



City of Burnet

DWSRF GREEN PROJECT RESERVE BUSINESS CASE EVALUATION

STATE FISCAL YEAR 2011 INTENDED USE PLAN

PROJECT NUMBER 62510

COMMITMENT DATE: September 22, 2011

DATE OF LOAN CLOSING: September 28, 2012

Note that the project was committed for \$1,375,000 as 100% green; subsequently, the city reduced the loan to a just the Planning phase. However, the entire project is still 100% green and it will be closed in subsequent years. Loans are posted to the Project Benefit System as they are funded, and the Green portion, (if any) is reported at that time.

July 14, 2011

Crista Bromley
City of Burnet
P.O. Box 1369
Burnet, TX 78611

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

Dear Ms. Bromley:

The Texas Water Development Board (TWDB) received Green Project Information Worksheets from the City of Burnet (City) for project #8480 in response to the Drinking Water State Revolving Fund (DWSRF) invitation dated April 5, 2011. The invitation states that the City was invited to apply for funding because its project is listed on the Project Priority List as having green costs greater than or equal to 30% of the total project cost. It requires the City to document that the green components meet the 30% cost threshold to avoid forfeiting eligibility for funding. After reviewing the worksheets, TWDB staff determined the City does meet the 30% green cost threshold based on the following:

- The City's Green Project Information Worksheets dated April 14, 2011 requested that \$1,375,000 (or 100%) of the City's total project cost be considered eligible for the DWSRF Green Project Reserve (GPR). The green element described includes improvement in water efficiency within a portion of the City's water distribution system by replacement of approximately 7,787 feet of 6 and 8-inch steel and asbestos-cement pipe with 8-inch PVC pipe in the Sherrard Street area.
- The Environmental Protection Agency's (EPA's) *Green Project Reserve Guidance for Determining Project Eligibility* (TWDB-0161) lists water efficiency projects such as distribution pipe replacement to reduce water loss and prevent water main breaks as business case eligible for the GPR (Part B, Section 2.5-2).
- Information presented on the Green Project Information Worksheets and its attachments provided sufficient information to confirm the eligibility of the proposed water distribution improvements for the GPR in accordance with TWDB-0161, Part B, Section 2.5-2.
- Therefore, at this time the TWDB considers project costs associated with distribution system improvements in the amount of \$1,375,000 to be eligible for the DWSRF GPR.

Our Mission : Board Members

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

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Melanie Callahan, Interim Executive Administrator

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Monte Cluck, Member

Crista Bromley

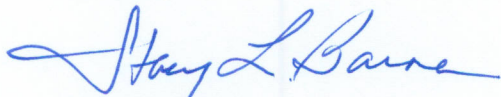
July 14, 2011

Page 2

- Please note that the City's application for financial assistance must be consistent with the project scope presented on the Green Project Information Worksheets. Inclusion of the green elements within the project will be verified prior to Board commitment.

The TWDB appreciates the City of Burnet's interest in the DWSRF program and staff is presently reviewing the City of Burnet's application for funding. 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,



Stacy L. Barna

Director of Program Development

Project Finance Division

SLB:rf

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:

Categorically Eligible

- Green Infrastructure \$ _____
- Water Efficiency \$ _____
- Energy Efficiency \$ _____
- Environmentally Innovative \$ _____

Business Case Eligible

- Green Infrastructure \$ _____
- Water Efficiency \$1,375,000 _____
- Energy Efficiency \$ _____
- Environmentally Innovative \$ _____

Total Requested Green Amount \$ _____

Total Requested Funding Amount \$ _____

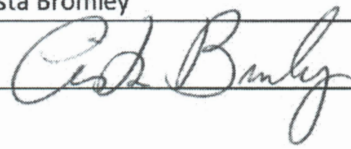
Type of Funding Requested:

- PAD (Planning, Acquisition, Design)
- C (Construction)

Completed by:

Name: Crista Bromley

Title: Director of Economic Dev.

Signature: 

Date: 4-14-11

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

PART III - BUSINESS CASE ELIGIBLE

Complete this worksheet for projects being considered for the Green Project Reserve (GPR) as business case eligible. Business case eligible projects or project components are described in the following sections of the EPA GPR guidance (TWDB-0161):

Green Infrastructure	Part B, Section 1.4
Water Efficiency	Part B, Section 2.4 and 2.5
Energy Efficiency	Part B, Section 3.4 and 3.5
Environmentally Innovative	Part B, Section 4.4 and 4.5

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 business case eligible projects. Refer to **Information on Completing Worksheets** for additional information.

Section 1 – General Project Information

Applicant: City of Burnet, Texas PIF #: _____

Project Name: Sherrard Street Water Line Rehabilitation

Contact Name: Crista Bromley

Contact Phone and e-mail: (512) 715-3217, cbromley@cityofburnet.com

Total Project Cost: \$1,375,000 Green Amount: 1,375,000
(Business Case Eligible)

Brief Overall Project Description:

The primary project will replace existing steel lines in the northwestern section of town to improve water quality issues the residents currently experience. The proposed primary project is shown in draft form on Exhibit "B". Exhibit "C" shows a section of pipe recently removed from Sherrard Street.

