

January 3, 2007

Alaska Department of Natural Resources  
Office of Project Management and Permitting  
550 W. 7<sup>th</sup> Ave., Suite 705  
Anchorage, Alaska 99501

Subject: Atka Water and Sewer Improvements

Dear Ms. Ballard:

The City of Atka together with Alaska Department of Environmental Conservation Village Safe Water is proposing improvements to the community water and sewer systems to meet regulatory requirements and address community and environmental health concerns. Enclosed is the Coastal Project Questionnaire for the Atka Water and Sewer Improvements Project.

We will be applying for two permits from the Department of Environmental Conservation. They will be for discharge of domestic wastewater (Wastewater General Permit, 2003-DB 0096) from the proposed ocean outfalls (north and south). We will also be working with the department for the discharge of backwash water from the water treatment plant during the plan review process. Additional, plan review and approval to construct will be conducted on the system design for the water system, wastewater system, and for disposal of septage sludge in the landfill prior to construction.

The City will be submitting a water rights permit to the Division on Natural Resources (DNR). Based on phone conversations, DNR will also determine if a tide land easement or lease is required after reviewing the coastal project questionnaire.

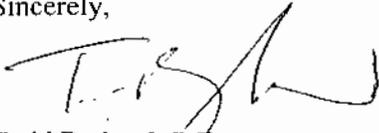
We have also included the two applications to the U.S. Army Corps of Engineers. One is a 404 section 10 application for the discharges associated with the reservoir dam replacement. The second is a nationwide fill permit for the construction of two ocean outfall lines to replace the existing broken outfalls.

A national pollutant discharge elimination system (NPDES) notice of intent will be submitted by the contractor to the EPA 7 days prior to construction, this has not been included in this application.

Additionally, a 7460-1 Hazards form has been submitted and reviewed by the FAA which identifies that the proposed water storage tanks are within a five mile radius of the airport, this form has also not been included in the application. The FAA has responded that the proposed water storage tanks will not be a hazard to air navigation.

If you have questions or need additional information please do not hesitate to call me at 644-2049 or email me at [todd.bethard@hdrinc.com](mailto:todd.bethard@hdrinc.com). Thank you for your efforts on this project.

Sincerely,



Todd Bethard, P.E.  
Project Manager

Enclosures: Coastal Project Questionnaire and Certification Statement  
Alaska Coastal management Program Consistency Evaluation  
Detailed Project Description, Supporting Figures from Plan Set  
Site Plan  
Project Timeline

Copies: Julie Dirks, City of Atka City Administrator  
Raymond O'Neill, VSW Project Manager

# Coastal Project Questionnaire and Certification Statement

All questions must be answered. **If you answer "Yes" to any of the questions, please call that specific department for further instructions to avoid delay in processing your application.** Maps and plan drawings must be included with your packet.

*An incomplete packet will be returned.*

**■ APPLICANT INFORMATION**

<p>1. <u>City of Atka, Julie Dirks, City Administrator</u></p> <p>Name of Applicant P.O. Box 765</p> <hr/> <p>Address Unalaska, AK 99685</p> <hr/> <p>City/State/Zip 907-581-6226</p> <hr/> <p>Daytime Phone 907-581-6317</p> <hr/> <p>Fax Number</p>	<p>2. <u>Todd Bethard, HDR Alaska, Inc.</u></p> <p>Agent (or responsible party if other than applicant) 2525 C Street, Suite 305</p> <hr/> <p>Address Anchorage, Alaska 99503</p> <hr/> <p>City/State/ZipState                      Zip Code 907-644-2000</p> <hr/> <p>Daytime Phone 907-644-2022</p> <hr/> <p>Fax Number</p>
<p>atka2@arctic.net</p> <p>E-mail Address</p>	<p>Tbethard@hdrinc.com</p> <p>E-mail Address</p>

**■ PROJECT INFORMATION**

1. This activity is a:  new project     modification or addition to an existing project
- If this is a modification, do you currently have any State, federal or local approvals for this activity? .....  Yes     No

*Note: Approval means any form of authorization. If "yes," please list below:*

Approval Type	Approval #	Issuance Date	Expiration Date
Wastewater Disposal Permit	9440-DB-005		May 1, 1999
Wastewater Disposal Permit	8221-DB101		Jan.1, 1989

2. If this is a modification, was this project reviewed for consistency with Alaska Coastal Management? .....  No     Yes

Previous State I.D. Number: AK \_\_\_\_\_

Previous Project Name: The above Wastewater disposal permits would have went under ADEC ACMP review.

**■ PROJECT DESCRIPTION**

1. Provide a brief description of your entire project and ALL associated facilities and land use conversions.

The existing surface water reservoir dam will be replaced, community water treatment plant replaced, two existing sewage ocean outfalls replaced including the addition of community septic tanks, two water storage tanks replaced, a new water service line constructed to Atka Pride Seafoods and the existing water distribution system in Old Atka

Village will be replaced with a 6" HDPE water line. The distribution lines will be installed within an existing roadway and will have 3 creek crossings, but the lines will be placed above the existing stream culverts.

Proposed starting date for project: Summer 2007 Proposed ending date for project: Unknown at this time due to funding.

2. Attach the following: • a detailed project description, all associated facilities, and land use conversions, etc. (Be specific, including access roads, caretaker facilities, waste disposal sites, etc.); • a project timeline for completion of all major activities; • a site plan depicting project boundary with all proposed actions; • other supporting documentation to facilitate project review. Note: If the project is a modification, identify existing facilities and proposed changes on the site plan.

**■ PROJECT LOCATION**

1. Attach a copy of the topographical and vicinity map clearly indicating the location of the project. Please include a map title and scale.
2. The project is located in which region (see attached map):  Northern  Southcentral  Southeast  Southwest  within or associated with the Trans-Alaska Pipeline corridor

3. Location of project (Include the name of the nearest land feature or body of water.) Village of Atka

Township T92S Range R176W Section 3,4,9,10,15,16, and 22 Meridian Seward Latitude/Longitude 52.00N 159.54W  
USGS Quad Map \_\_\_\_\_

4. Is the project located in a coastal district? Yes  No  If yes, identify: Aleutians West CRSA  
*(Coastal districts are a municipality or borough, home rule or first class city, second class with planning, or coastal resource service area.) Note: A coastal district is a participant in the State's consistency review process. It is possible for the State review to be adjusted to accommodate a local permitting public hearing. Early interaction with the district is important; please contact the district representative listed on the attached contact list.*
5. Identify the communities closest to your project location: Atka
6. The project is on:  State land or water\*  Federal land  Private land, Native Corporation Lands  Municipal land  Mental Health Trust land  
*\*State land can be uplands, tidelands, or submerged lands to 3 miles offshore. See Question #1 in DNR section. Contact the applicable landowner(s) to obtain necessary authorizations.*

**■ DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) APPROVALS**

- |  | Yes                                 | No                                  |
|--|-------------------------------------|-------------------------------------|
| 1. Will a discharge of wastewater from industrial or commercial operations occur? .....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Will the discharge be connected to an approved sewer system? .....   | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Will the project include a stormwater collection/discharge system? .....   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 2. Do you intend to construct, install, modify, or use any part of a wastewater (sewage or greywater) disposal system? .....                         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| a) If the answer is yes, will the discharge be 500 gallons per day or greater? .....   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b) If constructing a domestic wastewater treatment or disposal system, will the system be located within fill material requiring a COE permit? ..... | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

If you answered yes to a) or b), answer the following:

- 1) What is the distance from the bottom of the system to the top of the subsurface water table? Outfall and septic tanks - Varies down to below the subsurface water table
- 2) How far is any part of the wastewater disposal system from the nearest surface water? Discharge is into the ocean
- 3) Is the surrounding area inundated with water at any time of the year? .....
- 4) How big is the fill area to be used for the absorption system? No absorption system  
*(Questions 1 & 2 will be used by DEC to determine whether separation distances are being met; Questions 3 & 4 relate to the required size of the fill if wetlands are involved.)*

