

Eastland County WSD

DWSRF GREEN PROJECT RESERVE BUSINESS CASE EVALUATION

STATE FISCAL YEAR 2011 INTENDED USE PLAN

PROJECT NUMBER 61928

COMMITMENT DATE: <u>March 17, 2011</u> DATE OF LOAN CLOSING: <u>March 26, 2012</u>



P.O. Box 13231, 1700 N. Congress Ave. Austin, TX 78711-3231, www.twdb.state.tx.us Phone (512) 463-7847, Fax (512) 475-2053

March 24, 2011

Mr. Dale Bennington Water Superintendent Eastland County Water Supply District P.O. Box 16 Ranger, Texas 76470-0016

Re: SFY 2011 Drinking Water State Revolving Fund Green Project Eligibility

Dear Mr. Bennington:

The Texas Water Development Board (TWDB) received Green Project Information Worksheets from the Eastland County Water Supply District (District) for project #8463 in response to the Drinking Water State Revolving Fund (DWSRF) invitation dated September 27, 2010. After reviewing the worksheets, TWDB staff determined the District meets certain green costs based on the following:

- The District's Green Project Information Worksheets dated October 27, 2010 requested \$2,111,510 of the \$11,650,000 Water System Improvements Project be considered eligible for the DWSRF Green Project Reserve (GPR). The project was generally described as rehabilitation of the existing water treatment plant and raw water transmission system.
- Installation of solar panels at a new chemical feed systems building and improvements to the existing raw water transmission main were requested to be considered eligible for the DWSRF GPR.
- The Environmental Protection Agency's (EPA's) *Green Project Reserve Guidance for Determining Project Eligibility* (TWDB-0161) lists renewable energy projects such as solar that provide power to a utility as categorically eligible for the GPR (Part B, Section 3.2-1). Energy efficient retrofits, upgrades, or new pumping systems and treatment processes are described as business case eligible for the GPR (Part B, Section 3.5-1).
- Information presented on the Green Project Information Worksheets revised on March 1, 2011 confirmed that the renewable energy (solar panel installation in the amount of \$104,000) project elements were categorically

Our Mission

To provide leadership, planning, financial assistance, information, and education for the conservation and responsible development of water for Texas

Board Members

Edward G. Vaughan, Chairman Jack Hunt, Vice Chairman

James E. Herring, Member Thomas Weir Labatt III, Member Joe M. Crutcher, Member Lewis H. McMahan, Member

Melanie Callahan, Interim Executive Administrator

Mr. Dale Bennington March 24, 2011 Page 2

> eligible for the DWSRF GPR. Energy efficiency retrofits or upgrades related to the raw water pumping and transmission system may be eligible for the DWSRF GPR, however, sufficient information was not provided on the Green Project Information Worksheets or application material to confirm eligibility. DWSRF GPR eligibility of the raw water pumping and transmission system may be reconsidered upon completion of the project planning phase. Therefore, at this time the TWDB considers project costs associated with renewable energy in the amount of \$104,000 eligible for the DWSRF GPR.

• Please note that the District's application for financial assistance must be consistent with information provided on the Green Project Information Worksheets dated March 1, 2011.

If you have any questions regarding green project eligibility, please feel free to contact John Muras, Project Engineer, by phone at 512-463-1706 or by email at john.muras@twdb.state.tx.us.

If you have any questions regarding the status of your application, please feel free to contact Luis Farias, DWSRF Project Lead, by phone at 512-475-4816 or by email at luis.farias@twdb.state.tx.us.

Sincerely,

Hey L Barra

Stacy L. Barna Director of Program Development Project Finance Division

SLB:bv

TEXAS WATER DEVELOPMENT BOARD

Green Project Reserve

Green Project Information Worksheets

Drinking Water State Revolving Fund Intended Use Plan

The Federal Appropriation Law for the current fiscal year Clean Water and Drinking Water State Revolving Fund programs contains the Green Project Reserve (GPR) requirement. The following Green Project Information Worksheets have been developed to assist TWDB Staff in verifying eligibility of potential GPR projects.

