the project and complete all five sites.

Cost Estimated By:

Jim Kohl

LKSD

Director, Plant Facilities/Capital Projects

543-4891

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

Lower Kuskokwim School District -
Districtwide

District Wide Water Treatment Surface
Water Sources

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: Yes

Feasibility Plan: Yes

Comprehensive Study: Yes

is this a phased project: Yes

Administration:

Engineer/Inspect:

Construction: \$1,500,000

Equipment:

Other:

Total: \$1,500,000

**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: No

Jim Kohl

P. O. Box 305

Bethel 99559-0305

543-4891

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

Election District: 36
Local Budget Priority: One
Population Served: 318

Community: Marshall, City of
Project Title: Sanitation Improvements
Appropriation Requested: \$1,200,000

Project Description:

This project will

- 1) Construct a building to house City maintenance equipment including: Garbage truck, 6-wheeler, heavy equipment used for water and sewer projects, welder/generator and other equipment.
- 2) Water and sewer lines will be extended to the new building
- 3) Service connections will be made to the new building.
- 4) Water and sewer connections will also be made to the water treatment plant.
- 5) An engineering design will be made to replace the PVC water and sewer lines in the old section of town.

Project Need:

This project is needed to build a garage for the garbage vehicle purchased by previous ADEC/VSW funds, along with other vehicles used for water and sewer repair work. This will extend the life of the equipment by keeping them out of inclement weather. The Engineering design will provide inspection of the 20-year old water and sewer system, and repair or construction of deteriorating manholes. The consequences of not doing this project will result in water and sewer main lines breaking, resulting in sewer leakage, contamination infiltrating the water lines, and time and money wasted on repairing an old system.

Cost Estimated By:

Debra Addie, P. E.

ADEC-VSW

Engineer

269-3085

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

Marshall, City of

Sanitation Improvements

PLANNING COMPLETED

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

PROJECT COSTS

Administration:
Engineer/Inspect: \$200,000
Construction: \$250,000
Equipment:
Other: \$750,000
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**

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

Raymond D. Alstrom

P.O. Box 9

Marshall 99585

679-6214, Fax: 679-6220

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 36
Local Budget Priority: One
Population Served: 450

Community: McGrath, City of
Project Title: Water and Sewer Master Plan
Appropriation Requested: \$192,500

Project Description:

We propose a master plan and detailed analysis of the water and sewer systems to include aerial mapping and ground control, soil samples, community involvement and coordination, engineering analysis, options, phasing of upgrades and possibly preliminary design work. The water plant is currently 13 years old and many parts of the system need to be replaced. We also want to plan for future expansion of both the water and sewer systems for the next 20 years.

Project Need:

The City of McGrath water plant is 13 years old. We are experiencing increased expenses as well as increased operating costs to run our system. Without an engineering study and modernization of our system to improve its efficiency, we run the increasing risk of catastrophic failure and or the systems bankrupting the City. The system has been losing over \$30,000 a year for the last 3 years.

Cost Estimated By:

Julie Burton

Tanana Chiefs Conference

Environmental Engineer

1-800-478-6822 ext. 3735

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

McGrath, City of

Water and Sewer Master Plan

PLANNING COMPLETED

PROJECT COSTS

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

Administration:	\$10,000
Engineer/Inspect:	\$100,000
Construction:	\$0
Equipment:	\$2,500
Other:	\$80,000
Total:	\$192,500

**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**

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

Kathy Snow
P. O. Box 30
McGrath **99627**

524-3825

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

Election District: 38
Local Budget Priority: One
Population Served: 210

Community: Mekoryuk, City of
Project Title: Force Main and Pump Station, Step 2B
Appropriation Requested: \$2,190,000

Project Description:

This project will consist of:

- 1) design and construction of 5,100 linear feet of force main and two pump stations
- 2) connecting the existing washeteria and school to a new sewage lagoon to be constructed in 1999.
- 3) \$15,000 training fund for haul operators.
- 4) connection of ten additional users to Flush Tank and Haul system.

Project Need:

The existing lagoon is very close to town and has a bad odor. The first cell is filling with plastic bags full of human waste. The second cell is leaking. This project provides a critical step in reducing flow to the existing lagoon and beginning operation of a new lagoon. The current lagoon poses a health risk due to incidental contact with sewage and a pollution risk since the second cell is leaking onto adjacent ground. If the force main and pump station are not constructed, odor problems will continue, unsanitary bags of waste will remain at the existing lagoon, and the chance for contact with the waste will remain. The City Health Aide has noted these health hazards. The chance for pollution from lagoon leakage will also remain. Haul operators need additional training, and ten additional sites were identified as needing Flush Tank and Haul water and sewer service.

Cost Estimated By:

David Yanoshek, P. E.

CRW Engineering

562-3252

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

Mekoryuk, City of

Force Main and Pump Station, Step 2B

PLANNING COMPLETED

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

PROJECT COSTS

Administration: \$30,000
Engineer/Inspect: \$250,000
Construction: \$1,895,000
Equipment:
Other: \$15,000
Total: \$2,190,000

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

Yes

Will federal money be used: Yes
Amount: 45,000 300,000
Source: ANHB USDA-RDA
Date
Received: FY99 FY2000

**OPERATION & MAINTENANCE
COMMITMENT**

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

COMMUNITY CONTACT

Jobe Weston
P. O. Box 29
Mekoryuk 99630

562-3252, Fax: 561-2273

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

Election District: 36
Local Budget Priority: One
Population Served: 70

Community: Mentasta Traditional Council
Project Title: Sewer Collection and Disposal,
Phase I
Appropriation Requested: \$180,000

Project Description:

This project will build a septic system for the school, Community Hall, Daycare/Elder Center, and Recreational Center. Due to land size, these buildings cannot have individual septic systems. We want to have one system for all four buildings. Plus, it would cut costs on operations for both Mentasta Traditional Council and Alaska Gateway School District. The school has its' own well, and daycare/elder center has a well. Mentasta Traditional Council is seeking funds through Mt. Sanford Tribal Consortium and/or PHS for a well to be placed at the community hall by the end of October, 1999. If this does not work, we will apply next year through VSW for a well as Phase II of this project.