- |   | Yes                                 | No                                  |
|---|-------------------------------------|-------------------------------------|
| 3. Will your project require a mixing zone? .....<br><i>(If your wastewater discharge will exceed Alaska water quality standards, you may apply for a mixing zone. If so, please contact DEC to discuss information required under 18 AAC 70.032.)</i>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 4. a) Will your project result in construction, operation, or closure of a facility for solid waste disposal? <u>Sewage septage will be placed into the Atka Landfill</u> .....<br><i>(Note: Solid waste means drilling wastes, household garbage, refuse, sludge, construction or demolition wastes, industrial solid waste, asbestos, and other discarded, abandoned, or unwanted solid or semi-solid material, whether or not subject to decomposition, originating from any source. Disposal means placement of solid waste on land.)</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b) Will your project result in treatment of solid waste at the site? .....<br><i>(Examples of treatment methods include, but are not limited to: incineration, open burning, baling, and composting.)</i>   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) Will your project result in storage or transfer of solid waste at the site? <u>Sewage septage</u> .....  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| d) Will the project result in storage of more than 50 tons of materials for reuse, recycling, or resource recovery?.....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| e) Will any sewage solids or biosolids be disposed of or land-applied to the site?.....<br><i>(Sewage solids include wastes that have been removed from a wastewater treatment plant system, such as a septic tank, lagoon dredge, or wastewater treatment sludge that contain no free liquids. Biosolids are the solid, semi-solid, or liquid residues produced during the treatment of domestic septage in a treatment works which are land applied for beneficial use.)</i>  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Will your project require application of oil, pesticides, and/or any other broadcast chemicals? .....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 6. a) Will you have a facility with industrial processes that are designed to process no less than five tons per hour and needs air pollution controls to comply with State emission standards? .....   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| b) Will you have stationary or transportable fuel burning equipment, including flares, with a total fuel consumption capacity no less than 50 million Btu/hour?.....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) Will you have a facility with incinerators having a total charging capacity of no less than 1,000 pounds per hour? .....   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| d) Will you have a facility with equipment or processes that are subject to Federal New Source Performance Standards or National Emission Standards for hazardous air pollutants?.....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| i) Will you propose exhaust stack injection? .....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| e) Will you have a facility with the potential to emit no less than 100 tons per year of any regulated air contaminant?.....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| f) Will you have a facility with the potential to emit no less than 10 tons per year of any hazardous air contaminant or 25 tons per year of all hazardous air contaminants? .....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| g) Will you construct or add stationary or transportable fuel burning equipment of no less than 10 million Btu/hour in the City of Unalaska or the City of St. Paul?.....   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| h) Will you construct or modify in the Port of Anchorage a volatile liquid storage tank with a volume no less than 9,000 barrels, or a volatile liquid loading rack with a design throughput no less than 15 million gallons? .....   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| i) Will you be requesting operational or physical limits designed to reduce emissions from an existing facility in an air quality nonattainment area to offset an emission increase from another new or modified facility? .....  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

7. Do you plan to develop, construct, install, or alter a public water system?.....
8. a) Will your project involve the operation of waterborne tank vessels or oil barges that carry crude or non-crude oil as bulk cargo, or the transfer of oil or other petroleum products to or from such a vessel or a pipeline system? .....
- b) Will your project require or include onshore or offshore oil facilities with an effective aggregate storage capacity of greater than 5,000 barrels of crude oil or greater than 10,000 barrels of non-crude oil?.....
- Yes      No
- c) Will you operate facilities on land or water for exploration or production of hydrocarbons? .....

**If you answered "No" to ALL questions in this section, continue to next section.**  
**If you answered "Yes" to ANY of these questions, contact the DEC office nearest you for information and application forms. Please be advised that all new DEC permits and approvals require a 30-day public notice period. DEC Pesticide permits take effect no sooner than 40 days after the permit is issued.**

Based on your discussion with DEC, please complete the following:

Types of project approvals or permits needed and name of individual you contacted.	Date application submitted
Drinking water plan approval, water tanks, dam construction, distribution lines	Prior to construction
Wastewater design plan approval, outfalls and septic tanks	Prior to construction
Wastewater General Permit, 2003-DB0096, sewage outfalls	Concurrent with this questionnaire
Solid waste approval for disposal of septage sludge into landfill	

9. Does your project qualify for a general permit for wastewater or solid waste?.....
- Note: A general permit is an approval issued by DEC for certain types of routine activities.*

**If you answered "Yes" to any questions in this section and are not applying for DEC permits, indicate reason:**

- \_\_\_\_\_ (DEC contact) told me on \_\_\_\_\_ that no DEC approvals are required on this project because \_\_\_\_\_
- Other:** \_\_\_\_\_

**■ DEPARTMENT OF FISH AND GAME (DFG) APPROVALS** Yes      No

1. Is your project located in a designated State Game Refuge, Critical Habitat Area or State Game Sanctuary? .....
2. Does your project include construction/operation of a salmon hatchery? .....
3. Does your project affect, or is it related to, a previously permitted salmon hatchery? .....
4. Does your project include construction of an aquatic farm? .....

**If you answered "No" to ALL questions in this section, continue to next section.**  
**If you answered "Yes" to ANY questions under 1-4, contact the ADF&G Commercial Fisheries Division headquarters for information and application forms**

Based on your discussion with ADF&G, please complete the following:

Types of project approvals or permits needed. Date application submitted


If you answered "YES" to any questions in this section and are not applying for ADF&G permits, indicate reason:

\_\_\_\_\_ (ADF&G contact) told me on \_\_\_\_\_ that no ADF&G approvals are required on this project because \_\_\_\_\_

Other: \_\_\_\_\_

■ DEPARTMENT OF NATURAL RESOURCES (DNR) APPROVALS

Yes No

1. Is the proposed project on State-owned land or water or will you need to cross State-owned land for access? ("Access" includes temporary access for construction purposes. *Note: In addition to State-owned uplands, the State owns almost all land below the ordinary high water line of navigable streams, rivers and lakes, and below the mean high tide line seaward for three miles.*) .....  
  - a) Is this project for a commercial activity?.....
  
2. Is the project on Alaska Mental Health Trust land (AMHT) or will you need to cross AMHT land? *Note: Alaska Mental Health Trust land is not considered State land for the purpose of ACMP reviews.* .....
  
3. Do you plan to dredge or otherwise excavate/remove materials on State-owned land?.....  

Location of dredging site if different than the project site: \_\_\_\_\_

Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_ Meridian \_\_\_\_\_ USGS Quad Map \_\_\_\_\_
  
4. Do you plan to place fill or dredged material on State-owned land? .....  

Location of fill disposal site if other than the project site: \_\_\_\_\_

Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_ Meridian \_\_\_\_\_ USGS Quad Map \_\_\_\_\_

Source is on:  State Land  Federal Land  Private Land  Municipal Land
  
5. Do you plan to use any of the following State-owned resources: .....  

**Timber:** Will you harvest timber? Amount: \_\_\_\_\_

**Materials such as rock, sand or gravel, peat, soil, overburden, etc.:**

Which material? \_\_\_\_\_ Amount: \_\_\_\_\_

Location of source:  Project site  Other, describe: \_\_\_\_\_

Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_ Meridian \_\_\_\_\_ USGS Quad Map \_\_\_\_\_
  
6. Do you plan to divert, impound, withdraw, or use any fresh water, except from an existing public water system or roof rain catchment system (regardless of land ownership)?.....  

Amount (maximum daily, not average, in gallons per day):

Source: \_\_\_\_\_ Intended Use: \_\_\_\_\_

If yes, will your project affect the availability of water to anyone holding water rights to that water? .....

7. Do you plan to build or alter a dam (regardless of land ownership)?.....
8. Do you plan to drill a geothermal well (regardless of land ownership)?.....
9. At any one site (regardless of land ownership), do you plan any of the following?.....
- Mine five or more acres over a year's time
  - Mine 50,000 cubic yards or more of materials (rock, sand or gravel, soil, peat, overburden, etc.) over a year's time
  - Have a cumulative unreclaimed mined area of five or more acres

If yes to any of the above, contact DNR about a reclamation plan.

