COMMITMENT DATE: November 21, 2013
DATE OF LOAN CLOSING: April 15, 2014
GREEN ESTIMATE AT CLOSING: $981,000
Subsidy awarded for Green components: $147,150
October 18, 2012

Mr. Brice Capps
Valley WSC
515 Sterley
Spur, TX 79370

Re: SFY 2012 Drinking Water State Revolving Fund
Green Project Eligibility

Dear Mr. Capps:

The Texas Water Development Board (TWDB) received Green Project Information Worksheets from Valley WSC (Corporation) for project #9595 in response to an invitation letter dated September 4, 2012. The letter states that should funding be available, the Corporation is eligible for loan forgiveness in an amount up to 15% of the green component cost (also referred to as the Green Project Reserve) if it can demonstrate that the project has green costs greater than or equal to 30% of the total project cost. After reviewing the worksheets, TWDB staff determined the Corporation meets the 30% green cost threshold based on the following:

- The Corporation’s Green Project Information Worksheets dated August 30, 2012 requested that $1,115,036 of the Corporation’s total project cost of $1,115,036 be considered eligible for the DWSRF Green Project Reserve (GPR). The general element(s) described includes the replacement of approximately 21,000 linear feet of water line to address water and pressure.

- The Environmental Protection Agency’s (EPA’s) Green Project Reserve Guidance for Determining Project Eligibility (TWDB-0161) lists distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks as business case eligible for the GPR (Part B, 2.5-2), Water Efficiency.

- Information presented on the Green Project Information Worksheets and attachments previously submitted with the Project Information Form provided sufficient information to confirm the eligibility of the proposed improvements for the GPR in accordance with TWDB-0161 Part B, 2.5-2.

- Therefore, at this time the TWDB considers project costs associated with the Distribution Line Replacement project in the amount of $1,090,536 to be eligible for the DWSRF GPR. This includes estimated construction and applicable soft costs for the items. Please note that the proposed project has been limited to receiving funding for the planning and design phases only during this State Fiscal Year.
• Please note that the Corporation'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. If the project scope or budget related to the approved green components changes during application review, the Corporation should update and resubmit the Green Project Information Worksheets as necessary.

For SFY 2013, the TWDB has a goal to allocate 10% of the capitalization grant toward green component costs. Therefore, the TWDB gives first preference for invitations to entities that have a documented percentage of green component cost of at least 30% of the total project cost. The Corporation has demonstrated that it meets/exceeds the 30% green cost threshold. However, there is currently no green subsidy available. Green subsidy may become available if other invitees on the Fundable Projects List do not meet the required deadlines. If this occurs, any available subsidy will be offered to eligible applicants in priority order. Please continue working with the TWDB on your financial assistance application.

If you have any questions regarding green project eligibility, please feel free to contact James Bronikowski, Project Engineer, by phone at 512-475-0145 or by email at james.bronikowski@twdb.texas.gov.

The TWDB appreciates Valley WSC interest in the DWSRF.

Sincerely,

Stacy L. Barna
Director of Program Development
Project Finance Division

SB:rf

Attachments:  1. Green Project Information Worksheets, Approved
               2. Green Project Cost Summary
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
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 $1,115,036
☐ Energy Efficiency $ _______________________
☐ Environmentally Innovative $ _______________________

Total Requested Green Amount $1,115,036

Total Requested Funding Amount $1,115,036

Type of Funding Requested:

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

Completed by:

Name: Scott Hay, P.E.  Title: Project Engineer
Signature: _______________________
Date: 8-30-12
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 Error! Reference source not found. for additional information.

Section 1 – General Project Information

Applicant: Valley WSC

PIF #: 9595

Project Name: Water System Improvement

Contact Name: Scott D. Hay, P.E.

Contact Phone and e-mail: 325-698-5560, Scott.Hay@e-ht.com

Total Project Cost: $1,115,036.00

Green Amount: $1,115,036.00

(Business Case Eligible)

Brief Overall Project Description:

Due to line losses, only 33% of the water purchased from the City of Spur is being delivered and billed to the WSC customers. The estimated total cost of apparent and real losses is $32,388.29 per year. In order to restore the aging infrastructure to its proper function, the WSC severely needs funding to help address the aging and inefficient distribution system. The project will consists of providing and installing 56,000 ft of 2", 4,500 ft of 2.5" and 28,000 ft of 3" SDR-11 HDPE waterline. Installing the HDPE waterline will provide “jointless” pipe throughout this portion of the system which shall greatly reduce the water loss to a minimum to save water and greatly reduce the amount the WSC currently pays for its water, of which savings are passed on to WSC customers.
Section 2 – Green Infrastructure
Certain green infrastructure 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. Provide reference to the applicable sections of the EPA GPR guidance (TWDB-0161) that demonstrate GPR eligibility. Provide a detailed description of the proposed green infrastructure improvements of sufficient detail that clearly demonstrates that the proposed improvements are consistent with EPA GPR guidance (TWDB-0161).