TWDB-0163 Revised 12/2/2010

TEXAS WATER DEVELOPMENT BOARD
DRINKING WATER STATE REVOLVING FUND (DWSRF)
GREEN PROJECT INFORMATION WORKSHEETS

PART I - GREEN PROJECT INFORMATION SUMMARY

Check all that apply and complete applicable worksheets:

- Freedow

Categorically Eligible	
Green Infrastructure \$	
Water Efficiency \$	
Energy Efficiency \$ 104,000.00	
Environmentally Innovative \$	
Business Case Eligible	
Green Infrastructure \$	
Water Efficiency \$	
Energy Efficiency \$	
Environmentally Innovative \$	
Total Requested Green Amount \$ 104,000.00	
Total Requested Funding Amount \$11,650,000.00	
Type of Funding Requested: PAD (Planning, Acquisition, Design) C (Construction)	
Name: LARRY K. FUSOL, P.E.	Title: Vice President
Name: LARRY K. FUSAL, P.E. Signature: AR fu	Title: Vice Persident Date: 3/1/11
\mathcal{O}	

TEXAS WATER DEVELOPMENT BOARD DRINKING WATER STATE REVOLVING FUND (DWSRF) GREEN PROJECT INFORMATION WORKSHEETS

PART II - CATEGORICALLY ELIGIBLE
Complete this worksheet for projects being considered for the Green Project Reserve (GPR) as categorically eligible. Categorically eligible projects or project components are described in the following sections of the EPA GPR guidance (TWDB-0161):
Green InfrastructurePart B, Section 1.2Water EfficiencyPart B, Section 2.2Energy EfficiencyPart B, Section 3.2Environmentally InnovativePart B, Section 4.2
Information provided on this worksheet should be of sufficient detail and should clearly demonstrate that the proposed improvements are consistent with EPA and TWDB GPR guidance for categorically eligible projects. Refer to Information on Completing Worksheets for additional information.
Section 1 – General Project Information
Applicant: Eastland county WSD PIF #: 8463
Project Name: Water System Improvments
Contact Name:Dale Bennington
Contact Phone and e-mail: (254) 647-3294; ecwsd@txol.net
Total Project Cost: \$11,650,000.00 Green Amount: \$104,000.00 (Categorically Eligible)
Brief Overall Project Description: Rehabilitation of existing water treatment plant and raw water transmission system.

Section 4 - Energy Efficiency

Certain energy efficiency improvements may be considered categorically eligible for the GPR. Refer to EPA and TWDB GPR guidance for a complete list and description of categorically eligible GPR projects. A few common types of energy efficiency projects that may be considered categorically eligible, such as renewable energy projects and NEMA Premium efficiency motors, are listed below. Complete Sections 4.1 and 4.2 if applicable. For any other energy efficiency improvement being considered for categorical eligibility, complete Section 4.3.

Section 4.1 – Renewable Energy Improvements

Renewable energy improvements such as wind, solar, geothermal, micro-electric, etc, are considered categorically eligible for the GPR according to EPA GPR guidance (TWDB-0161) Part B, Section 3.2. List renewable energy components applicable to the project in the table below. Also provide a detailed description of the proposed improvements.

Component Description	Design Life	Component Cost	Annual Energy Produced	Annual Financial Savings
Solar panels for Chemical Building	25 yrs	\$100,300.	21,900 Kwh	\$2,190
	Total:	\$100,300	21,900 Kwh	\$2,190

Provide a detailed description of the proposed improvements including location, use, connections to existing systems, proposed facility operation, calculation of anticipated savings, etc (attach additional pages if necessary):

New single-story masonry building to house the chemical feed system for the water treatment plant. The new construction would incorporated solar panels to provide operational power to the building (lighting, ventilation, etc.)

Green amount associated with renewable energy:

\$100,300

TWDB-0163 Revised 12/2/2010