If you plan to mine less than the acreage/amount stated above and have a cumulative unreclaimed mined area of less than five acres, do you intend to file a voluntary reclamation plan for approval? .....  **Yes**  **No**

10. Do you plan to explore for or extract coal?.....
11. a) Will you explore for or produce oil and/or gas?.....
- b) Will you conduct surface use activities on an oil and/or gas lease or within an oil and/or gas unit? .....
12. Will you investigate, remove, or impact historical or archaeological or paleontological resources (anything over 50 years old) on State-owned land? .....
13. Is the proposed project located within a known geophysical hazard area? .....
- Note: 6 AAC 80.900(9) defines geophysical hazard areas as "those areas which present a threat to life or property from geophysical or geological hazards, including flooding, tsunami run-up, storm surge run-up, landslides, snowslides, faults, ice hazards, erosion, and littoral beach process." "known geophysical hazard area" means any area identified in a report or map published by a federal, state, or local agency, or by a geological or engineering consulting firm, or generally known by local knowledge, as having known or potential hazards from geologic, seismic, or hydrologic processes.*

14. Is the proposed project located in a unit of the Alaska State Park System? .....
15. Will you work in, remove water or material from, or place anything in, a stream, river or lake? (This includes work or activities below the ordinary high water mark or on ice, in the active flood plain, on islands, in or on the face of the banks, or, for streams entering or flowing through tidelands, above the level of mean lower low tide.)  
*Note: If the proposed project is located within a special flood hazard area, a floodplain development permit may be required. Contact the affected city or borough planning department for additional information and a floodplain determination.)* .....

Name of waterbody: Unnamed stream

16. Will you do any of the following: .....
- Please indicate below:*
- Build a dam, river training structure, other instream impoundment, or weir
  - Use water
  - Pump water into or out of stream or lake (including dry channels)
  - Divert or alter a natural stream channel
  - Change water flow or the stream channel
  - Introduce silt, gravel, rock, petroleum products, debris, brush, trees, chemicals, or other organic/inorganic material, including waste of any type, into water
  - Alter, stabilize or restore banks of a river, stream or lake (provide number of linear feet affected along the bank(s))
  - Mine, dig in, or remove material, including woody debris, from beds or banks of a waterbody
  - Use explosives in or near a waterbody
  - Build a bridge (including an ice bridge)
  - Use a stream, lake or waterbody as a road (even when frozen), or cross a stream with tracked or wheeled vehicles, log-dragging or

- excavation equipment (backhoes, bulldozers, etc.)
- Install a culvert or other drainage structure
- Construct, place, excavate, dispose or remove any material below the ordinary high water of a waterbody
- Construct a storm water discharge or drain into a waterbody

- Place pilings or anchors
- Construct a dock
- Construct a utility line crossing
- Maintain or repair an existing structure
- Use an instream in-water structure not mentioned here

If you answered "No" to ALL questions in this section, continue to next section.

If you answered "Yes" to ANY questions under 1-16, contact the Area DNR, office for information and application forms.

Based on your discussion with DNR, please complete the following:

Types of project approvals or permits needed.	Date application submitted
Water Rights permit	Concurrent with this questionnaire
Tide Land lease or Easement	DNR will identify which authorization after reviewing this questionnaire

If you answered "Yes" to any questions in this section and are not applying for DNR permits, indicate reason:

- Cindy Anderson, DNR Habitat (DNR contact) told me on 4/14/06 that no DNR Title 41 approvals are required on this project because the reservoir stream is not catalogued. On 4/13/06, Adam Smith, DNR Lands, stated DNR will determine if easement or lease is required after reviewing the CZM questionnaire and will notify applicant.

**FEDERAL APPROVALS**

Yes No

**U.S. Army Corps of Engineers (COE)**

1. Will you dredge or place structures or fills in any of the following:
- tidal (ocean) waters? streams? lakes? wetlands\*? .....  Yes  No
- If yes, have you applied for a COE permit? .....  Yes  No

Date of submittal: Concurrent with this form for reservoir dam, 4/19/06 for outfalls (nationwide).

Name of COE contact: Leroy Phillips

*(Note: Your application for this activity to the COE also serves as application for DEC Water Quality Certification.)*

*\*If you are not certain whether your proposed project is in a wetlands (wetlands include muskegs), contact the COE, Regulatory Branch at 907-753-2712 for a wetlands determination (outside the Anchorage area call toll free 1-800-478-2712)*

**Bureau of Land Management (BLM)**

2. Is the proposed project located on BLM land, or will you need to cross BLM land for access? .....  Yes  No
- If yes, have you applied for a BLM permit or approval? .....  Yes  No

Date of submittal: \_\_\_\_\_

Name of BLM contact: \_\_\_\_\_

**U.S. Coast Guard (USCG)**

3. a) Do you plan to construct a bridge or causeway over tidal (ocean) waters, or navigable rivers,

- streams or lakes? .....
- b) Does your project involve building an access to an island? .....
- c) Do you plan to site, construct, or operate a deepwater port? .....
- If yes, have you applied for a USCG permit? .....

Date of submittal: \_\_\_\_\_  
 Name of USCG contact: \_\_\_\_\_

**U.S. Environmental Protection Agency (EPA)**

- 4. a) Will the proposed project have a discharge to any waters? .....
- b) Will you dispose of sewage sludge (contact EPA at 206-553-1941)? Not into the waters .....
- If you answered yes to a) or b), have you applied for an EPA National Pollution Discharge Elimination System (NPDES) permit? Getting permits from ADEC .....

Date of submittal: Concurrent with this questionnaire \_\_\_\_\_  
 Name of EPA contact: \_\_\_\_\_

*(Note: For information regarding the need for an NPDES permit, contact EPA at 1-800-424-4372)*

- |  | Yes                      | No                                  |
|--|--------------------------|-------------------------------------|
| c) Will construction of your project expose 5 or more acres of soil? <i>(This applies to the total amount of land disturbed, even if disturbance is distributed over more than one season, and also applies to areas that are part of a larger common plan of development or sale.)</i> <u>Approximately 2 acres</u> ..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Is your project an industrial facility that will have stormwater discharge directly related to manufacturing, processing, or raw materials storage areas at an industrial plant?.....   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| If you answered yes to c) or d), your project may require an NPDES Stormwater permit. Contact EPA at 206-553-8399.   |                          |                                     |

**Federal Aviation Administration (FAA)**

- 5. a) Is your project located within five miles of any public airport? .....
- b) Will you have a waste discharge that is likely to decay within 5,000 feet of any public airport? .....
- If yes, please contact the Airports Division of the FAA at 907-271-5438.

**Federal Energy Regulatory Commission (FERC)**

- 6. a) Does the project include any of the following:
  - 1) a non-federal hydroelectric project on any navigable body of water .....
  - 2) a location on federal land (including transmission lines) .....
  - 3) utilization of surplus water from any federal government dam .....
- b) Does the project include construction and operation, or abandonment of natural gas pipeline facilities under sections (b) and (c) of the Federal Power Act (FPA)? .....
- c) Does the project include construction for physical interconnection of electric transmission facilities under section 202 (b) of the FPA? .....
- If you answered yes to any questions under number 6, did you apply for a permit from FERC? .....

Date of submittal: \_\_\_\_\_  
 Name of FERC contact: \_\_\_\_\_

*(Note: For information, Div. Hydropower-Environment and Engineering contact: Vince Yearek 202-502-6174 or Mike Henry 503-944-6762, 202-502 8700; (for Natural Gas Projects) Division of Pipeline Certificate 202-502-8625; for Alaska projects contact Richard Foley - 202-502-8955)*

**U.S. Forest Service (USFS)**

- 7. a) Does the proposed project involve construction on USFS land? .....

- b) Does the proposed project involve the crossing of USFS land with a water line? .....    
 If the answer to either question is yes, did you apply for a USFS permit or approval?.....