Section 3 - Water Efficiency

Certain water efficiency improvements may be considered business case eligible for the GPR. Refer to EPA and TWDB GPR guidance for a complete list and description of business case eligible GPR Projects. For all water efficiency business case eligible projects Section 3.1 must be completed. A common water efficiency project that may be considered business case eligible is water line replacements to address water loss. For this type of project complete Section 3.2 of the worksheet. For any other water efficiency improvement being considered for business case eligibility, complete Section 3.3.

Section 3.1 - System and Water Loss Information

Section 3.1 is required for all water efficiency business case eligible projects. Attach a copy of most recent Water Audit, if available. Otherwise, complete and attach Water Audit Worksheet or provide water audit data in a similar format. Additional information on water loss and water audits as well as a copy of the Water Audit Worksheet is available at:

http://www.twdb.state.tx.us/assistance/conservation/Municipal/Water_Audit/wald.asp

Reference and attach water loss audit and/or any other completed planning or engineering studies:

- See attached engineering _____
- _____
- _____

Section 3.2 - Water Line Replacement

Proposed pipe to be replaced:

Length (LF)	Existing Pipe			Proposed Pipe	
	Material	Age (yr)	Dia. (in)	Dia. (in)	Material
7,787	80% Steel & 20% Asbestos-Cement	50-60	6&8"	8"	PVC

Percent of distribution lines being replaced: 2.46%

Number of breaks/leaks/repairs recorded in past 24 months for areas being replaced: 31

Estimated water loss from pipe being replaced (provide calculations on following page): 1,100,000 gals

Estimated annual water savings (provide calculations on following page): 936,000

Estimated annual cost savings (provide calculations on following page): 3,098

Provide detailed description of the proposed improvements and provide supporting calculations. Description should include a description of the methodology used to select pipes for replacement (attach additional pages if necessary):

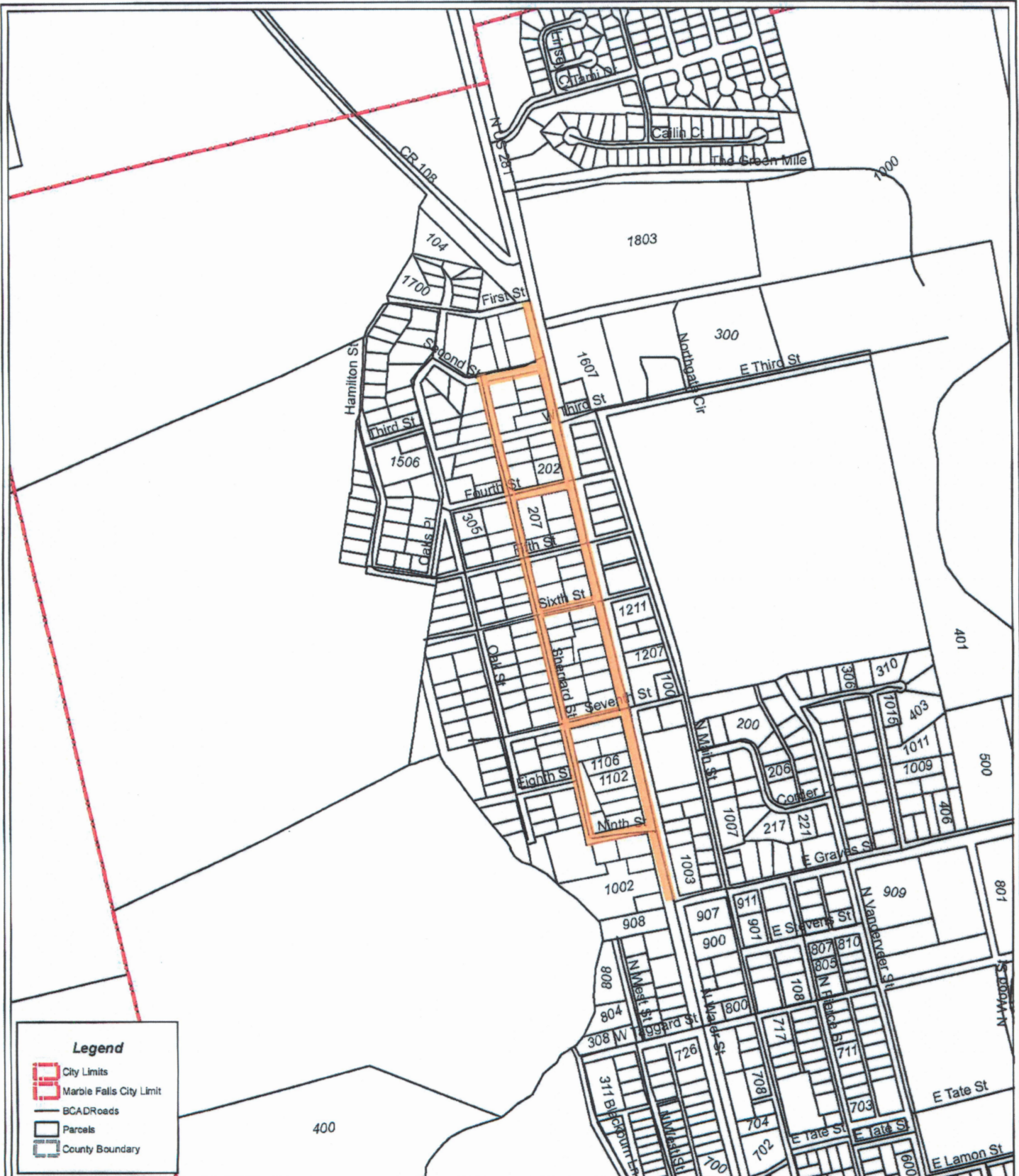
The condition of the lines, within the scope of the project, is severely degraded (see attached photos), thereby causing frequent leaks and severe rust problems. Breaks from deteriorating pipes are common place, with numerous complaints about taste and clarity. Because of this, the City must flush the lines on a weekly basis. Replacement of these lines will substantially reduce the amount of water being wasted to keep these lines clear and usable. The City estimates 20,000 gallons of treated water is flushed weekly for an estimated quantity of 1,040,000 annually with another 60,000 lost due to breaks..