Project Need:

In our feasibility study, it was stated that the current septic system for the school is inadequate for the size of the school. Also, the Hall, Elder/Daycare and Recreation centers are public buildings that we want to provide with safe and adequate restrooms for use by the people. At this time, they are unhealthy because there is only an outhouse and no place to wash.

Cost Estimated By:

Debra Addie

ADEC-VSW

Engineer

269-3085

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

Mentasta Traditional Council

Sewer Collection and Disposal, Phase I

PLANNING COMPLETED

Plans & Specifications:

Feasibility Plan: Yes

Comprehensive Study:

Is this a phased project: Yes

PROJECT COSTS

Administration:	\$6,000
Engineer/Inspect:	\$30,000
Construction:	\$122,000
Equipment:	\$2,000
Other:	\$20,000
Total:	\$180,000

**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: No

Certified Primary Operator: No

Certified Backup Operator: No

Drinking Water Compliance: No

O & M Costs Identified: No

User Fee Ordinance Adopted: No

COMMUNITY CONTACT

Kathryn Martin

P. O. Box 6019

Mentasta Lake 99780

291-2319

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

Election District: 2
Local Budget Priority: One
Population Served: 1878

Community: Metlakatla Indian Community
Project Title: Sewer System Upgrades
Appropriation Requested: \$1,375,000

Project Description:

This project includes the construction of a new 2-cell aerated community sewage lagoon and deep water ocean outfall. The existing lagoon is presently overloaded and the ocean outfall discharges on the beach above the low tide elevation. The outfall discharge location is near the community creating a significant health hazard. This project also includes replacement of sewer mains and manholes along Tait Street, Upper Atkinson Street and Fawcett Street. This sewer system is dilapidated and allows significant infiltration overloading the sewage treatment system and results in excessively high pumping (operational) costs for the community.

Project Need:

The existing sewage lagoon is overloaded and is discharging effluent which does not meet State or federal standards. This results in contamination of the local beaches. Additionally, the existing ocean outfall discharges above the low tide elevation which is increasing contamination levels and allows the opportunity for human contact with the effluent. The hydraulic overloading of the sewer system causes periods of substandard sewage treatment by shock loading the sewage treatment system.

Cost Estimated By:

Kurt Egelhofer
ADEC-Village Safe Water
Engineer
269-7601

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

Metlakatla Indian Community

Sewer System Upgrades

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$5,000
Engineer/Inspect:	\$90,000
Construction:	\$1,190,000
Equipment:	\$0
Other:	\$90,000
Total:	\$1,375,000

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

Yes

Will federal money be used: Yes
Amount: 560,000
Source: EPA through
PHS
Date
Received: FY98

**OPERATION & MAINTENANCE
COMMITMENT**

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

COMMUNITY CONTACT

Paul Brendible, Jr. Grants Officer and
Tim Gilmartin, Mayor
P.O.Box 8

Metlakatla 99926

886-4441

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

Election District: 36
Local Budget Priority: One
Population Served: 245

Community: Minto, Village of
Project Title: Water and Sewer Improvements,
Phase I
Appropriation Requested: \$1,042,800

Project Description:

Minto has just completed Phase I of the VSW study. Continued funding will allow us to move into Phase II. The capital project will survey land and acquire permits for the solid waste facility, improve the water treatment plant, domestic water circulation, piping and heating, improve and repair the sewer system and lagoon, and complete the engineering design for Phases II, III, and IV.

Project Need:

The development of a permitted Minto solid waste facility is required not only to comply with ADEC regulations, but also for the health and welfare of Minto. The main well is seven years old and is not producing enough water to meet the current demand, and the back up well is currently also operating. The production of the well has declined during the past year from 25 to 13 gpm. The 28 year old water treatment plant is in need of numerous piping, heating, and ventilation repairs to achieve efficient and reliable operation. Installation of pit orifices and the upgrade of the emergency generator in the water treatment plant would prevent the services from freezing.

Cost Estimated By:

PDC, Inc.

Privat Firm

452-1414

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

Minto, Village of

Water and Sewer Improvements, Phase I

PLANNING COMPLETED

PROJECT COSTS

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

Administration:	\$27,000
Engineer/Inspect:	\$240,700
Construction:	\$775,100
Equipment:	
Other:	
Total:	\$1,042,800

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

 Yes

Will federal money be used:
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:
User Fee Ordinance Adopted: No

Bessie Titus

P. O. Box 58026

Minto **99758**

798-7112

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

Election District: 7
Local Budget Priority: One
Population Served: 177

Community: Nanwalek, Native Village of
Project Title: Water Source Development, Upgr. to
Treatment & Distribution Systems
Appropriation Requested: \$997,000

Project Description:

This project will identify and develop a new surface water source. The water will be tested for treatability, and an intake structure with a small reservoir will be constructed. A leak detection and repair program will be conducted to reduce loss. An addition to the existing water treatment plant will be constructed to house granular and micro-particulate cartridge pressure filters. An on-line turbidimeter and chart recorder, plumbing improvements and a fuel-oil space heater will be installed at the WTP. A UPS power system will be installed to power the chlorination and heating systems for the WTP. A new bolted steel water storage tank will be installed at a higher elevation so that distribution system pressure is increased, allowing newly constructed homes to receive water service. The storage tank will be large enough and plumbed to guarantee adequate chlorine disinfection contact time to the entire water system.