Date of submittal: \_\_\_\_\_  
 Name of USFS contact: \_\_\_\_\_

8. Have you applied for any other federal permits or authorizations?.....

AGENCY	APPROVAL TYPE	DATE SUBMITTED
Corps of Engineers	Nationwide fill permit for outfalls	April 19, 2006
Corps of Engineers	404/section 10 for dam	Concurrent with this questionnaire
FAA	Form 7460-1, Hazards	April 21, 2006
EPA	Construction NPDES NOI	7 days prior to construction

**Please be advised that the CPQ identifies permits subject to a consistency review. You may need additional permits from other agencies or the affected city and/or borough government to proceed with your activity.**

**Certification Statement**

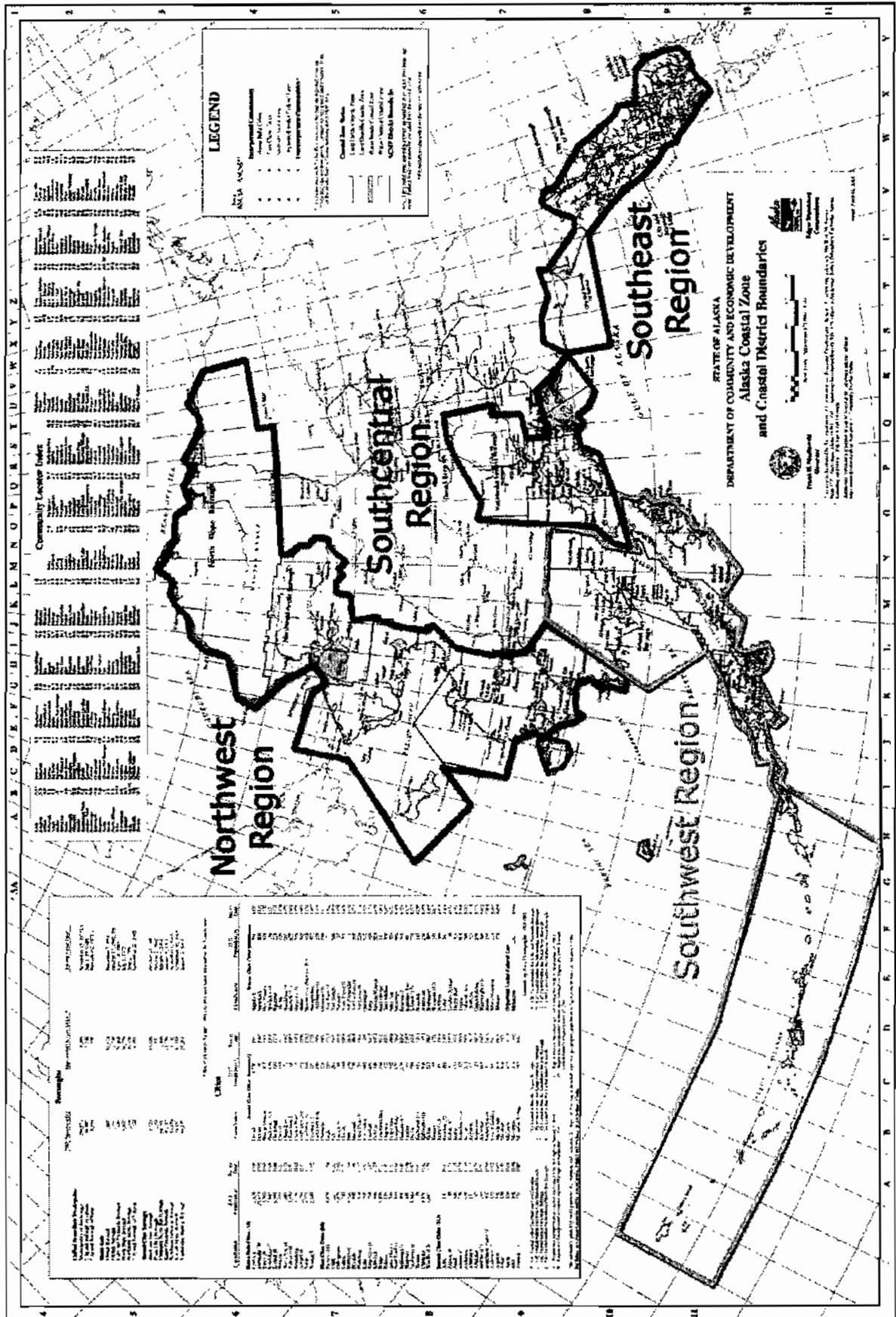
The information contained herein is true and complete to the best of my knowledge. I certify that the proposed activity complies with, and will be conducted in a manner consistent with, the Alaska Coastal Management Program.

*Julie Hicks* \_\_\_\_\_ 12/21/06  
 Signature of Applicant or Agent Date

*Note:* Federal agencies conducting an activity that will affect the coastal zone are required to submit a federal consistency determination, per 15 CFR 930, Subpart C, rather than this certification statement. ACMP has developed a guide to assist federal agencies with this requirement. Contact ACMP to obtain a copy.

This certification statement will not be complete until all required State and federal authorization requests have been submitted to the appropriate agencies.

- **To complete your packet, please attach your State permit applications and copies of your federal permit applications to this questionnaire.**



## ALASKA COASTAL MANAGEMENT PROGRAM CONSISTENCY EVALUATION

Pursuant to the following evaluation, the project as proposed is consistent with applicable ACMP statewide standards and affected coastal resource district enforceable policies (copies of the policies are available on the ACMP web site at <http://www.alaskacoast.state.ak.us>).

**DATE ISSUED:** JUNE 19, 2006

**PROJECT TITLE:** CITY OF ATKA SANITATION FACILITIES

**STATE ID. NO.**

### **AFFECTED COASTAL RESOURCE DISTRICT(S)**

Aleutians West Coastal Resource Service Area (AWCRSA). The following ACMP Consistency Evaluation measures the proposed project to the standards of the AWCRSA. This evaluation utilizes a template which focuses on the Alaska State ACMP Standards, however, the proposed project was measured against the District Standards which may differ (be more restrictive) from the State Standards. **The District Standards are denoted alphabetically (i.e. A-1) and titled in this evaluation, but not fully described. Please see the AWCRSA for full description of each district standard.**

The City of Atka sanitation facilities public project consists of the following five actions:

1. The existing surface water reservoir dam will be replaced. This will require a Corps of Engineers Individual Permit and design plan approval from the Alaska Department of Environmental Conservation (ADEC). The owner is also seeking a Water Rights Permit from the Alaska Department of Natural Resources (ADNR).
2. Two existing broken domestic sewage outfalls will be replaced and community septic tanks added to each line. The outfalls will be permitted under a Corps nationwide permit and the wastewater discharge will be permitted by the ADEC under a General Permit. ADEC will also issue design plan approval for these lines. An ADNR Tideland Lease or Easement will be obtained for these outfalls.
3. A new water treatment facility will be constructed. This will entail constructing a new building over the existing foundation of the water treatment plant. New water treatment equipment will be designed and installed to provide drinking water that can meet the Safe Drinking Water Act regulatory standards. ADEC will need to approve the plans for the new water treatment facility.
4. New drinking water distribution lines including service lines and fire hydrants will be constructed or existing ones replaced. No permits are required for this action, only design plan approval from ADEC.
5. Two water storage tanks will be replaced. This action will not require any permits, only ADEC design plan approval.

In addition to the above permits, the applicant shall obtain an Environmental Protection Agency (EPA) NPDES permit for Construction related runoff. Said permit also requires that the contractor create a Stormwater Pollution Prevention Plan (SWPPP) describing mitigation and best management practices that will be used during construction to minimize adverse environmental impacts.

