



**STATE OF ALASKA
ALASKA CLEAN/DRINKING WATER FUND
GREEN PROJECT ASSESSMENT FORM**

As applicable under the EPA annual capitalization grants provided to the Alaska Clean Water Fund (ACWF) and Alaska Drinking Water Fund (ADWF) loan programs, a portion of funds appropriated shall be for projects to address green infrastructure, water or energy efficiency improvements or other environmentally innovative activities.” To meet this condition under the federal grant for administering these funds, this assessment form is provided to document this eligibility or what is termed a “Categorical” or “Business Case” justification, which will be reviewed by DEC for provisional compliance. For more information on green infrastructure development, please review the following EPA web site:

http://cfpub.epa.gov/npdes/home.cfm?program_id=298

For those projects requiring a “Business Case,” Part 2 will require completion to qualify a “traditional project” as green; justification is broken down into two parts, technical and financial. The technical part should use information from a variety of sources such as maintenance or operation records, engineering studies, project plans or other applicable documentation to identify problems (including any data on water and/or energy inefficiencies) in the existing facility, and that clarifies the technical benefits from the project in water and/or energy efficiency terms. Financial justification needs to show estimated savings to a project based on the technical benefits, and demonstrate that the green component of the project provides a substantial savings and environmental benefit.

For more information and assistance in completing this assessment form, please contact the Municipal Matching Grants & Loans program in Anchorage at 907-269-7673, or in Juneau at 907-465-5300.

GENERAL INFORMATION

Name of Community Anchorage - Solid Waste Services

Address MOA SWS Disposal Utility 1111 East 56th Avenue Anchorage, AK 99518-1754

Contact Name Mark Madden Title Engineer Telephone (907) 343-6279

PROJECT INFORMATION

Project Name Anchorage Landfill Leachate Discharge Location Anchorage Regional Landfill

Project Type: Force Main
 New Construction Upgrades

Stormwater Infrastructure Energy Efficiency Project

Water Efficiency Project Innovative Environmental Project

Green Project Description: This project will design and construct new force main pipeline which will convey leachate from the Anchorage Regional Landfill collection ponds to the sanitary sewer on JBER military base; eliminating the need to truck leachate to the Turpin Street dump station for discharge. Pumping the leachate through the force main will be more energy efficient than trucking the leachate, and is a cost effective solution.

PART 1 – GREEN PROJECT CATEGORY & COSTS

Identify the most appropriate “Green” Clean Water or Drinking Water category project type. Note, any selection with (BC) at the end will require a Business Case demonstration.

ENERGY EFFICIENCY – the use of improved technologies and practices to reduce the energy consumption of water quality projects.

Wastewater/water utility energy audits Clean power for public owned facilities
 Leak detection equipment Retrofits/upgrades to pumps & treatment processes (BC)
 Replace/rehabilitation of distribution (BC) Other: Eliminate trucking of leachate (BC)

WATER EFFICIENCY – the use of improved technologies and practices to deliver equal or better services with less water.

Water meters Fixture Retrofit Landscape/Irrigation
 Graywater or other water recycling Replace/rehabilitation of distribution (BC)
 Leak detection equipment OTHER: _____ (BC)

GREEN INFRASTRUCTURE – Practices that manage and treat stormwater and that maintain and restore natural hydrology by infiltrating, evapotranspiring and capturing and using stormwater.

Green Streets Water harvesting and reuse
 Porous pavement, bioretention, trees, green roofs, water gardens, constructed wetlands
 Hydromodification for riparian buffers, floodplains, and wetlands
 Downspout disconnection to remove stormwater from combined sewers and storm sewers
 OTHER: _____ (BC)

ENVIRONMENTALLY INNOVATIVE PROJECTS – Demonstrate new/innovative approaches to managing water resources in a more sustainable way. This may include projects that achieve pollution prevention or pollutant removal with reduced costs and projects that foster adaptation of water protection programs and practices to climate change.

Wetland restoration Decentralized wastewater treatment solutions
 Water reuse Green stormwater infrastructure Water balance approaches
 Adaptation to climate change Integrated water resource management
 OTHER: _____ (BC)

PROJECT & GREEN COMPONENT COSTS

	<u>TOTAL PROJECT COSTS</u>	<u>TOTAL "GREEN" COMPONENT COSTS</u>
Administration	\$ <u>75,000</u>	\$ <u>75,000</u>
Legal	\$ <u>75,000</u>	\$ <u>75,000</u>
Preliminary Studies/Reports	\$ <u>150,000</u>	\$ <u>150,000</u>
Engineering Design	\$ <u>175,000</u>	\$ <u>175,000</u>
Inspection/Surveying/Construction Management	\$ <u>165,000</u>	\$ <u>165,000</u>
Construction	\$ <u>1,800,000</u>	\$ <u>1,800,000</u>
Equipment	\$ <u>300,000</u>	\$ <u>300,000</u>
Contingencies	\$ <u>400,000</u>	\$ <u>400,000</u>
Other _____	\$ _____	\$ _____
Total Costs	\$ <u>3,140,000</u>	\$ <u>3,140,000</u>

PART 2 – PROJECT “BUSINESS CASE” TECHNICAL/FINANCIAL ASSESSMENT

TECHNICAL ANALYSIS OF BENEFITS*

In addition to this form, a supporting technical and financial analysis is required to verify energy and water saving efficiencies for any green component of the project. For green infrastructure and innovative environmental type projects, the analysis should include any applicable efficiency and environmental benefits. For assisting MGL in evaluating “Business Case” assessments of water main, meter, and pump facility replacement type projects, the attached form titled “ADWF - Water/Energy Efficiency Determination - Water Main Replacement/Meter/Pump Facility” is required to be completed. Once the form is complete along with any supporting documentation, please submit documentation to the MGL program for review and concurrence. Note, only water/energy efficiencies that achieve a 20% or greater increase in efficiency will categorically qualify as a Green project.

CERTIFICATION STATEMENT:

I certify the above information is current and accurate.

Mark Madden
Name

Engineer
Title

Signature

Date

Submit Completed Form to:

Alaska Department of Environmental Conservation
Municipal Matching Grants & Loans
555 Cordova Street
Anchorage, AK 99501-2617