Project Need:

The existing water source is an unprotected stream drainage with quality which varies rapidly in response to precipitation, snow melt runoff, stream bank erosion and through-stream four-wheeler traffic. Supply cannot meet demands during cold weather periods. There have been confirmed cases of giardia and fecal coliform contamination in the water supply. The existing treatment system includes a single 42" diameter coarse media pressure filter followed by chlorine injection. The current water storage tank and distribution system provides less than ten percent of the required disinfection contact time needed to assure adequate disinfection of filtered water from the WTP. A comprehensive geo-technical and geophysical study established that adequate groundwater supplies are not available within economic proximity to Nanwalek. The existing source should be supplemented or replaced to provide a reliable source of water.

Cost Estimated By:

Brad Rea, P. E.

US PHS

Engineer

729-3543

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

Nanwalek, Native Village of

Water Source Development, Upgr. to
Treatment & Distribution Systems

PLANNING COMPLETED

PROJECT COSTS

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

Administration:	\$44,846
Engineer/Inspect:	\$100,119
Construction:	\$740,900
Equipment:	
Other:	\$111,135
Total:	\$997,000

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

Yes

Will federal money be used:	Yes
Amount:	255,000 150,000
Source:	HUD-ICDBG HUD-NPRH A
Date	
Received:	1996 1998

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

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

Jerry Demas

P. O. Box 8076

Nanwalek 99603-6665

**281-2274, Fax:
281-22252**

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

Election District: 39
Local Budget Priority: One
Population Served: 346

Community: Napakiak, City of
Project Title: City-wide Flush Tank and Haul and Washeteria Renovation Project
Appropriation Requested: \$1,249,100

Project Description:

This project will provide water and sewer service to the final 22 homes and community buildings in Napakiak, and funding to renovate our washeteria. When this project is complete, we will no longer be a community on the honey bucket and we will have a well functioning washeteria. Our washeteria is being only minimally repaired under current funding. We need this project to ensure the long term sustainability of the washeteria. The City Council will, at long last, be able to pass an ordinance outlawing the honey bucket in our community.

Project Need:

The honey bucket is a health hazard to our people and our children. The stink, disease and risk to our people spread by the honey bucket is terrible. The pollution is rampant and makes its way into the air and our waters where we fish. If this project is not done, our people will continue to suffer from oral-fecal disease transmission.

Cost Estimated By:

Jordan Suhr; Shaun Baron; Jim Patterson

Montgomery Watson; Cowater AK;
ADEC-VSW

248-8883; 522-5511; 269-7611

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

Napakiak, City of

City-wide Flush Tank and Haul and Washeteria Renovation Project

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: Yes	Administration: \$37,520
Feasibility Plan: Yes	Engineer/Inspect: \$227,080
Comprehensive Study: Yes	Construction: \$841,700
Is this a phased project: Yes	Equipment: \$5,000
	Other: \$137,800
	Total: \$1,249,100

Community Resolution passed requesting money through VSW and indicating a priority? Yes	Will federal money be used: Yes
	Amount: 136,500 773,200
	Source: DOTPF DOTPF
	Date
	Received: 2000 2001

**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

Oliane L. Kameroff
General Delivery
Napakiak 99634
589-2227

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

Election District: 39
Local Budget Priority: One
Population Served: 406

Community: Napaskiak Native Village
Project Title: Phase I - Sanitation Facilities Improvement Project
Appropriation Requested: \$1,000,000

Project Description:

Water, sewer and solid waste disposal practices in rural Alaska are unique because of the wetland environment and lack of a road system. The project will implement a Low Flow Flush and Haul System to selected and qualified families throughout the village, by adding modular bathroom units to non-HUD housing and flushing toilets and septic tanks to existing HUD housing. That type of Flush and Haul System is now in use in several villages and it is proving to be a very effective alternative to a piped water system that would prove very costly to install and maintain. A vacuum unit is in use that pumps out raw sewage from bunkers strewn around the community. It is very capable of vacuuming out proposed septic tanks the project will establish. This project ties in with the long-term plans of the community to "put the honey bucket in the museum".

Project Need:

A documented health hazard now exists for Napaskiak and the Yukon Kuskokwim Region with extremely high rates of Hepatitis A and B because people are continually being exposed to raw sewage and dirty water from the lack of flushing toilets and running water. A child died from playing around the hoppers and scratching her mosquito bite with raw sewage contaminated hands and fingernails. Raw sewage is being collected using 5-gallon buckets and hand carried out to 75-gallon hoppers strewn around the community. Sanitation workers then run around with a vacuum unit to pump out the raw sewage and transport it to the sewage lagoon to be pumped out. The consequences of not being funded will be an outbreak of Hepatitis A and B and further deterioration of the health of the people of Napaskiak. Despite health clinics, regional hospitals and experimental vaccines for Hepatitis A & B, the people's health is not getting better.