## **CHAPTER 112. STATEWIDE STANDARDS OF THE ALASKA COASTAL MANAGEMENT PROGRAM**

### **Article 2. Uses & Activities**

#### **11 A.A.C. 112.200. Coastal development**

##### ***Standard***

- (a) In planning for and approving development in or adjacent to coastal waters, districts and state agencies shall manage coastal land and water uses in such a manner that those uses that are economically or physically dependent on a coastal location are given higher priority when compared to uses that do not economically or physically require a coastal location.*
- (b) District and state agencies shall give, in the following order, priority to*
  - (1) water-dependent uses and activities;*
  - (2) water-related uses and activities; and*
  - (3) uses and activities which are neither water-dependent nor water-related for which there is no practicable inland alternative to meet the public need for the use or activity.*
- (c) The placement of structures and the discharge of dredged or fill material into coastal water must, at a minimum, comply with the standards contained in 33 C.F.R. Parts 320-323, revised as of July 1, 2003.*

##### **Evaluation**

- (a) A-1 Water Dependent and Water Related Activities:** The project involves upgrading and replacing community sanitation facilities which may be neither water dependent nor water related, but are necessary to meet the public need. Said facilities are being located on the same site as those facilities they are replacing, thus no new shore line or waterfront areas are being impacted.
- (b) A-2 through A-4 (Mitigation, Multiple Use and Compatibility):** A Corps of Engineers permit application will be submitted for the dam reconstruction and the project shall meet Corps of Engineers regulations. The new outfalls will be constructed under a Corps of Engineers Nationwide permit. All potential adverse impacts will be addressed. All facilities other than the new water supply lines are replacement facilities and will be constructed adjacent to the existing facilities which they are replacing. The project will meet all aspects of these standards.
- (c) A-5 Dredge and Fill Requirements:** The project has been designed to meet all 6 steps of this standard.
- (d) A-6 Disposal of Dredge Spoil:** Any dredged material associated with the dam reconstruction and the outfall replacements shall be incorporated within the new structure or discharged to uplands.
- (e) A-7 Navigation Obstructions:** Marking buoys will be located at the ends of the outfall lines to warn boaters of their presence. Construction of the outfall lines will be timed so as not to conflict with commercial fishing operations.
- (f) A-8 Floating Facilities:** There will be no floating facilities.

- (g) A-9 Monitoring and Compliance Enforcement and A-10 Monitoring Priorities deal with Federal and State monitoring.  
(h) A-11 through A-15 are administrative policies.

Consistent                       Inconsistent                       Not Applicable

#### **11 A.A.C. 112.210. Natural hazard areas**

##### ***Standard***

- (a) *In addition to those identified in 11 A.A.C. 112.900, the department, or a district in a district plan, may designate other natural processes or adverse conditions that present a threat to life or property in the coastal area as natural hazards. Such designations must provide the scientific basis for designating the natural process or adverse condition as a natural hazard in the coastal area, along with supporting scientific evidence for the designation.*
- (b) *Areas likely to be affected by the occurrence of a natural hazard may be designated as natural hazard areas by a state agency or, under 11 A.A.C. 114.250(b), by a district.*
- (c) *Development in a natural hazard area may not be found consistent unless the applicant has taken appropriate measures in the siting, design, construction and operation of the proposed activity to protect public safety, services and the environment from potential damage caused by known natural hazards.*
- (d) *For purposes of (c) of this section, "appropriate measures in the siting, design, construction and operation of the proposed activity" means those measures that, in the judgment of the coordinating agency, in consultation with the department's Division of Geological and Geophysical Surveys, the Department of Community and Economic Development as state coordinating agency for the National Flood Insurance Program under 44 C.F.R. 60.25, and other local and state agencies with expertise,*
- (1) satisfy relevant codes and safety standards; or*  
*(2) in the absence of such codes and standards;*
- (A) the project plans are approved by an engineer who is registered in the state and has engineering experience concerning the specific natural hazard; or*  
*(B) the level of risk presented by the design of the project is low and appropriately addressed by the project plans.*

##### **Evaluation**

- (a) G-1 Design and Siting Criteria: The dam is located more than a mile from any development and holds a minimal amount of water, thus if destroyed by earthquake, would not adversely affect residences down stream. A geohazard effect on the outfall lines could cause breakage, similar to the present situation, but relocation would not minimize this potential.
- (b) G-2 Coastal Process: No material will be mined from the coastal area and the outfall lines will be buried and rip rapped to the extreme low later line.
- (c) G-3 Stream Flooding: N/A
- (d) G-4 Erosion: The dam shall be stabilized against erosion on both the downstream and upstream side. The outfall lines will be stabilized against erosion at the beach and weighted below the extreme high water line.
- (e) G-5 Seismic Hazards is an administrative policy.
- (f) G-6 Emergency Response Program is an administrative policy

Consistent                       Inconsistent                       Not Applicable

**11 A.A.C. 112.220. Coastal access**

***Standard***

*District and state agencies shall ensure that projects maintain and, where appropriate, increase public access to, from, and along coastal water.*

**Evaluation:**

This project will not affect public access to, from or along coastal water.

Consistent                       Inconsistent                       Not Applicable

**11 A.A.C. 112.230. Energy facilities**

***Standard***

*(a) The siting and approval of major energy facilities by districts and state agencies must be based, to the extent practicable, on the following standards:*

- (1) site facilities so as to minimize adverse environmental and social effects while satisfying industrial requirements;*
- (2) site facilities so as to be compatible with existing and subsequent adjacent uses and projected community needs;*
- (3) consolidate facilities;*
- (4) consider the concurrent use of facilities for public or economic reasons;*
- (5) cooperate with landowners, developers, and federal agencies in the development of facilities;*
- (6) select sites with sufficient acreage to allow for reasonable expansion of facilities;*
- (7) site facilities where existing infrastructure, including roads, docks, and airstrips, is capable of satisfying industrial requirements;*
- (8) select harbors and shipping routes with least exposure to reefs, shoals, drift ice, and other obstructions;*
- (9) encourage the use of vessel traffic control and collision avoidance systems;*
- (10) select sites where development will require minimal site clearing, dredging and construction in productive habitats;*
- (11) site facilities so as to minimize the probability, along shipping routes, of spills or other forms of contamination which would affect fishing grounds, spawning grounds, and other biologically productive or vulnerable habitats, including marine mammal rookeries and hauling out grounds and waterfowl nesting areas;*
- (12) site facilities so that design and construction of those facilities and support infrastructures in coastal areas of Alaska will allow for the free passage and movement of fish and wildlife with due consideration for historic migratory patterns;*
- (13) site facilities so that areas of particular scenic, recreational, environmental, or cultural value, identified in district plans, will be protected*
- (14) site facilities in areas of least biological productivity, diversity, and vulnerability and where effluents and spills can be controlled or contained;*
- (15) site facilities where winds and air currents disperse airborne emissions that cannot be captured before escape into the atmosphere;*

- (16) select sites so that associated vessel operations or activities will not result in overcrowded harbors or interfere with fishing operations and equipment.*
- (b) The uses authorized by the issuance of state and federal leases, easements, contracts, rights-of-way or permits for mineral and petroleum resource extraction are uses of state concern.*

**Evaluation**

- (a) J-1 State Standards: There are no major energy or industrial facilities associated with the project.
- (b) J-2 Oil and Gas Development: N/A
- (c) J-3 and J-4 are administrative policy

Consistent                       Inconsistent                       Not Applicable

**11 A.A.C. 112.240. Utility routes and facilities**

**Standard**

- (a) Utility routes and facilities must be sited inland from beaches and shorelines unless*
- (1) the route or facility is water-dependent or water related;*
  - (2) no practicable inland alternative exists to meet the public need for the route or facility.*
- (b) Utility routes and facilities along the coast must avoid, minimize or mitigate*
- (1) alterations in surface and ground water drainage patterns;*
  - (2) disruption in known or reasonably foreseeable wildlife transit;*
  - (3) blockage of existing or traditional access.*

**Evaluation**

(a) All new and replacement water lines will be located within the existing road bed. The replacement water supply tanks shall be located adjacent to and replace the existing ones. The new sewage outfall lines will be installed at the existing damaged line locations. The water reservoir dam shall be located at the existing dam site. The sewage outfall lines meet the above criteria.