Guidance Reference:
The proposed improvements are consistent with EPA GPR guidance:
2.4-3: Efficient water use by reducing the amount of water treated and transported.
2.4-4: Addressing where water losses are occurring in the system by replacing aging infrastructure.
2.5-2: Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.

Detailed Description (attach additional pages if necessary):
The proposed project will include the installation of new water lines to eliminate leaks and reduce water loss. The green component includes saving water that is currently lost due to leaking system; saving electrical energy by elimination pumping of water lost; and replacing piping to eliminate sources of contaminants migrating into water supply. Green components include water efficiency, enhanced water conservation and increased energy efficiency.

Green amount associated with green infrastructure (business case eligible): $1,115,036.00
(Attach a detailed cost estimate if necessary)

TWDB-0163
Revised 12/2/2010
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:
  x  TWDB Water Loss Audit 2010 (attached )
  

Section 3.2 - Water Line Replacement

Proposed pipe to be replaced:

<table>
<thead>
<tr>
<th>Length (LF)</th>
<th>Existing Pipe</th>
<th>Proposed Pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Material</td>
<td>Dia.</td>
</tr>
<tr>
<td>56,000</td>
<td>PVC</td>
<td>30</td>
</tr>
<tr>
<td>28,000</td>
<td>PVC</td>
<td>30</td>
</tr>
<tr>
<td>4,500</td>
<td>PVC</td>
<td>30</td>
</tr>
</tbody>
</table>

Percent of distribution lines being replaced: 36.2% (estimated 60% of leakage in this targeted water line)

Number of breaks/leaks/repairs recorded in past 24 months for areas being replaced: 40

Estimated water loss from pipe being replaced (provide calculations on following page): 3,942.12 kgal / year (40% decrease)

Estimated annual water savings (provide calculations on following page): 5,913.23 kgal / year

Estimated annual cost savings (provide calculations on following page): $18,922.34 / year

TWDB-0163
Revised 12/2/2010
Provide detailed description of the propose 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 proposed improvements will include replacement of the existing 2", 2.5" and 3" PVC schedule 40 pipes that were installed in 1974. A past project in 2008 installed 42,650 lf of 4" SDR-11 HDPE waterline. The new pipe replaced old glue joint coupling pipe in a section of the system (8 miles out of 50 miles) that feeds or “loops” a majority of the system. After this project was finished, it enabled the WSC to better evaluate where the majority of the leaks were coming from. Using in-line meters, the proposed project was identified as the section most in need of repair with the highest water savings. The inline meters were not used all of the time but were used to help indicate where there were leaks along this 12 mile portion of the system. Over 20 leaks were repaired along these water lines in the last year. This section of the system is in a low area of the system and experiences the highest pressure. Additionally, this part of the system is located in an area where the soil is the least stable. Some of the water lines are located in low-lying areas. The instability caused by soil becoming saturated during even small rain events then drying out again exposes the pipeline to constantly shifting conditions. Some of the glue fittings fail and cause leakage. This described portion of the system is proposed to be replaced with 3", 2.5" and 2" SDR-11 HDPE jointless pipes. The existing portion of the system theoretically has 4,425 chances of having a leak (88,500 LF / 20’ joints) verse a portion of the system that will have welded joints every 1,000 ft/roll.

Green amount associated with water line replacement: $1,115,036.00

TWDB-0163
Revised 12/2/2010
Calculations (for page 12):

Estimated Water Loss: (from attached 2010 TWDB Water Audit form)

Total System: 55 miles - 8 miles (previously replaced) = 47 miles

Project Total Pipe: 17 miles
% of Total System: 17 miles / 47 miles = 36.2%

Based on the in-line metering that was accomplished to locate the leaks in the system, it is estimated that 60% of the system leakage is occurring in the project area. Therefore:

Total Real Losses: (from attached Audit report line #31): 9,855.38 kgal / year

Estimated water loss from pipe being replaced:

9,855.38 kgal / year x 60 % = 5,913.23 kgal / year (water loss eliminated through proposed project)
9,855.38 kgal / year - 5,913.23 kgal / year = 3,942.12 kgal / year (projected annual water loss)

Estimated annual water savings:

5,913.23 kgal / year x $3.20 / kgal (from report) = $18,922.34 / year

Savings over funding period (30 years): $18,922.34 x 30 years = $567,670.20

Note: Water rate is going up to $3.50/1000 gallon starting in August 2012
TEXAS WATER DEVELOPMENT BOARD  
P.O. BOX 13231, CAPITOL STATION  
AUSTIN, TX 78711-3231  
WATER AUDIT REPORTING FORM 2010  
If further assistance is needed, contact Mark Mathis at Mark.Mathis@twdb.state.tx.us or 512.463.0987.