Cost Estimated By:

Steve Eng
ADEC-VSW
Engineer
269-7597

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

Napaskiak Native Village

Phase I - Sanitation Facilities
Improvement Project

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: Yes	Administration: \$50,000
Feasibility Plan: Yes	Engineer/Inspect: \$50,000
Comprehensive Study: No	Construction: \$800,000
Is this a phased project: Yes	Equipment: \$100,000
	Other: \$0
	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:
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**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: No	Chris G. Larson P.O. Box 6009 Napaskiak 99569 737-7364
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**Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water**

Election District: 5
Local Budget Priority: One
Population Served: 80-100

Community: Naukati West, Inc.
Project Title: Naukati Sewer and Water Study
Appropriation Requested: \$50,000

Project Description:

This is a feasibility study which is the first phase of a project to provide safe water and sanitation systems to the community of Naukati. It will address the problem of finding a community water source. It will help us develop a plan and cost analysis for a treated water system for residents, businesses and the school. This study would be combined with a feasibility study for a sewer system.

Project Need:

Naukati has a limited water supply which consists mostly of rain catchment systems and a few small streams. When these fail, water is hauled from questionable sources. As the community grows, these sources will prove inadequate and may become polluted from increased use of the watershed. A safe water supply is essential if we are to grow and develop as a community. Naukatie has no central sewer system. The State requirements for the subdivision is a sealed vault system. The only sealed vault system currently approved is a moveable outhouse over a barrel. Many of the lots are poorly drained and septic systems or leach fields cannot be used. Inadequate systems pollute ground water and affects the drinking water. There can be no community development without a way of handling wastes.

Cost Estimated By:

Kurt Egelhofer

ADEC-VSW

Engineer

269-7601

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

Naukati West, Inc.

Naukati Sewer and Water Study

PLANNING COMPLETED

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

PROJECT COSTS

Administration:
Engineer/Inspect: \$50,000
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**

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

COMMUNITY CONTACT

Van Huffman
P. O. Box NKI #1
Ketchikan 99950-0550
629-4234

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

Election District: 38
Local Budget Priority: One
Population Served: 279

Community: Newtok Traditional Council
Project Title: Sanitation Facilities Plan and Demo Project
Appropriation Requested: \$275,000

Project Description:

This project will be the next step in the overall approach for improving the inadequate infrastructure in the village. Funding is being requested to develop 1) a sanitation master plan, 2) utility management planning and training, and 3) continued demonstration of the FTH system in 3 homes in the community. To date, the FTH system has been installed in the village clinic, and a FTH feasibility study has been prepared. This project is needed to plan for new infrastructure at the new village site and the present site during the intervening time until the village moves, and to plan for the transition to the new village site. The findings of the feasibility study support community wide implementation of the FTH system and other improvements, including a new water storage tank, a new water source and a new sewage lagoon.

Project Need:

Sanitation improvements are badly needed in Newtok. Residents self haul water from a watering point in the village. Typically, water is not available for 30-60 days each year because the water source is frozen and the storage tank is too small. The water source is located next to the airstrip and is at risk from contamination from garbage, sewage and fuel. There is no community sewage collection, treatment or disposal system. Residents utilize honey buckets as a sewage disposal system which are then hauled to the Newtok River and dumped. In 1987 a Hepatitis A outbreak occurred in Newtok. Sanitation conditions in the village have not improved or changed at all since that time. In fact, they are much worse as the community population has increased by 40% since then. This increase is severely straining the existing infrastructure and the environment. The shortage of water and concerns about contamination of the source water have led many residents to drink water from other non-treated surface sources.

Cost Estimated By:

Carol Campbell, P.E. and Jim Patterson, PE
David Nairne & Asst. and ADEC -VSW
Engineers
(604) 984-3503 and (907) 269-7611

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

Newtok Traditional Council

Sanitation Facilities Plan and Demo
Project

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$5,000
Engineer/Inspect:	\$120,000
Construction:	\$100,000
Equipment:	
Other:	\$50,000
Total:	\$275,000

**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: Yes
O & M Costs Identified:
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Stanley Tom

P. O. Box 5545

Newtok **99559**

237-2314

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 7
Local Budget Priority: One
Population Served: 40

Community: Ninilchik Vil. Cncl. Hmowners Assn.
Project Title: Subdivision Sewer Project
Appropriation Requested: \$600,000

Project Description:

This project will build individual sewage treatment units at up to 15 buildings within the old Ninilchik subdivision. The sewage will be discharged into a low pressure sewer main and then into a central UV disinfection unit before discharge into the Ninilchik River. On-site water improvements are also part of the intended scope of work. Homeowner well systems will be improved by added storage and water treatment capabilities. The UV plant and part of the sewer main have already been designed and are planned for construction in October, 1998. This grant will pay for the design and construction of the new systems, and cover some operator and administrative training.

Project Need:

Many homes in the village still use outhouses and haul water. The project is needed because there is no conventional way to discharge sewage within the subdivision. Lots are too small for both well and septic. There is a clay subsurface layer that does not allow conventional leach fields to percolate. In order to have individual water wells serving the home, a community sewage collection and disposal facility needs to be constructed. In addition, ADEC requires a 100 foot separation distance from the river to prevent pollution. We need sewage treatment to protect the river and allow for septic systems within the community.

Cost Estimated By:

Mike Wolski, P. E.

ADEC-VSW

Engineer

269-7603

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

Ninilchik Vil. Cncl. Hmowners Assn.