Consistent                       Inconsistent                       Not Applicable

**11 A.A.C. 112.250. Timber harvest & processing**

**Standard**

*A.S. 41.17 (Forest Resources and Practices Act) and the regulations adopted under that chapter with respect to the harvest and processing of timber are incorporated into the program and constitute the components of the program with respect to those purposes.*

**Evaluation**

(a) There will be no timber harvesting or processing associated with the project.

Consistent                       Inconsistent                       Not Applicable

**11 A.A.C. 112.260. Sand & gravel extraction**

**Standard**

*Sand and gravel may be extracted from coastal waters, intertidal areas, barrier islands and spits if there is no practicable alternative to coastal extraction that will meet the public need for the sand or gravel.*

**Evaluation**

- (a) K-1 Siting of Material Sources: Sand and gravel shall either be hauled into the area, or removed from existing approved gravel pits or new upland sites. Beaches shall not be used as a source of material. Material excavated at the beach site for outfall installation shall be reused at that site.
- (b) K-2 In-stream Mining: Material shall not be taken from streams. Some material shall be removed from the stream at the dam site, but only to allow for dam construction.
- (c) K-3 Best Management Practices: Said BMPs shall be observed during construction.
- (d) K-4 Mining in Fish Habitat: Sand and Gravel shall not be removed from locations used to provide spawning or over-wintering habitat for anadromous fish.
- (e) K-5 Overburden Disposal: There is very little overburden associated with this project. Said overburden shall be spread at the specific construction site.
- (f) K-6 Reclamation and Restoration: If the development of upland gravel sources is necessary, this standard will be honored.
- (g) K-7, K-8, and K-9 are administrative policies.

Consistent                       Inconsistent                       Not Applicable

**11 A.A.C. 112.270. Subsistence**

**Standard**

- (a) *A project within a subsistence use area designated by the department or under 11 A.A.C. 114.250(g) must avoid or minimize impacts to subsistence uses of coastal resources.*
- (b) *For a project within a subsistence use area designated under 11 A.A.C. 114.250(g), the applicant shall submit an analysis or evaluation of reasonably foreseeable adverse impacts of the project on subsistence use as part of*
  - (1) *a consistency review packet submitted under 11 A.A.C. 110.215; and*
  - (2) *a consistency evaluation under 15 C.F.R. 930.39, 15 C.F.R. 930.58, or 15 C.F.R. 930.76.*
- (c) *Repealed 10/29/2004, Register 172.*
- (d) *Except in nonsubsistence areas identified under A.S. 16.05.258, the department may, after consultation with the appropriate district, federally recognized Indian tribes, Native corporations, and other appropriate persons or groups, designate areas in which a subsistence use is an important use of coastal resources as demonstrated by local usage.*
- (e) *For purposes of this section, "federally recognized Indian tribe," "local usage," and "Native corporation" have the meanings given in 11 A.A.C. 114.990.*

**Evaluation**

- (a) D-1 State Standards: The subject project shall not affect any substance harvesting.
- (b) D-2 Development Impacts: This project concerns facilities being located at the same location as those they are replacing.
- (c) D-3 Access: The project shall not affect customary access to the area. As the dam project entails the reconstruction of a drinking water dam and regulations concerning access to a drinking water reservoir have already been established, current use of that area will not be altered by this project. The outfall lines will be buried in the area above the extreme low tide line and

will be weighted to the sea floor from there to the end points. Buoys will be installed at the ends of the outfalls to notify boats of the lines existence.

(d) D-4 and D-5 are administrative policies.

Consistent                       Inconsistent                       Not Applicable

### **11 A.A.C. 112.280. Transportation routes & facilities**

#### ***Standard***

*Transportation routes and facilities must avoid, minimize or mitigate*

- (1) alterations in surface and ground water drainage patterns;*
- (2) disruption in known or reasonably foreseeable wildlife transit; and*
- (3) blockage of existing or traditional access.*

#### **Evaluation**

- (1) E-1 Stream Crossings: The dam project is a replacement of an existing dam which has already limited fish passage in that area. This project will not cause a greater habitat disturbance. The sewage outfall project does not effect any streams.
- (2) E-2 Maintaining Traditional Public Access: Access at the dam is already minimized due to the nature of the project, construction of a drinking water reserve. Upgrading of the dam will not further effect access. The outfall lines will not restrict access.
- (3) E-3 Off-Road Access: Said access will be minimized during the dam reconstruction to the dam site itself. There is no off road access involved in the outfall construction except in areas already impacted.
- (4) E-4 Shoreline Setback: There are no above ground structures associated with the outfall project that lie within 25' of MHW mark of the ocean.
- (5) E-5 Siting and Scheduling: The project shall be timed so as not to interfere with commercial fishing, fish migration, or coastal resource uses. As this project is a rebuild of an existing facility, b) and c) of this standard is N/A.
- (6) E-6, E-7, and E-8 are administrative policies.

Consistent                       Inconsistent                       Not Applicable

### **Article 3. Resources & Habitats**

#### **11 A.A.C. 112.300. Habitats**

#### ***Standard***

*(a) Habitats in the coastal area which are subject to the program are*

- (1) offshore areas;*
- (2) estuaries;*
- (3) wetlands;*
- (4) tidflats;*
- (5) rocky islands and seacliffs;*
- (6) barrier islands and lagoons;*
- (7) exposed high energy coasts;*
- (8) rivers, streams and lakes and the active floodplains and riparian management areas of those rivers, stream and lakes; and*
- (9) important habitat.*

*(b) The following standards apply to the management of the habitats identified in (a) of this section:*

- (1) offshore areas must be managed to avoid, minimize or mitigate significant adverse impacts to competing uses such as commercial, recreational or subsistence fishing, to the extent that those uses are determined to be in competition with the proposed use;*
- (2) estuaries must be managed to avoid, minimize or mitigate significant adverse impacts to*
  - (A) adequate water flow and natural water circulation patterns; and*
  - (B) competing uses such as commercial, recreational or subsistence fishing, to the extent that those uses are determined to be in competition with the proposed use;*
- (3) wetlands must be managed to avoid, minimize or mitigate significant adverse impacts to water flow and natural drainage patterns;*
- (4) tideflats must be managed to avoid, minimize or mitigate significant adverse impacts to*
  - (A) water flow and natural drainage patterns; and*
  - (B) competing uses such as commercial, recreational or subsistence uses, to the extent that those uses are determined to be in competition with the proposed use;*
- (5) rocky islands and sea cliffs must be managed to*
  - (A) avoid, minimize or mitigate significant adverse impacts to habitat used by coastal species; and*
  - (B) avoid the introduction of competing or destructive species and predators;*
- (6) barrier islands and lagoons must be managed to avoid, minimize or mitigate significant impacts*
  - (A) to flows of sediments and water;*
  - (B) from the alteration or redirection of wave energy or marine currents that would lead to the filling in of lagoons or the erosion of barrier islands; and*
  - (C) from activities that would decrease the use of barrier islands by coastal species, including polar bears and nesting birds;*
- (7) exposed high-energy coasts must be managed to avoid, minimize or mitigate significant adverse impacts*
  - (A) to the mix and transport of sediments; and*
  - (B) from redirection of transport processes and wave energy;*
- (8) rivers, streams and lakes must be managed to avoid, minimize or mitigate significant adverse impacts to*
  - (A) natural water flow;*
  - (B) active floodplains; and*
  - (C) natural vegetation within riparian management areas; and*
- (9) important habitat*
  - (A) designated under 11 A.A.C. 114.250(h) must be managed for the special productivity of the habitat in accordance with district enforceable policies adopted under 11 A.A.C. 114.270(g); or*

*(B) identified under (c)(1)(B) or (C) of this section must be managed to avoid, minimize or mitigate significant adverse impacts to the special productivity of the habitat.*

*(c) For purposes of this section,*

*(1) "important habitat" means habitats listed in (a)(1)-(8) of this section and other habitat in the coastal area that are*

*(A) designated under 11 A.A.C. 114.250(h);*

*(B) identified by the department as a habitat*

*(i) the use of which has a direct and significant impact on coastal water;*  
*and*

*(ii) that is shown by written scientific evidence to be biologically and significantly productive; or*

*(C) identified as state game refuges, state game sanctuaries, state range areas or fish and game critical habitat under A.S. 16.20;*

*(2) "riparian management area" means the area along or around a waterbody within the following distances, measured from the outermost extent of the ordinary high water mark of the waterbody:*

*(A) for the braided portions of a river or stream, 500 feet on either side of the waterbody;*

*(B) for split channel portions of a river or stream, 200 feet on either side of the waterbody;*

*(C) for single channel portions of a river or stream, 100 feet on either side of the waterbody;*

*(D) for a lake, 100 feet of the waterbody.*

### **Evaluation**

(a) B-1 State Standards: According to ADNR Habitat there are no anadromous fish residing or utilizing the creek on which the dam will be constructed. A Habitat title 41 permit will not be required for any aspects of the project.

(b) B-2 Upland Habitat: Upland habitat will not be affected by the project. An EPA NPDES Construction Runoff permit will be obtained and a SWPPP plan will be developed by the contractor prior to construction to address water quality mitigation measures.

(c) B-3 Anadromous Fish Waters: The dam will not be constructed on a Anadromous Fish stream. The outfall line construction activities should not impact said fish.

(d) B-4 Maintenance of Fish Passage: Maintenance of fish passage is not necessary as no fish utilize the stream at or above the dam location. In-water work associated with outfall line construction shall be timed so as not to impact anadromous fish movements.

(e) B-5 Instream Flow: Instream flow at the dam site will not be modified from its present rate.

(f) B-6 Water Removal from Fish Stream: Dam construction will not require the removal of water from a fish stream.

(g) B-7 Geophysical Surveys: There will be no geophysical surveys associated with this project.

(h) B-8 Raptor Nest Sites: There are no raptor nest sites within 300' of the work site.

(i) B-9 Marine Mammal Haul-outs and Seabird Colonies: There are no marine mammal haul-outs or seabird colonies near the work site.

(j) B-10 Threatened and Endangered Species: No endangered or threatened species will be affected by the replacement of the dam or outfall replacement.

(k) B-11 Bank Stabilization: The dam and associated cut areas will be stabilized by riprap against erosion. During dam construction, all work areas will be isolated from the flowing waters of the stream. The sewage outfall lines will be buried with riprap to the just below the extreme low water line, thus there will be minimal inwater work associated with this activity.

(l) B-12 Disturbance by Aircraft and B-13 Update of Resource Information are N/A.

Consistent

Inconsistent

Not Applicable

## **11 A.A.C. 112.310. Air, Land & Water Quality**

### **Standard**

*Notwithstanding any other provision of this chapter, the statutes and regulations of the Department of Environmental Conservation with respect to the protection of air, land, and water quality, identified in A.S. 46.40.040(b) are incorporated into the program and, as administered by that department, constitute the exclusive components of the program with respect to those purposes.*

### **Evaluation**

(a) C-1 State Standards: ADEC water quality standards shall be maintained during and post construction. The dam construction area will be isolated from the flowing waters of the creek by the temporary placement of sandbag cofferdams, during construction. Trenching for the outfall lines will only occur during low water, minimizing in-water work.

(b) C-2 Maintain Water Quality Criteria: There may be some temporary siltation occurring during cofferdam construction and installation of the outfall line just seaward of the extreme water line.

(c) C-3 Wastewater Discharge: There are no wastewater discharges associated with the dam construction. Wastewater discharged through the outfalls will be as permitted by the ADEC.

(d) C-4 Shoreline Developments and C-5 Environmental Protection Technology are N/A

(e) C-6 Hazardous Substances: The storage and handling of such will be addressed in the contractors SWPPP plan prepared for EPA NPDES Construction Runoff permit.

(g) C-7 Siltation and Sedimentation: Cofferdams will be constructed to minimize in-water work at the dam site, and the contractors SWPPP plan will address runoff during all construction.

(h) C-8 Refuse Disposal: N/A.

(i) C-9 Sewage Disposal: Design of the sewage outfalls will be approved by the ADEC prior to construction.

(j) C-10 Storage of Petroleum and Petroleum Products: There is no new petroleum facilities associated with this project. Contractor fueling facilities will be sited a minimum of 1,500' from the water reservoir and a minimum of 200' from the ordinary high water of the stream. Fuel shall be stored within a double walled container or within an impermeable bermed storage area.

(k) C-11 Spill Containment and Cleanup Equipment: Fuel storage of 5,000 gallons or more shall not occur at the construction site.

(l) C-12 Cumulative Impacts on Air Quality: The subject project will not emit air quality contaminants.

(m) C-13 Cumulative Impacts on Water Quality: This Standard addresses agencies' responsibilities.

(n) C- 14 through C-18 are administrative policies.

Consistent                       Inconsistent                       Not Applicable

**11 A.A.C. 112.320. Historic, Prehistoric, and Archeological Resources**

**Standard**

- (a) *The department will designate areas of the coastal zone that are important to the study, understanding or illustration of national, state or local history or prehistory, including natural process.*
- (b) *A project within an area designated under (a) of this section shall comply with the applicable requirements of A.S. 41.35.010 – 41.35.240 and 11 A.A.C. 16.010 – 11 A.A.C. 16.900.*

**Evaluation**

(a) I-1 Cultural and Historic Resource Areas: As per agreement with the State Historical Preservation Office (SHPO), an archeologist performed an on-site survey the entire project area in August 2006 to determine if artifacts will be disturbed by any segment of the project. The result of this survey was to recommend that a monitor be present during excavation activities for areas that were near significant cultural sites.

An archeological survey, no matter how intensive, can only provide a sampling of the project area. If cultural, archeological, or historical sites are discovered during project construction, the SHPO will be contacted and any work that might impact these sites will be stopped. Work shall not resume in the vicinity of the site until a written clearance from the SHPO is issued.

(b) I-2 Resource Protection, same response as (a).

Consistent                       Inconsistent                       Not Applicable

**In addition to the above State Standards, the project was also evaluated against the following standards which are unique to the AWCRSA.**

**F. Fisheries and Seafood Processing**

**Evaluation**

- (a) F-1 Optimum Resources Use: Fisheries will not be impacted by the project. The dam is not on an anadromous fish stream and the outfall lines are not located in an area where they would affect said fishery.
- (b) F-2 Development: Same response as (a).
- (c) F-3 Disposal of Seafood Processing Wastes: N/A
- (d) F-4 through F-9 are Administrative Policies.

Consistent                       Inconsistent                       Not Applicable

**H. Recreation**

**Evaluation**

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- (a) H-1 Protection of Recreation Values: Project is not recreational in nature. N/A
- (b) H-2 Conflict Mitigation: The project components do not conflict with recreational use of public land or water.
- (c) H-3, H-4, H-5, and H-6 are all administrative policy.

Consistent

Inconsistent

Not Applicable

## **Detailed Project Description**

### ***Background Info***

The City of Atka (population 90) is broken into two areas. The first is in the south end of town and is the original town site. This area has been identified as the “Old Atka Village” area. The new subdivision located near the airport has been identified as the “New Atka Subdivision”.

The City of Atka in cooperation with Village Safe Water (VSW) has contracted with HDR Alaska, Inc. to provide professional engineering and environmental services necessary to prepare preliminary and final plans for water and sewer improvements in Atka, Alaska, as generally described in the Atka Sanitation Improvements Study, prepared in March 2001 by HDR Alaska, Inc.

Major elements of the project include: (shown on Figure G1.2, Vicinity Map and Project Locations)

- Replace water supply impoundment
- Build a new water treatment facility and replace water treatment equipment
- Replace water distribution lines in old Atka village
- Design two new community potable water storage tanks
- Design and construct a dedicated water service line for the fish processing facility
- Replace existing broken ocean outfall lines
- Wastewater collection extension to the water treatment plant
- Design connections for the proposed health clinic and school

### ***Water Source Impoundment Replacement***

Residents of Atka currently obtain surface water from a reservoir constructed in 1977 by Public Health Service (PHS). The general condition of the existing reservoir and dam is poor.