A. Water Utility General Information

1. Water Utility Name: VALLEY WSC

2. Contact:
   2a. Name       Becky Hodges
   2b. Telephone # (806)-269-8000
   2c. Email Address hodgesb@pattonsprings.net

3. Reporting Period:  
   From 1/1/2010  
   To 12/31/2010  

4. Source Water Utilization, percentage:  
   Surface Water 100.00 %  
   Ground Water 0.00 %

5. Population Served:  
   5a. Retail Population Served 270
   5b. Wholesale Population Served 0

6. Utility's Length of Main Lines, miles: 55.00

7. Number of Wholesale Connections Served: 0

8. Number of Retail Service Connections Served: 270

9. Service Connection Density  
   (Number of retail service connections/Miles of main lines) 4.91

10. Average Yearly System Operating Pressure (psi): 55.00

11. Volume Units of Measure: KG

B. System Input Volume

12. Water Volume from own Sources: 0.00

13. Production Meter Accuracy (enter percentage): 0.00 %

14. Corrected Input Volume: 0.00

15. Wholesale Water Imported: 14,908.00
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<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>16. Wholesale Water Exported</td>
<td></td>
<td>0.00</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>17. <strong>System Input Volume</strong>&lt;br&gt;(Corrected input volume, plus imported water, minus exported water)</td>
<td></td>
<td>14,908.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>C. Authorized Consumption</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18. Billed Metered</td>
<td></td>
<td>4,729.00</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>19. Billed Unmetered</td>
<td></td>
<td>0.00</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>20. Unbilled Metered</td>
<td></td>
<td>0.00</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>21. Unbilled Unmetered</td>
<td></td>
<td>186.35</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td><strong>22. Total Authorized Consumption</strong></td>
<td></td>
<td>4,915.35</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>D. Water Losses</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>23. Water Losses</strong>&lt;br&gt;(Line 17 minus Line 22)</td>
<td></td>
<td>9,992.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>E. Apparent Losses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24. Average Customer Meter Accuracy (Enter percentage)</td>
<td></td>
<td>0.00 %</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>25. Customer Meter Accuracy Loss</td>
<td></td>
<td>0.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26. Systematic Data Handling Discrepancy</td>
<td></td>
<td>100.00</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>27. Unauthorized Consumption</td>
<td></td>
<td>37.27</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td><strong>28. Total Apparent Losses</strong></td>
<td></td>
<td>137.27</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>F. Real Losses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29. Reported Breaks and Leaks&lt;br&gt;(Estimated volume of leaks &amp; breaks repaired during the audit period)</td>
<td></td>
<td>3,000.00</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>30. Unreported Loss&lt;br&gt;(Includes all unknown water loss)</td>
<td></td>
<td>6,855.38</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td><strong>31. Total Real Losses</strong>&lt;br&gt;(Line 29, plus Line 30)</td>
<td></td>
<td>9,855.38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32. Water Losses (Apparent + Real)&lt;br&gt;(Line 28 plus Line 31) = Line 23</td>
<td></td>
<td>9,992.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33. Non-revenue Water&lt;br&gt;(Water Losses + Unbilled Authorized Consumption)</td>
<td></td>
<td>10,179.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
G. Technical Performance Indicator for Apparent Loss

34. Apparent Losses Normalized
   (Apparent Loss Volume/# of Retail Service Connections/365) 0.00

H. Technical Performance Indicators for Real Loss

35. Real Loss Volume (Line 31) 9,855.38

36. Unavoidable Annual Real Losses, volume (calculated) 6,775.31

37. Infrastructure Leakage Index (calculated)
   (Equals real loss volume divided by unavoidable annual real losses) 1.45460

38. Real Losses Normalized
   (Real Loss Volume/# of Service Connections/365)
   (This indicator applies if service connection density is greater than 32/mile) 0.10

39. Real Losses Normalized
   (Real Loss Volume/Miles of Main Lines/365)
   (This indicator applies if service connection density is less than 32/mile) 0.49

I. Financial Performance Indicators

40. Total Apparent Losses (Line 28) 137.27

41. Retail Price of Water
   $6.20000 2

42. Cost of Apparent Losses
   (Apparent loss volume multiplied by retail cost of water, Line 40 x Line 41) $851.07

43. Total Real Losses (Line 31) 9,855.38

44. Variable Production Cost of Water*
   $3.20000 1
   (*Note: in case of water shortage, real losses might be valued at the retail price of water instead of
   the variable production cost.)

45. Cost of Real Losses
   (Real Loss multiplied by variable production cost of water, Line 43 x Line 44) $31,537.22

46. Total Assessment Scale 16

47. Total Cost Impact of Apparent and Real Losses $32,388.29