Subdivision Sewer Project

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications:

Feasibility Plan: Yes

Comprehensive Study:

Is this a phased project: Yes

Administration: \$2,000

Engineer/Inspect: \$82,000

Construction: \$487,500

Equipment: \$20,000

Other: \$8,500

Total: \$600,000

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

Yes

Will federal money be used: Yes

Amount: 65,800

Source: EPA

Date

Received: 1998

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: Yes

Certified Primary Operator: Yes

Certified Backup Operator: yes

Drinking Water Compliance: No

O & M Costs Identified: Yes

User Fee Ordinance Adopted: No

Steve Vanek

P. O. Box 103

Ninilchik 99639

567-1028, Fax: 567-3499

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 37
Local Budget Priority: One
Population Served: 400

Community: Noatak, Native Village of
Project Title: Upgrades for Noatak Water and Sewer
Appropriation Requested: \$80,000

Project Description:

This project will upgrade the water & sewer system for the native village of Noatak. It will purchase spare parts for our system. ABS Pumps, circulating pumps, well pumps, pressure pumps, one 4-wheeler for the operator to use around the village, upgrade in-house plumbing for the community village elders and houses not completed by VSW.

Project Need:

We currently do not have spare parts for our system. Plumbing was not completed in some homes.

Cost Estimated By:

R. Minnie Stalker
Native Village of Noatak
Utility Manager
485-2141 or 2173

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

Noatak, Native Village of

Upgrades for Noatak Water and Sewer

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$20,000
Engineer/Inspect:	
Construction:	\$17,500
Equipment:	\$32,500
Other:	\$10,000
Total:	\$80,000

**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: Yes
Drinking Water Compliance: Yes
O & M Costs Identified: Yes
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Alice E. Adams
P. O. Box 89
Noatak 99761
485-2141 & 2173

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 37
Local Budget Priority: One
Population Served: 64

Community: Noorvik, City of
Project Title: River Drive Water and Sewer
Extension
Appropriation Requested: \$1,470,000

Project Description:

Extend existing water and sewer system along River Drive to serve 7 existing homes. Extend service to 9 additional scattered homes in the south portion of town with water and sewer service lines. Provide indoor plumbing for 16 homes along with plumbing connections to new service lines. Water plant upgrades and lift station construction completed under the first phase of the project.

Project Need:

Approximately 64 residents of Noorvik, living on the south side of the City along River Drive, are without water and sewer service. Without a safe supply of drinking water piped into the homes, or a safe method of sewage disposal residents are subject to disease causing agents. Unsafe raw sewage disposal, caused by the lack of indoor facilities, is often disposed of improperly and is a health hazard to other residents

Cost Estimated By:

Matthew Dixon, P. E.

USDHSS/AAIHS/OEH&E

Engineer

729-3535

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

Noorvik, City of

River Drive Water and Sewer Extension

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$63,000
Engineer/Inspect:	\$151,000
Construction:	\$1,256,000
Equipment:	
Other:	
Total:	\$1,470,000

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

Yes

Will federal money be used:	Yes	
Amount:	1,350,000	645,000
Source:	IHS/EPA	US-HUD
Date Received:	1993	1995

**OPERATION & MAINTENANCE
COMMITMENT**

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

COMMUNITY CONTACT

Glenn D. Skin
P.O.Box 146
Noorvik **99763**
636-2100 or 2211

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 37
Local Budget Priority: One
Population Served: 435

Community: Nuiqsut, City of
Project Title: Service Connections
Appropriation Requested: \$971,000

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:

There aren't enough residences with 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, allowing it to collect in pools which children play in, or be 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

561-6605

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

Nuiqsut, City of

Service Connections

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$34,400
Engineer/Inspect:	\$96,600
Construction:	\$800,000
Equipment:	
Other:	\$40,000
Total:	\$971,000

**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: Yes
Drinking Water Compliance: Yes
O & M Costs Identified:
User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Leonard Lampe, Sr.
P. O. Box 69
Barrow **99723**
852-0200

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 39
Local Budget Priority: One
Population Served: 500

Community: Nunapitchuk, City of
Project Title: Water and Sanitation Improvements
Appropriation Requested: \$950,000

Project Description:

This project will be for the following:

- 1) 30 Cowater flush tank and haul units,
- 2) Filling in the lakes created when the sewage bunkers were closed.

PHS closed the sewage bunkers in the winter of 1996 by digging them up and burying them. There are now small lakes where the bunkers were. They are growing in size and they are a hazard to the community.

Project Need:

Most residents use honey buckets, which are dumped in containers throughout the city. When the containers get full, the City dumps these open containers of sewage in the two sewage lagoons. (A lagoon is on each side of the river). Sewage is sometimes spilled on the boardwalk, a health and pollution hazard. Flush tank and haul units have so far been installed in 38 houses. This request for 30 more units will eliminate 30 more honey buckets. Before the honey bucket haul and flush tank and haul systems were built, residents dumped their honey buckets into plywood bunkers built by PHS in the 1970's. PHS closed the bunkers in 1996 in winter and buried the contents. The soil and sewage was frozen and when it melted in the spring, it settled and small lakes were formed. These lakes have been growing in size and they are a significant hazard, especially to children. The consequences of not doing this project is that 30 homes will continue to use honey buckets and the bunker lakes will keep increasing in size.

Cost Estimated By:

Jordan Suhr, P.E.; Shaun Baron

Montgomery Watson; Cowater Alaska

266-1224; 522-5511

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

Nunapitchuk, City of

Water and Sanitation Improvements

PLANNING COMPLETED

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

PROJECT COSTS

Administration:	\$19,000
Engineer/Inspect:	\$218,500
Construction:	\$712,500
Equipment:	
Other:	
Total:	\$950,000

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

Yes

Will federal money be used: Yes

Amount: 329,000

Source: DOA/RD

Date

Received: 1998

**OPERATION & MAINTENANCE
COMMITMENT**

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

COMMUNITY CONTACT

Eli Wassillie

P. O. Box 190

Nunapitchuk 99641

527-5327

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 6
Local Budget Priority: One
Population Served:

Community: Old Harbor, City of
Project Title: Sanitation Improvement Feasibility Study
Appropriation Requested: \$100,000

Project Description:

Study upgrade for compatibility with upcoming hydroelectric system. This project will comply with surface water treatment rule. Professional leak survey for distribution system.