Although the dam and intake appear to be functioning properly, the wood is showing signs of deterioration. City employees have been maintaining the reservoir diligently by thoroughly cleaning the basin and dam once a year and daily maintenance and cleaning of the intake structure. Mitigation of the erosion at the reservoir’s earthen walls is also required. But, despite these efforts, the facilities are over 30 years old and time and weather have deteriorated the structure.

This project will replace this existing dam with a new concrete weir (as shown on sheet C5.6) that will be founded on bedrock and has approximate dimensions of 55 feet wide with a spillway elevation of 211.50 feet. This spillway will hold water at a depth of 2.5 to 3 feet. This impoundment will be a 10 inch wide concrete structure that will be supported on both sides by Class II Rip Rap. The new impoundment structure will be located in the same location as the existing structure. The raw water intake filter will be replaced with a new 12” diameter drum screen intake and the transmission line will be

replaced with 4 inch HDPE to the existing isolation valve downstream of the impoundment. The existing isolation gate valve will also be replaced.

### ***WTP Building and Treatment Replacement***

The entire community water system is supplied by gravity from the impoundment mentioned above to the water treatment plant (WTP) via 4" PVC buried piping installed as a part of the 1977 PHS project. A valve to stop flow to the WTP from the dam is not functioning. Valving is also present which provides for bypassing the WTP to fill the storage tanks directly.

The WTP was constructed in 1978. The treatment building is an aged structure with an open front (the garage door is missing). The treatment room is kept locked and is fully enclosed. The inlet line enters at the back of the building and passes through two pressure mixed-media filters. The original chlorine and fluoride venturi have been replaced with a new chlorine pump that injects calcium hypochlorite into the water stream. Once the water has been chlorinated, it exits the building and enters both community water storage tanks.

City employees backwash the filters regularly (once or twice a day during high water or spring runoff). It is unknown whether or not the media was ever replaced in the filters or if the filters are functioning properly. Residents have made complaints of chlorine taste and turbid water. Flow records indicate significant water leakage. An evaluation of the plant's conformance to the Surface Water Treatment Rule (SWTR) was conducted. The SWTR is a regulation which defines minimum disinfection and contact time requirements to inactivate viruses, bacteria, and other microorganisms which may be present in surface waters. The treatment plant was found to be **not** in compliance with the SWTR at this time.

### ***New Water Treatment Building Structure***

It was identified in the preliminary design aspect of this project that the existing foundation at the WTP and the existing size of the structure was adequate. As part of this project the existing WTP structure will be demolished and a new structure will be built on the existing foundation. The new building is designed to meet all International Building Code (IBC) requirements for the area, including wind and seismic. The building will be timber construction with metal roofing and vinyl siding.

The building construction sequencing will be developed as to ensure that water service disruption is kept to a minimum during the construction. Construction shall be phased such that the existing slab is utilized and water treatment equipment is protected while the new building shell is built. This includes temporary structures to cover the existing treatment equipment.

### ***New Water Treatment Plant Equipment***

The water treatment plant equipment will also be replaced in order for the community to adequately meet the requirements of the SWTR and future regulations that have been identified. Monitoring and reporting techniques should be improved as well.

This project includes design of a new water treatment system. The system will increase capacity for the 20 year design life of the equipment and be capable of providing 50 gpm of treated water. The new treatment equipment will consist of pressure filter vessels. A coagulant will be added upstream of the filter vessels to assist in turbidity and organic carbon removal. Water coming in and out of the plant will be monitored for turbidity. Following treatment, the chlorine will be added to provide disinfection.

### ***Old Atka Village Outfalls and Septic Tanks***

Two outfalls exist in the Old Atka Village area. Both have broken off at the beach and will be completely replaced (Sheet C6.0). The north outfall will be approximately 475 lineal feet of 4" HDPE pipe and extend to a depth of approximately 44.5 feet below MLLW. The south outfall will be approximately 820 lineal feet of 4" HDPE and extend to a depth of approximately 23.7 feet below MLLW. The design of both outfalls includes a new 10,000-gallon fiberglass septic tank to be placed in front of each outfall. Both outfalls will be buried to the extent possible and will be anchored with concrete anchor blocks along the full length of the outfall.

### ***Water Distribution System Replacement in Old Atka Village***

Water is supplied to the homes in both the old subdivision and new Atka subdivision with PVC piping from the storage tanks. A total of 11 fire hydrants are located on the distribution mains around the city. The old subdivision line provides flow to 6 hydrants, and 3 are served by the Atka subdivision water line. There are also 2 hydrants connected to the transmission main from the WTP to the Atka subdivision tank to serve the fire house and fish plant. Water for the fire department, fish plant, and the Nazan Inn is also tapped directly into this distribution line and is not fed from a tank.

The major deficiencies with the water distribution system expressed by the City employees were:

1. Areas of town experienced water shortages and low pressure when the fish plant is processing.
2. Occurrence of low pressure and rusty water in the old subdivision.
3. Several fire hydrants may be leaking.
4. There are no hydrants near the school or WTP.
5. There is no metering capability for commercial users.
6. Significant leakage in the existing distribution system in Old Atka Village

The existing distribution system in Old Atka Village will be replaced with a 6-inch HDPE waterline. This will be SDR 11 piping, capable of pressures up to 160 psi. This size main will allow the fire flow desired above, as well as meet maximum hour demands (Sheet C2.1). All fire hydrants on this distribution system will also be replaced (total of 6).

### ***Dedicated Fish Plant Waterline***

An analysis was completed to determine the best way of serving Atka Pride Seafoods with the water required for processing operations. It was determined that a dedicated service line would be designed and constructed. This service line will begin at the new Old Atka Village water storage tank and provide treated potable water to the processing facility. This line is approximately 1,700 lineal feet of 4" HDPE water line (sheets C2.5 – C2.6).

### ***Design Replacement Water Storage Tanks***

Two 30,000-gallon wood stave storage tanks currently provide treated water storage in Atka. Both tanks are wood stave and are 14' high by 20' in diameter and were installed by PHS. The main problem regarding the existing water storage is that there is not adequate water storage to serve all of town and the processing plant when it is operating. Also, both level control valves leak water, even after they have been shut off. This becomes a problem in the winter when the leaks tend to freeze the valves.

Both of these new tanks will be located in the existing location of the water storage tanks and will be bolted steel potable water storage tanks (sheets C4.1, C4.3). The tank sizes for Old Atka village and the new Atka subdivision are **66,000 and 40,000 gallons**, respectively.

### ***Wastewater Collection Main Extension***

An extension of the existing gravity wastewater collection system will be constructed to serve the domestic wastewater production at the water treatment plant.

### ***New Health Clinic Water and Service connections***

Design of water and sewer connections to the community systems for the proposed new health clinic that will be located adjacent to the new Old Atka Village water storage tank.

### ***School Sewer line connection***

The school currently disposes of domestic wastewater with an on-site drainfield. This project may incorporate a lift station and force main to connect the school to the community sewer system in New Atka Subdivision.

## **Time Line**

Construction of the water and sewer improvements will occur in 3 stages. Priority will be given to construction of the water treatment plant since the community is not currently in compliance with the Safe Drinking Water regulations.

A summary of the project phase is below:

### **Phase I- May 07- May 08**

- Tear down existing water treatment building
- Replace outside plumbing connections for the water treatment building
- Construct water treatment plant structure and replace water treatment equipment
- Start construction of new water lines in Old Atka
- Replace north and south outfall lines

### **Phase II- May 08-October 08**

- Replace water storage tanks and connecting water line
- Construct wastewater collection system extension to the water treatment plant
- Dam replacement
- Finish construction of new water lines
- Start construction of a new dedicated water line for the fish processing plant

### **Phase III- May 09-October 09**

- Construct health clinic water and sewer connection
- Construct school sewer connection