This project will remove over 7,780 lf of degraded steel pipe and replace it with 8" PVC pipe. Also replaced will be a number of valves, fittings and service lines, asphalt and sidewalk repair.






Pipes chosen are documented by number of breaks, reports from public about "orange" or dark water and low water volume. Also segments of pipe have been viewed and photographed as indicated by the attached photographs.

The volumetric revenue lost is \$3.31/1,000 gals. This means that the estimated loss of revenue for the lost water is \$3,098 for this section of pipe annually.

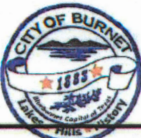
Green amount associated with water line replacement: \$1,375,000
(Attach detailed cost estimate if necessary)



Legend

-  City Limits
-  Marble Falls City Limit
-  BCAD Roads
-  Parcels
-  County Boundary

Disclaimer: The City of Burnet makes no representation or warranty as to the accuracy of this map and its information nor to its fitness for use. Any user of this map product accepts the same AS IS, WITH ALL FAULTS, and assumes all responsibility for the use thereof, and further agrees to not hold the City of Burnet liable from any damage, loss, or liability arising from any use of the map product. Independent verification of all information contained on this map should be obtained by the end user.



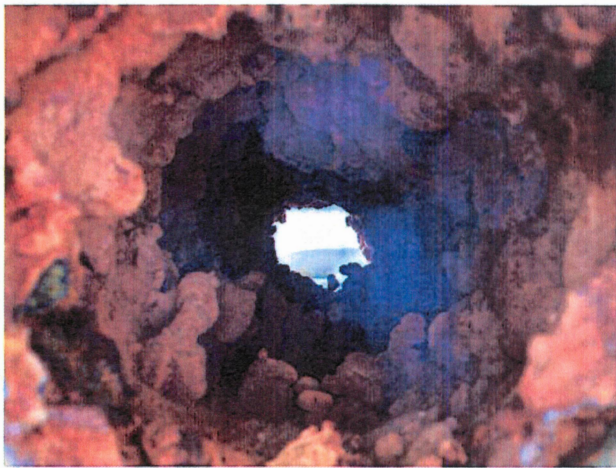
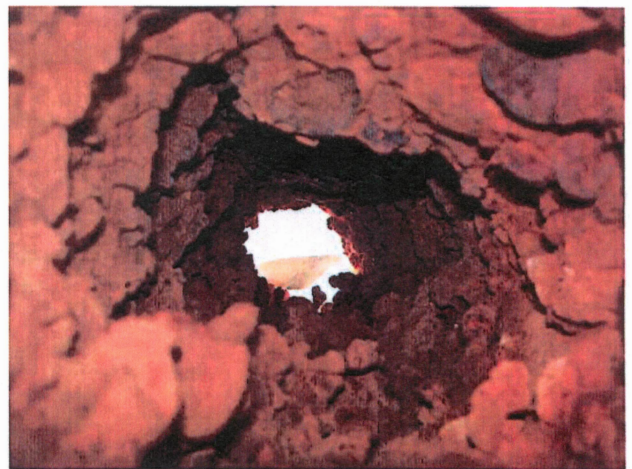
City of Burnet
 P.O. Box 1369
 1001 Buchanan Dr, Suite 4
 Burnet, Texas 78611
 (512) 756-6093
 Fax (512) 756-8560
 www.cityofburnet.com

SHERRARD STREET PROJECT MAP
CITY OF BURNET



1" equals 710'

Exhibit C



Typical flushing of Sherrard Street line.



Section of Sherrard Street pipe taken out of service on December 14, 2009