Project Need:

The existing system in the city was implemented in 1968 by PHS, consequently the City is in need of a more current study.

Cost Estimated By:

Mark Stanford

PHS

1-800-560-8637, ext. 3544

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

Old Harbor, City of

Sanitation Improvement Feasibility Study

PLANNING COMPLETED

PROJECT COSTS

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

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

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

Yes

Will federal money be used:

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: No
User Fee Ordinance Adopted: Yes

James A. Nestic or Jonetta Cratty
P. O. Box 109
Old Harbor 99643
286-2204

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

Election District: 36

Local Budget Priority:

Population Served: 120

Community: Old Minto Camp

Project Title: Sanitation Facilities Master Plan Survey

Appropriation Requested: \$100,000

Project Description:

This project will conduct a sanitation facility master plan study of the Old Minto Family Recovery Camp (OMFRC) located at Old Minto. OMFRC is a 35-day inpatient program that provides substance abuse treatment. OMFRC is located on the original village site and has a year-round population of 25+. The study is to be conducted to assess the water, sewer and solid waste disposal and treatment situation and make recommendations for proper disposal and treatment.

Project Need:

The study will identify and assess the environmental hazards and provide solutions to correct problems identified. At the present time the residents of OMFRC obtain their water from the Tanana River and the means of sewage disposal is by poorly constructed outhouses.

Cost Estimated By:

Bill Griffith

TCC

452-8251

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

Old Minto Camp

Sanitation Facilities Master Plan Survey

PLANNING COMPLETED

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

PROJECT COSTS

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

**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**

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

COMMUNITY CONTACT

Victor Joseph
122 First Avenue, Suite 600
Fairbanks 99701
452-8251, Fax: 459-3835

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 39
Local Budget Priority: One
Population Served: 64

Community: Oscarville, Tribal Council
Project Title: Implementation of a Low Flow Haul System
Appropriation Requested: \$500,000

Project Description:

Implementation of a low flow haul system engineered by VSW. The project will use the type of flush tank and haul (FT&H) unit used in Tuntutuliak. Tuntutuliak is similar to Oscarville in population, geographical topography, layout of homes and boardwalk construction. We will use their master plan. A haul unit to contend with spills has passed the planning stage and is on the way. We have applied to HUD to upgrade our watering point to store more potable water. The upgrade in the watering point will also serve the hauling units to get water from the point of delivery to the various home constructions to the low flow hauling system.

Project Need:

A health hazard exists in the village when spillage occurs from honey bucket hopper trailers when waste is being transported to the sewage lagoon or when spills are unaccounted for. The hopper trailers pose a very dangerous and immediate health hazard because they are in close proximity to the daily traffic in and around the village. Children play in and around the village boardwalks and tend to play with hopper trailers. The consequences of not initiating the FT&H system will be that ultimately there will be outbreaks of Hepatitis A and B in the village. This can cause hospitalization or even death if not detected early. Implementation of this system will not fully eliminate the issue of danger to the people we serve, but will greatly improve our health related problems in the bush.

Cost Estimated By:

Steve Eng, P. E.

ADEC-VSW

Engineer

269-7597

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

Oscarville, Tribal Council

Implementation of a Low Flow Haul
System

PLANNING COMPLETED

Plans & Specifications: Yes

Feasibility Plan: Yes

Comprehensive Study: Yes

Is this a phased project: Yes

PROJECT COSTS

Administration: \$25,000

Engineer/Inspect: \$25,000

Construction: \$400,000

Equipment: \$50,000

Other:

Total: \$500,000

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

Yes

Will federal money be used: Yes

Amount: 20,755

Source: NAHASDA

Date

Received: 2001

**OPERATION & MAINTENANCE
COMMITMENT**

Trained Operator: Yes

Certified Primary Operator: No

Certified Backup Operator: No

Drinking Water Compliance: Yes

O & M Costs Identified: Yes

User Fee Ordinance Adopted: Yes

COMMUNITY CONTACT

Jimmy Andrew Larson, Jr.

P. O. Box 6129

Napaskiak 99559

737-7099, Fax: 737-7211

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 21
Local Budget Priority: One
Population Served: 50-100

Community: Panguingue Cr. Homeowners Assn
Project Title: Community Well Project
Appropriation Requested: \$15,000

Project Description:

This project will fund construction of a community well on the Homeowners Association common lot, to provide drinking water, and future fire fighting capabilities.

Project Need:

Over ninety percent of residents do not have running water and the public water supply nearby is not reliable. A water supply would also be necessary in procuring grants and funding for future volunteer fire fighting equipment, to help provide greater safety and security.

Cost Estimated By:

Jon Nierenberg

Panguingue Creek Homeowners Assn.

President

683-2863

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

Panguingue Cr. Homeowners Assn

Community Well Project

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: No	Administration: \$0
Feasibility Plan: Yes	Engineer/Inspect: \$0
Comprehensive Study: Yes	Construction: \$10,000
Is this a phased project: Yes	Equipment: \$4,000
	Other: \$1,000
	Total: \$15,000

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

**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

Trained Operator: No	Jon Nierenberg
Certified Primary Operator: No	P. O. Box 451
Certified Backup Operator: No	Healy 99743
Drinking Water Compliance: No	683-2863
O & M Costs Identified: Yes	
User Fee Ordinance Adopted: No	

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

Election District: 40
Local Budget Priority: One
Population Served: 74

Community: Pedro Bay Village Council
Project Title: Class III Landfill and Access Road Construction
Appropriation Requested: \$1,206,100

Project Description:

Construction of an ADEC compliant and approved class III solid waste landfill with an approximate 2,800 linear feet of access road. Some of the elements included in the Solid Waste Permit Application this project will complete are: clearing of 3.4 acres, strip and stockpile approximately 2,560 cubic yards of overburden, blast and excavate 4200 cubic yards of bedrock, sludge disposal berm/fence (300 linear feet), landfill work pad and service area (60' x 100' + 500' x 20'), drain and construct wetlands, track loader and 30' x 30' metal landfill shelter.

Project Need:

There are several deficiencies at Pedro Bay's existing landfill which pose both health and pollution hazards. It was noted that the existing landfill may be contaminating ground water, and was nearing capacity in 1992. Subsequent surveys by the US PHS noted that conditions have continued to deteriorate and in September, 1995 a letter stated that conditions listed pose a "serious potential health hazard" which could adversely affect the community and the environment.

Cost Estimated By:

Rodney P. Kinney, Jr.

Rodney P. Kinney, Associates, Inc.

694-2332

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

Pedro Bay Village Council

Class III Landfill and Access Road
Construction

PLANNING COMPLETED

PROJECT COSTS

<p>Plans & Specifications: Yes</p> <p>Feasibility Plan:</p> <p>Comprehensive Study:</p> <p>Is this a phased project: Yes</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Administration:</td> <td style="text-align: right; padding: 2px;">\$43,060</td> </tr> <tr> <td style="padding: 2px;">Engineer/Inspect:</td> <td style="text-align: right; padding: 2px;">\$86,150</td> </tr> <tr> <td style="padding: 2px;">Construction:</td> <td style="text-align: right; padding: 2px;">\$996,890</td> </tr> <tr> <td style="padding: 2px;">Equipment:</td> <td style="text-align: right; padding: 2px;">\$80,000</td> </tr> <tr> <td style="padding: 2px;">Other:</td> <td></td> </tr> <tr> <td style="padding: 2px;">Total:</td> <td style="text-align: right; padding: 2px;">\$1,206,100</td> </tr> </table>	Administration:	\$43,060	Engineer/Inspect:	\$86,150	Construction:	\$996,890	Equipment:	\$80,000	Other:		Total:	\$1,206,100
Administration:	\$43,060												
Engineer/Inspect:	\$86,150												
Construction:	\$996,890												
Equipment:	\$80,000												
Other:													
Total:	\$1,206,100												

<p style="text-align: center;">Community Resolution passed requesting money through VSW and indicating a priority?</p> <p style="text-align: center;">Yes</p>	<p>Will federal money be used: No</p> <p>Amount:</p> <p>Source:</p> <p>Date</p> <p>Received:</p>
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**OPERATION & MAINTENANCE
COMMITMENT**

COMMUNITY CONTACT

<p>Trained Operator: Yes</p> <p>Certified Primary Operator: No</p> <p>Certified Backup Operator: No</p> <p>Drinking Water Compliance:</p> <p>O & M Costs Identified:</p> <p>User Fee Ordinance Adopted: Yes</p>	<p>John M. Baalke</p> <p>P. O. Box 47020</p> <p>Pedro Bay 99647</p> <p>850-2225</p>
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Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 5
Local Budget Priority: One
Population Served: 140

Community: Pelican, City of
Project Title: Sewer Equipment Upgrade
Appropriation Requested: \$24,700

Project Description:

This project will enable the City of Pelican to dispose of sewage sludge more efficiently and economically. This grant would purchase a pump and hose, 2,000 gallon moveable tank, bobcat and trailer. Sludge would be pumped from the four 10,000 gallon septic tanks to the tank. Using the bobcat, the tank would be moved to the trailer. The trailer could then be hauled on o the Alaska State ferry for its monthly trip to Pelican and transported to Juneau where it is pumped and cleaned . This project will allow the City to properly and efficiently empty and clean the permanent septic tanks presently in use. Long-term savings will be realized since the City would not be paying rent for a tank truck to make a monthly trip to Pelican, covering full wages, overtime, and per diem , while receiving only an hour or two (at most) of pumping time due to the short turn-around time of the ferry.

Project Need:

At the present time, the method used for sludge pumping is costly and inefficient. Pelican has four 10,000 gallon septic tanks. The tanks are pumped approximately four times a year, using a 2,000 gallon truck shipped to Pelican from Juneau by ferry. The pumping contractor places the truck on the ferry for the 6 1/2 hour one-way (15-hour round trip) voyage to Pelican. Upon the ferry's arrival in Pelican, the truck is off-loaded, the pump is connected to one of Pelican's 10,000 gallon tanks and as much is pumped as possible in the time allotted before the ferry must depart, returning to Juneau. That allotted time ranges from one to two hours depending on tides. Hook up and breakdown consumes over 30 minutes. Under these circumstances, pumping time has not significantly decreased the sludge level in the tanks, allowing the health hazard to continue.

Cost Estimated By:

Allen Steward & Kathie Wasserman

City of Pelican

735-2202

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

Pelican, City of

Sewer Equipment Upgrade

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications: No	Administration: \$2,470
Feasibility Plan: No	Engineer/Inspect:
Comprehensive Study: Yes	Construction:
Is this a phased project: Yes	Equipment: \$22,230
	Other:
	Total: \$24,700

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 Certified Primary Operator: Yes Certified Backup Operator: No Drinking Water Compliance: Yes O & M Costs Identified: User Fee Ordinance Adopted: No	Betty McClain P.O. Box 737 Pelican 99832 735-2202
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Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

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

Community: Perryville, Native Village of
Project Title: Water Project
Appropriation Requested: \$200,000

Project Description:

This water project will result in the completion of a new, insulated 100,000 gallon water storage tank, 4,700 feet of 6" HDPE water transmission line, a new surface water infiltration gallery, and completely replumb the existing water treatment facility, including new sand filter media, micron filtration, chlorine and fluoride treatment, and pressure boosting pumps. The project is intended to allow the community to meet and comply with the Surface Water Treatment Rule.

In addition to the original scope, five failing septic systems have been identified. These five systems should be replaced with new septic tanks and drain fields. In those areas where there may be high ground water, individual residential effluent pumping stations may need to be installed.

Project Need:

The original project was needed because of the multiple boil water notices the community has received. There was inadequate water treatment of the surface water resulting in monthly water tests indicating the presence of bacteria. This presented a health hazard to the entire community. The consequence of not improving the water system is the possible transmission of pathogenic microorganisms throughout the community. There is also the pollution hazard of the failing septic systems. These systems have been identified as failing because of the presence of sewage surfacing from existing cribs, septic tanks and drain fields. The consequence of not addressing these potential health hazards is the possible outbreak of disease within the community.

Cost Estimated By:

Kurt D. Sauers

USPHS

729-3546

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

Election District: 40

Local Budget Priority:

Population Served: 102

Community: Pilot Point, City of

Project Title: Septic Systems Rehab., Well Water
Treatmt Upgrades & Landfill Reloc.

Appropriation Requested: \$1,350,000

Project Description:

This project will construct a new community landfill, access road, close the existing landfill and correct five failing septic systems. In addition, it will provide treatment upgrades to wells so residents can obtain water meeting ADEC maximum containment levels. The project will also provide a supply of potable water for seasonal workers and fishermen at the city dock.

Project Need:

A hazard exists because several of the failing sewer systems are daylighting effluent because of poor soil absorption. Without correction, pathogenic organisms remain accessible to insects, rodents, and humans. Residents are without running water, and obtain their water by running a hose from an established piped system or using shallow, hand pumped wells, which are at risk of contamination. A pollution hazard exists because the landfill is located in close proximity to Ugashik Bay shore. The current solid waste disposal system collects waste and transports it in the back of a pickup truck to the landfill. A fence exists around three sides of the landfill, but provides no restriction to access by people or animals. This landfill is nearing capacity and a new site needs to be developed.

Cost Estimated By:

Mike Wolski, Rick Barnett, Gust Griechen, III

ADEC-VSW, HDR Alaska, City of Pilot Point

269-7603, 274-2000, 797-2292

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

Election District: 38
Local Budget Priority: One
Population Served: 530

Community: Pilot Station, City of
Project Title: Water and Sewer Project - Ph IV
Appropriation Requested: \$1,351,000

Project Description:

Phase IV will provide funds to replace 8,000 feet of failing PVC sewer and water mains, and 3,000 feet of associated PVC water and sewer service lines, as well as nine CMP manholes that are no longer watertight and fill with silt each spring, and overflow periodically.

Project Need:

Approximately half of the homes in Pilot Station are not connected to a piped water and sewer system, and must haul water and sewage to and from their homes. Many of the homes that are connected to the piped systems are still served inadequately due to the poor condition of both piped water and sewer systems. Unfortunately, endemic enteric diseases, impetigo, and outbreaks of Hepatitis A have occurred and exist in Pilot Station and the Y-K Delta region. Health authorities have shown a direct correlation between the incidence of these diseases and the level of water and sewer service in a community. Renovation of the existing systems, and connection of homes not currently served by piped systems, can prevent an epidemic and reduce disease incidence in the City of Pilot Station.

Cost Estimated By:

David A. Cramer and Mary Miner, P.E.

Summit Consulting Svc, w/AANHHS, OEH&E

291-2339 and 729-3532

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

Pilot Station, City of

Water and Sewer Project - Ph IV

PLANNING COMPLETED

PROJECT COSTS

Plans & Specifications:

Feasibility Plan: Yes

Comprehensive Study:

Is this a phased project: Yes

Administration: \$25,000

Engineer/Inspect: \$220,000

Construction: \$950,000

Equipment: \$156,000

Other: \$0

Total: \$1,351,000

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

Yes

Will federal money be used: Yes

Amount: 1,200,000

Source: PHS

Date

Received: 99

**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

Art Heckman, Sr.

P. O. Box 5040

Pilot Station 99650-5040

549-3211

Department of Environmental Conservation
FY00 Capital Budget Request
Village Safe Water

Election District: 5

Local Budget Priority:

Population Served: 35

Community: Point Baker Community

Project Title: Community Drinking Water Project

Appropriation Requested: \$0

Project Description:

Note: Community did not provide any estimate of costs or indicate the amount of the appropriation requested.

This project is to develop a source of safe drinking water for the community and to provide pumping, storage, treatment and distribution facilities and/or systems as appropriate.

Project Need:

There is no community water system in Point Baker. There is a small private water system operated by the Point Baker Trading Post, but it serves no households. Individual homes provide their own potable water, in most cases unfiltered and untreated from various sources, all surface water. Any or all of these sources are subject to pollution constantly and to date, no provision has been made to respond to Public Health requirements mandated for drinking water by EPA and ADEC.

Cost Estimated By: