Texas Water Development Board

STATE OF TEXAS

Intended Use Plan

Drinking Water State Revolving Fund

www.twdb.texas.gov/financial/programs/dwsrf

SFY 2017

TEXAS WATER DEVELOPMENT BOARD
PO BOX 13231 ▪ AUSTIN, TX 78711

Drinking Water State Revolving Fund

SFY 2017 Intended Use Plan

Dated: August 25, 2016

Cover Photo: Raymondville – New 4.5 MGD Water Treatment Plant

Contents

Texas Water Development Board rules governing the Drinking Water State Revolving Fund program (Texas Administrative Code, Title 31, Part 10, Chapter 371) may be accessed online at http://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC?tac_view=4&ti=31&pt=10&ch=371

Drinking Water State Revolving Fund
Acronyms

ACS	American Community Survey
AIS	American Iron & Steel
AMHI	Annual Median Household Income
CWSRF	Clean Water State Revolving Fund
DWSRF	Drinking Water State Revolving Fund
EPA	Environmental Protection Agency
FFY	Federal Fiscal Year
FMT	Financial, Managerial, and Technical
GPR	Green Project Reserve
HCF	Household Cost Factor
IUP	Intended Use Plan
IIPL	Initial Invited Projects List
MCL	Maximum Contaminant Level
NEPA	National Environmental Policy Act
PIF	Project Information Form
PPL	Project Priority List
PWS	Public Water System
SDWA	Safe Drinking Water Act
SFY	State Fiscal Year
SRF	State Revolving Fund
TCEQ	Texas Commission on Environmental Quality
TWDB	Texas Water Development Board

I. Overview

The Drinking Water State Revolving Fund (DWSRF) assists communities by providing below market-rate financing and various levels of principal forgiveness for a wide range of projects that facilitate compliance with primary drinking water standards or otherwise significantly further the health protection objectives of the Safe Drinking Water Act (SDWA). The program provides year-round funding of water projects after they have been included in the Intended Use Plan.

For State Fiscal Year (SFY) 2017, a total of $250 Million is available under the DWSRF for all financing options including $15 Million in principal forgiveness. Of the total amount available, $235 Million will be offered at interest rates of 125 basis points below the borrower's market rate level. These savings directly lower the overall cost of providing safe, affordable water to every customer.

II. Purpose

In 1996 Congress passed federal amendments to the SDWA that established the DWSRF program. The Texas Water Development Board (TWDB) is authorized by state law to administer this program for Texas.

The TWDB is the financing agency for the DWSRF and has a contractual relationship with the state's primacy agency, the Texas Commission on Environmental Quality (TCEQ), to perform DWSRF activities. TCEQ performs DWSRF activities that include rating proposed projects, state program management, small systems technical assistance, assessments for ground water sources, source water technical assistance, sanitary surveys, complaint investigations, enforcement activities, disaster assistance, and implementation of the State of Texas approved Capacity Development Strategy.

Annually, the State must prepare an Intended Use Plan (IUP) that describes how it intends to use DWSRF program funds to support the overall goals of the program. The IUP must contain a number of elements required by the Environmental Protection Agency (EPA) covering the operation of the DWSRF and is a central component of the TWDB's application to EPA for the capitalization grant.

The IUP contains the state's priority list of projects to receive funding under the DWSRF. This list is subdivided further into an Initial Invited Projects List (Appendix K), which represents the projects that will be invited to submit applications after Board approval of the IUP. After the initial invitation round, the remaining applications for funding under this SFY 2017 IUP will be accepted on a first-come, first-served basis throughout the year until the SFY 2018 IUP is approved.

III. Projects to Fund

A. Eligible Applicants

Applicants eligible to apply for assistance are:

- Existing community Public Water Systems (PWSs) including political subdivisions, nonprofit water supply corporations and privately owned community water systems
- Non-profit, non-community public water systems
- State agencies

B. Eligible and Ineligible Use of Funds

1. Examples of eligible project costs include planning, acquisition, design, and construction of projects to:

- Correct water system deficiencies including water quality, capacity, pressure, and water loss
- Upgrade or replace water systems
- Provide new or existing water service to other water systems through consolidation projects
- Purchase capacity in water systems
- Purchase water systems
- Implement green projects (pursuant to EPA guidance)
- Implement source water protection projects
- Pay for other costs necessary to secure or issue debt

All projects funded through the DWSRF must be consistent with the most recently adopted TWDB State Water Plan.

2. Examples of ineligible project costs include:

- Projects primarily intended to facilitate growth
- Water rights, unless owned by a system being purchased through consolidation;
- Construction of reservoirs
- Dams or rehabilitation of dams
- Projects for systems in significant noncompliance, unless funding will ensure compliance
- Projects for systems that lack adequate financial, managerial, and/or technical (FMT) capability, unless assistance will ensure compliance
- Routine laboratory fees or ongoing operational expenses
- Fire protection projects (unless incidental to the main project scope)

IV. Significant Program Changes

Significant program changes from the previous year's IUP are highlighted below.

1. **Urgent Need – added additional situations that may be funded. (Section VI)** Urgent Need may fund situations that require immediate attention to address a substantial, imminent public health issue affecting at least 20% of the water provided to customers. These public health issues to be addressed include (a) contamination in excess of water quality standards and (b) severe flood damage that occurred during a Governor-designated natural disaster.

2. **Urgent Need funding with a zero percent (0%) interest rate. (Section VI)** Projects that qualify for Urgent Need funding may also receive financial assistance with an interest rate of zero percent. The amount of funds available for Urgent Need funding with an interest rate of zero percent is limited.

V. Amount Available

1. Allocations

Texas will be eligible for a federal capitalization grant from funds appropriated by Congress for Federal Fiscal Year (FFY) 2016. The TWDB will use the grant, along with other available sources of funds, to provide $250,000,000 for projects in this SFY 2017 IUP. The sources of funds include the FFY 2016 capitalization grant, unexpended funds from prior grants, state match, principal and interest repayments from financial assistance, investment earnings, additional cash resources, and if demand warrants, the net proceeds from bond issues.

The DWSRF program offers subsidies in the form of both below-market interest rates and additional subsidization. The additional subsidization is offered as principal forgiveness to eligible disadvantaged communities, very small systems, urgent need projects, and green projects. Throughout the IUP, this principal forgiveness may be referred to as Additional Subsidization, Subsidized Green funding, Very Small Systems funding, Urgent Need funding, or Disadvantaged Community funding.

The $250,000,000 available for SFY 2017 will be allocated to the following funding options.

Funds Available

Funding Option	Allocation
Disadvantaged Community	$10,000,000
Subsidized Green	$1,000,000
Very Small Systems	$3,000,000
Urgent Need	$2,000,000
Bonds/Loans	$234,000,000
Total	**$250,000,000**

2. Level of Savings Available Under Each Funding Allocation:

Funding Option	Principal Forgiveness	Interest Rate	Origination Fee
Disadvantaged Community	30%, 50%, or 70%	125 basis points below market *	2.25%**
Subsidized Green	15%		
Very Small Systems	100%	N/A	N/A
Urgent Need	100%		N/A
Urgent Need – Bond/Loan		0% ***	2.25%
Bond/Loan	N/A	125 basis points below market *	2.25%

* Based on a level debt service schedule
** Not assessed on the principal forgiveness portion
*** Amount of Urgent Need funding available at 0% is limited

VI. Funding Options and Terms

Entities listed on the Initial Invited Projects List (IIPL) and subsequent Project Priority Lists (PPLs) may be invited to apply for one or more of the funding options.

1. Disadvantaged Community Funding

For an entity to qualify as a disadvantaged community, the community must meet the DWSRF's affordability criteria based on income, unemployment rates, and population trends. In summary, the Annual Median Household Income (AMHI) of the entity's area to be served must be less than or equal to 75% of the State's AMHI and the Household Cost Factor that considers income, unemployment rates, and population trends must be greater than or equal to 1% if only water or sewer service is provided or greater than or equal to 2% if both water and sewer service are provided. The percent of principal forgiveness is based on the difference between the calculated and minimum required household cost factors, as illustrated in the following table:

Household Cost Factor Difference	Principal Forgiveness as a % of estimated DWSRF-funded project costs
≥ 0% and < 1.5%	30%
≥ 1.5% and < 3%	50%
≥ 3%	70%

This funding option offers a financial assistance component with the interest rate subsidy and 30%, 50%, or 70% of the total project cost in principal forgiveness. The

maximum repayment period is 30 years. The origination fee will not be applied to project costs that are funded with principal forgiveness. Additional information may be found in Appendix D.

2. Subsidized Green Funding

Entities may receive Subsidized Green principal forgiveness if their project has elements that are considered green and the cost of the green portion of their project is 30% or greater than the total project cost. This funding option offers principal forgiveness for up to 15% of the total eligible green component costs. Additional information may be found in Appendix E.

3. Very Small Systems Funding

The TWDB recognizes the difficulty for very small systems to secure financial assistance. In an effort to extend resources to address critical issues with these public water systems, the TWDB will allocate up to $3,000,000 in Additional Subsidization to target systems with populations of 1,000 or fewer for projects addressing public health, compliance, or water quantity issues. Entities may be eligible to receive 100% of the total project cost in principal forgiveness up to a total of $200,000 per project. A particular public water system may only receive a total of $200,000 in principal forgiveness of Very Small Systems funds in a program year. In the event funding does not fully cover total project costs, the entity will need to secure additional financial assistance to complete the proposed project.

4. Urgent Need

Urgent Need projects must address situations that require immediate attention to protect public health and safety. They may result from (1) an unanticipated reduction in the adequate supply of water due to prolonged drought that will result in the loss of water service to customers within the next 180 days; (2) a catastrophic natural event or accident resulting in the loss of over 20% of the water service connections or 20% of the total water provided to customers; (3) situations that require immediate attention to address a substantial, imminent public health issue affecting at least 20% of the water provided to customers, such as contamination in excess of water quality standards; (4) situations that require immediate attention to address a substantial, imminent public health issue affecting at least 20% of the water provided to customers from severe flood damage that occurred during a Governor-designated natural disaster; and (5) other situations as established by TWDB guidelines. Urgent Need projects submitted after the March 3, 2016 project information form submission deadline may be invited in the first round of invitations for funding. The Executive Administrator may bypass projects to provide funding to Urgent Need projects. An Urgent Need project may qualify and receive funding concurrently as a Disadvantaged Community, Very Small System, and Subsidized Green project, provided funding is available. Entities may be eligible to receive 100% of the total project cost in principal forgiveness up to a total of $500,000 per project. A particular

public water system may only receive a total of $500,000 in principal forgiveness of Urgent Need funds in a program year. If eligible project costs exceed the Urgent Need principal forgiveness available for the project, the entity may receive funding with an interest rate reduced to zero percent for the remainder of the project expenses. The amount of funds available in SFY 2017 for Urgent Need funding with an interest rate of zero percent is limited.

5. Bond/Loan Funding

All entities that are listed on a PPL that are invited to submit applications are eligible to receive funding through the TWDB's purchase of the entity's bonds or through a loan agreement as allowed under the entity's governing law. All financial assistance will be offered at an interest rate subsidy of up to 125 basis points below market interest rates based on a level debt service schedule.

An origination fee of 2.25% is assessed at closing on the portion of a commitment that requires repayment. The origination fee does not apply to any principal forgiveness amounts. The financial assistance recipient has the option of financing the origination fee or paying this fee up front at closing.

An entity may receive Disadvantaged Community, Green, Very Small System, and Urgent Need principal forgiveness, concurrently with a bond or loan. The entity may also be eligible for a maximum repayment period of 30 years provided the extended term reserve has not been met.

6. Terms of Financial Assistance

Financing may be offered for a term of up to 30 years for the planning, acquisition, design, and/or construction phases for up to 75 percent of available funds according to TWDB determined guidelines and in accordance with the SDWA. The remainder of available funds may be offered for a term up to 20 years. The term of financial assistance offered may not exceed the expected design life of an eligible project.

7. Federal Requirements on Available Funds

Funds are subject to federal requirements such as Davis-Bacon Act prevailing wages and American Iron and Steel provisions. DWSRF-funded projects must follow all federal cross-cutter requirements and EPA's signage requirements. These requirements are outlined in Appendix E.

VII. Multi-year Commitments

In SFY 2017, the DWSRF will offer multi-year commitments up to five years to assist entities that need to fund projects over a period of time. This option will provide a reliable source of capital based on a commitment structure that meets the annual capital requirements of the project. To assist in providing for long-term financial planning, the minimum interest rate reduction (e.g. 125 basis points) for the multi-year commitments will be established and

locked for the five-year period based on the interest rate reduction in the IUP for the first year's commitment. If the interest rate reduction is increased for a particular year during the multi-year commitment period, the entity will receive the benefit of the increased reduction for that year. Similarly, if the loan origination fee is reduced for a particular year during the multi-year commitment period, the entity will receive the benefit of the lower loan origination fee for that year.

This option is only available for projects that do not receive Additional Subsidization in the form of principal forgiveness as a Disadvantaged Community based on the affordability criteria. However, the entity receiving a multi-year commitment may receive Additional Subsidization for the other eligible options, such as green subsidy, for the funds committed for the initial year.

Annually, prior to the development of each year's IUP, any entity receiving a multi-year commitment will be required to re-confirm their anticipated funding commitments established with the initial commitment.

VIII. Cost Savings Calculation

The DWSRF program provides cost-effective funding that will result in significant savings compared to market-rate financing. The chart below illustrates the estimated savings from using the DWSRF based on the Loan Comparison Calculator currently located on the TWDB website (http://www.twdb.texas.gov/financial/index.asp). This example assumes a borrower with an AA market rating receives DWSRF financial assistance of $10 Million over 30 years with an interest rate reduction of 125 basis points from the market rate.

Funding Option	Cost of Funds	DWSRF Amount of $10,000,000 over 30 yrs.		% Savings over Market
		Debt Service Payments over 30 Years	Present Value of Payments over 30 Years	
Market – Borrower rating of AA	2.5%	$14,420,000	$11,806,000	
DWSRF	1.3%	$12,222,000	$10,000,000	
Savings Using DWSRF *		**$2,198,000**	**$1,806,000**	**18%**

* Rates were current as of June 9, 2016. The example above is for illustrative purposes only.

IX. Goals

The primary goal of the Texas DWSRF program is to improve public health protection. In addition, the overall goals of the Texas DWSRF program are to identify and provide funding for maintaining and/or bringing Texas' PWSs into compliance with the SDWA; to support affordable drinking water and sustainability; and to maintain the long-term financial health of the DWSRF program fund. Specific goals to achieve those ends are listed below.

A. Short-Term Goals

1. Encourage the use of green infrastructure and technologies by offering principal forgiveness for green infrastructure, energy efficiency, water efficiency, or environmentally innovative portions of projects and allocating an equivalent of 10% of the capitalization grant to approved green project costs.

2. Offer terms of up to 30 years for the planning, acquisition, design, and/or construction for up to 75 percent of available funds in accordance with TWDB determined guidelines and the SDWA.

3. Increase the amount of funding available by leveraging the program as necessary to meet the demand for funding additional drinking water projects.

4. Utilize, if necessary, the strength of the Clean Water State Revolving Fund (CWSRF) to enhance the DWSRF by cross-collateralizing the programs in accordance with state and federal law.

5. Enhance our current level of outreach on the State Revolving Fund (SRF) programs by hosting regional financial assistance workshops in conjunction with the continued use of social media.

6. Assist water systems with urgent needs through financial assistance in the form of principal forgiveness and zero-percent loans from the Urgent Need reserve.

B. Long-Term Goals

1. Maintain the fiscal integrity of the DWSRF in perpetuity.

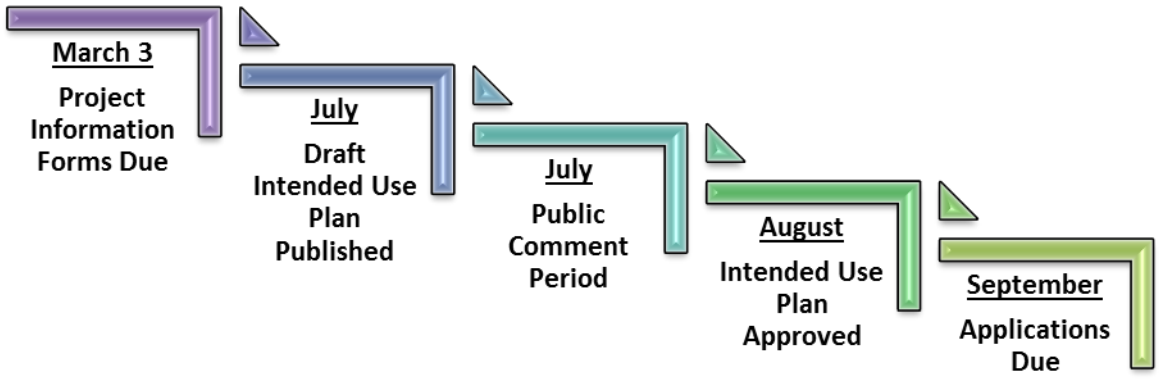
2. Employ the resources in the DWSRF in the most effective and efficient manner to protect public health and assist communities in maintaining compliance with SDWA requirements and maintain a strong financial assistance program that is responsive to changes in the state's priorities and needs.

3. Assist borrowers in complying with the requirements of the SDWA by meeting the demands for funding eligible water projects by providing financial assistance with interest rates below current market levels and with Additional Subsidization in the form of principal forgiveness.

4. Support the development of drinking water systems that employ effective utility management practices to build and maintain the level of financial, managerial and technical (FMT) capacity necessary to ensure long-term sustainability.

X. Participating in the DWSRF Program

Below are the major steps in the production of the initial IUP for SFY 2017.



A. Solicitation of Project information

Project information was solicited from eligible entities across the state using direct emails, notices posted on the TWDB website, and financial assistance workshops held throughout the State. Potential applicants submitted Project Information Forms (PIFs) by the response deadline of March 3, 2016.

The required information submitted on a PIF consisted of:

- A detailed description of the proposed project.
- A map(s) showing the location of the service area.
- An estimated total project cost that is certified by a registered professional engineer if project costs are greater than $100,000.
- A checklist and schedule of milestones to determine a project's readiness to proceed to construction.
- The population currently served by the applicant.
- Green project information, if applicable.
- Signature of the applicant's authorized representative.

- Additional information detailed within the solicitation for projects as needed to establish the priority rating.

B. Updating Projects from the Prior Intended Use Plan

For SFY 2017, a potential applicant must update, at a minimum, the readiness to proceed information, and if seeking disadvantaged community eligibility, the socioeconomic economic census data and utility rate information. The requirement to update the readiness to proceed information will apply to an entity that previously received a commitment for Planning, Acquisition and/or Design only and desires to be considered for the construction portion of the project.

C. Evaluation of the Project Information Received and Priority Rating System

All PIFs received an initial review by TWDB staff. The TWDB evaluated submissions requesting eligibility for disadvantaged community status using the affordability criteria, which is described in detail in Appendix D. The TWDB rated projects based on effective management criteria presented in Appendix C. Throughout the evaluation process, entities were contacted by staff if additional information was needed for clarifying their eligibility for disadvantaged status or effective management points.

Concurrent with TWDB's rating process for disadvantaged community status and effective management, TCEQ performed the priority rating for water system projects. The general rating criteria for projects are briefly described below, with details provided in Appendices C and D. For information on scoring for specific projects, a report detailing the scoring for each project will be posted on the TWDB's website.

1. Rating Criteria for Water System Projects

- Health and Compliance – factors regarding public health concerns/issues or violations of Maximum Contaminant Levels (MCLs) pursuant to 40 Code of Federal Regulations Part 141 (see Appendix C)
- Secondary Compliance – factors regarding secondary chemicals and/or physical deficiencies (see Appendix C)
- Effective Management – factors relating to the implementation of effective management practices (see Appendix C)
- Affordability – factor applied to an entity that qualifies as a disadvantaged community (see Appendix D)

2. Rating Criteria for Source Water Protection Projects

- Groundwater System Vulnerability – factor relating to vulnerability of groundwater systems (see Appendix C)

- Surface Water System Vulnerability – factor relating to vulnerability of surface water systems (see Appendix C)
- Effective Management – factors relating to the implementation of effective management practices (see Appendix C)
- Affordability – factor applied to an entity that qualifies as a disadvantaged community (see Appendix D)

D. Ranking and Creation of the Project Priority List and Initial Invited Projects List

Each project submitted by the initial deadline and determined to be eligible is ranked from highest to lowest by the combined rating factors and included on the PPL. In the event of ties in the rating, priority is given to the project serving the smaller total population. Project information submitted after the March 3rd deadline was not considered for rating purposes prior to adoption of the initial PPL. Following approval of the IUP, changes to a ranked project that result in a project no longer addressing the issues for which it was rated will require the project to be re-rated and re-ranked. Changes in the project that do not trigger re-rating and re-raking are:

1. The applicant for a proposed project changes but the project does not change;
2. The number of participants in a consolidation project changes and the change does not result in a change to the combined rating factor; and
3. The fundable amount of a proposed project does not increase by more than 10% of the amount listed in the approved IUP. The Executive Administrator may waive the 10% limit to incorporate additional elements to the project; however, any Additional Subsidization awarded may not exceed the original IUP amount's allocation.

The IIPL presented in the IUP (Appendix K) refers to a subset of projects from the PPL and includes only the projects to be invited to apply for funding during the initial invitation round following the Board's approval of the IUP. The IIPL includes the type and amount of funding necessary to meet requirements and goals of the DWSRF, such as Additional Subsidization and Reserve requirements. Based on a review of readiness to proceed to construction, the TWDB determined which phases would be eligible to receive funding during SFY 2017. The phases indicated on the IIPL represent the phases deemed eligible based on that review. Projects that were determined to be ready to proceed to construction were included on the IIPL. If an entity is interested in applying for additional phases of the project not listed on the IIPL or not mentioned in the invitation letter, an updated Readiness to Proceed to Construction form must be submitted and an eligibility determination will be made by TWDB prior to the pre-application meeting.

An entity that previously received a commitment for Planning, Acquisition and/or Design only and desires to be considered for the construction portion of the project must update, at a minimum, the readiness to proceed information. It will then be added to the PPL for construction phase funding based on the number of points they received in the year they

were rated. Any invitation for construction phase funding is contingent upon the project having met the required ready to proceed milestones.

A project submitted for the SFY 2017 IUP that received a commitment for all requested phases from TWDB prior to creation of the initial PPL has not been included on the initial PPL. Those projects that already received the commitment are shown as being ineligible for funding. A project that previously received a commitment from TWDB for only the initial phase of the project, such as planning, acquisition, and/or design, and also provided an update of the project's readiness to proceed to the construction phase has been listed on the initial PPL.

E. Bypassing Projects

The TWDB's Executive Administrator may decide to bypass, or skip, higher ranked projects in favor of lower ranked projects to ensure that funds available are utilized in a timely manner and that statutory and capitalization grant requirements are met. In addition, if an entity is offered funding for any project that has an interrelated project ranked lower on the list, the Executive Administrator has discretion to also offer funding for the interrelated project. Reasons for bypassing projects are discussed in Appendix F.

F. Phases on the Initial Invited Projects List

1. Pre-Design Funding Option (or Planning, Acquisition, Design and Construction Funding)

The pre-design funding option allows an applicant to receive a single commitment for all phases of a project. The construction portion of the project must be deemed ready to proceed before funds for the construction phase will be released.

2. Construction Funding Only

All projects that were determined to be ready to proceed to construction based on the current status of their planning, acquisition, and design activities were included on the IIPL and will receive an invitation to fund the construction portion of the project.

3. Planning, Acquisition, and Design

A project on the IIPL that was not deemed ready to proceed to construction may receive an invitation to fund only the Planning, Acquisition, and/or Design portion of the project.

G. Invitations and Application Submissions

Entities with projects on the IIPL will be informed of the opportunity to submit an application for the project phases shown on the list using the funding options in the next section. The projects listed on the IIPL that are interested in pursuing funding are encouraged to begin working on their applications upon publication of the draft IUP in

order to have a complete application ready to submit after the IUP is approved. Prior to submitting an application, entities are required to participate in a pre-application meeting to discuss the application process and project requirements. Invited applications from projects on the IIPL that are received during the initial invitation round after Board approval of the IUP will be allotted funding for Additional Subsidization (principal forgiveness) based on rank order. All projects must be determined administratively complete as submitted or within 14 days from the date the applicant receives a notice to correct deficiencies or any Additional Subsidization may be re-allotted on a first-come, first-served basis.

Each application received by the TWDB will be reviewed to ensure that the required milestones have been met to allow funding of the phase(s) being requested. If the application review determines that a project is not ready to proceed for funding for the phase(s) being requested, the project may be bypassed for any additional subsidy amounts or receive limited phases of funding.

Entities invited for only planning, acquisition and/or design phases but wish to pursue Construction phase funding, may provide an updated Readiness to Proceed to Construction form for review.

Projects may be bypassed if an applicant fails to timely submit a complete application or additional requested information. After the initial invitation period, all other projects on the PPL will be invited and applications will be processed on a first-come, first-served basis, with funding allocations based on the date the application is considered administratively complete.

Applicants may submit a PIF at any time for a project to be considered for inclusion on the amended PPL. Eligible projects will be rated and ranked and added to the project lists. Amendments to the project lists will undergo a 14-day public review period that will be advertised on the agency website. Once the project has been added to the amended PPL, the TWDB will send out an invitation to apply on a first-come, first-served basis provided funding is available.

H. Addressing Any Water Loss Mitigation within the Application

If a retail public utility's total water loss meets or exceeds the threshold for that utility in accordance with §358.6 of Title 31, Part 10, Texas Administrative Code, the retail public utility must use a portion of any financial assistance received from the DWSRF, or any additional financial assistance provided by the TWDB, to mitigate the utility's water loss. However, at the request of a retail public utility, the TWDB may waive this requirement if the TWDB finds that the utility is satisfactorily addressing the utility's system water loss. Mitigation, if necessary, will be in a manner determined by the retail public utility and the TWDB's Executive Administrator in conjunction with the project proposed by the utility and funded by TWDB.

I. Commitment Timeframes for Projects with Principal Forgiveness Component(s)

Due to the high demand and limited availability of subsidized funding, it is imperative that applicants offered these funds proceed in a timely manner. Therefore, the TWDB has established commitment timeframes for projects that qualify and have been designated to receive Additional Subsidization in the form of principal forgiveness. If an applicant does not proceed through the application process and obtain a funding commitment within the timeframes listed below, the Additional Subsidization may be re-allocated to another eligible project. In extenuating circumstances, TWDB may grant an extension of time for obtaining a commitment if an applicant demonstrates sufficient reason for a delay.

Principal Forgiveness Type	Commitment Deadline
Disadvantaged Community	4 months
Very Small Systems	4 months
Green Subsidy	4 months
Urgent Need	3 months

J. Closing Deadlines

The deadline to close a commitment is dependent on whether the commitment includes Additional Subsidization in the form of principal forgiveness. Commitments that include only principal forgiveness must close within three months from the date of commitment. All commitments that include principal forgiveness funding concurrently with bonds/loan funding must close within six months from the date of the commitment. All commitments for bonds/loan funding without any principal forgiveness funding must close within one year from the date of commitment. For multi-year commitments described in the next section, the closing deadline for the initial year will follow the chart below. For each subsequent year, the commitment must close within the dates established by the TWDB at commitment. In extenuating circumstances, the Board may grant extensions of time to close if an applicant demonstrates sufficient reason for a delay.

Type of Financial Assistance	Closing Deadline
Commitments that include only principal forgiveness	3 months
All commitments that include principal forgiveness and bonds/loan	6 months
All commitments for bonds/loan without any principal forgiveness	12 months

K. Limits on Funding

1. Proportionate Share

The TWDB may limit the amount of funding available to an individual entity based on a proportionate share of total funds available.

2. Additional Project Funding Before Closing

The total project costs may be increased if the entity shows that additional funds are necessary to implement the project. If the project includes Additional Subsidization, the total amount of Additional Subsidization in the form of principal forgiveness allocated to the project may not increase from the amount listed in the adopted IUP unless Additional Subsidization funding is available.

3. Cost Overruns After Closing

In the event of cost overruns on projects funded from a previous commitment, additional funding may be considered on a case by case basis.

L. Leveraging to Provide Additional Funding

The TWDB may leverage the DWSRF program as necessary to meet the demand for funding additional drinking water projects.

M. Funds from Prior Years

Additional funds that may become available through unobligated previous grant funds, or deobligation or closure of previous commitments will be available for eligible projects.

N. Transfer of Funds

Section 302 of the SDWA Amendments of 1996 provides states the authority to reserve and transfer funds between the DWSRF and the CWSRF programs. In accordance with Section 302, the TWDB hereby reserves the authority to transfer an amount up to thirty-three percent (33%) of the DWSRF program capitalization grant(s) to the CWSRF program or an equivalent amount from the CWSRF program to the DWSRF program.

O. Updates to the Intended Use Plan

Substantive changes to the IUP will be made through an amendment after a 14-day public review and comment period. Non-substantive changes may be made by the TWDB without public notification.

XI. Set-Asides

Federal regulations allow states to set aside up to 31% of the capitalization grant funds for purposes other than financing construction projects for water systems. The TWDB anticipates the set asides for SFY 2017 will be allocated as follows: 4% for the TWDB for administration, 10% for TCEQ for State Program Management, 2% for TCEQ for Small Systems Technical Assistance, and $1,800,000 (approximately 3%) for TCEQ for Local Assistance and Other State Programs.

A. Texas Water Development Board Administration Activities

The SDWA allows a state to set aside funds equal to 4% of its annual capitalization grant for the reasonable costs of administering the DWSRF. In addition, Federal regulations governing the DWSRF program permit a state to reserve its authority to take an amount equal to 4% of the current year's grant from a future grant to defray the cost of administering the program. The TWDB, as it has done since SFY 1998, is reserving that authority.

The TWDB will draw administrative set-asides from the FFY 2016 Capitalization Grant in the approximate amount of $2,404,160. These funds will be used for allowable expenses such as reporting activities, payment processing, application assistance, and project development and monitoring. In addition, the TWDB assesses fees for the purpose of recovering administrative costs. These fees are placed in a separate account for future administrative expenses. The fees are generated by an assessment of 2.25% of the portion of the DWSRF financial assistance that is repaid and is assessed at closing. Fees collected will be deposited into the Administrative Cost Recovery Fund.

B. Texas Commission on Environmental Quality Activities

The funds for TCEQ Set-Aside activities from the FFY 2016 capitalization grant total $9,012,480 may be used in SFY 2017. Remaining funds from the previous DWSRF grant, except for funds for Local Assistance and Other State Programs, may also be used in SFY 2017.

State Program Management Set Aside from FFY 2016 grant	$6,010,400
Small Systems Technical Assistance Set Aside from FFY 2016 grant	$1,202,080
Local Assistance and Other State Programs Set Aside from FFY 2016 grant	$1,800,000
Total TCEQ Set-Aside amount from FFY 2016 grant	**$9,012,480**

A detailed description of activities may be found in TCEQ's DWSRF Set-Aside Work Plans. Activities are expected to be completed by August 31, 2017.

C. Coordination of Activities with the Texas Commission on Environmental Quality

The TWDB and TCEQ regularly communicate to discuss projects in need of financial assistance through the DWSRF program. The two agencies hold periodic DWSRF coordination meeting and TCEQ staff attend many of TWDB’s pre-application meetings and financial assistance workshops.

XII. Financial Status

The base amount of funding available for SFY 2017 is set at $250,000,000. The amount of the FFY 2016 capitalization grant allotment for the DWSRF program is $60,104,000, with a match of $12,020,800 to be provided by the state. If demand warrants, the TWDB may

leverage the DWSRF to provide additional financial assistance to projects. The TWDB will comply with the requirements associated with the FFY 2016 allotment in SFY 2017.

A. Sources of State Match

The deposit of required state match will occur in advance or at the time of the scheduled grant payment and the source of funding for the match, which may include the proceeds of bonds sales or state appropriations, varies based upon availability.

B. Binding Commitment Requirement

The TWDB will enter into binding commitments during SFY 2017 that total 120% of the amount of a FFY 2016 grant payment allocated to projects within one year after the receipt of the grant payment. A binding commitment occurs when the TWDB's Board adopts a resolution to commit funds to a project. To meet the binding commitment requirement, the initial round of projects invited to submit applications exceeds the amount of the capitalization grant and state match funds. After the initial invitation round, TWDB invites additional entities to submit applications on a first-come, first-served basis. If all of the grant funds are not committed or otherwise obligated; grant funds remaining after the SFY 2017 funding cycle has ended will be rolled forward to the SFY 2018 IUP.

C. Leveraging and Cross-collateralization

The DWSRF may be leveraged to provide funds over and above the capitalization grant and state match to assist public water systems meet their needs. In order to leverage, the TWDB may issue debt obligations which would be repaid using repayments from recipients of DWSRF financial assistance. As authorized by the SDWA, Clean Water Act, and the Texas Water Code, the TWDB may use the assets of the DWSRF and the CWSRF as a source of revenue and security for the payment of the principal and interest on revenue bonds for the DWSRF and CWSRF. The authority to cross-collateralize the DWSRF and CWSRF enhances the ability of the DWSRF to leverage its funds and increase its lending capacity without harm to the SRF programs.

D. Method of Cash Draw

The method of cash draw for the FFY 2016 capitalization grant is to expend the required state match first, and then federal funds will be drawn at a rate of 100%.

E. Long-Term Financial Health of the Fund

The long-term financial health of the DWSRF is monitored through ongoing cash flow and capacity modeling. The TWDB lending rate policy has been established to preserve the corpus of the capitalization grants and state match funds, excluding the amount of principal forgiveness and set-aside amounts from each grant. The TWDB will continue to manage the DWSRF to ensure funds will be available in perpetuity for activities under the SDWA.

F. Interest Rate Policy

The TWDB has established an interest rate policy that provides for fixed rates. The fixed interest rate for the program is designed to provide borrowers with a 125 basis point reduction from the market based on a level debt service payment schedule. Fixed rates are set five business days prior to the adoption of the political subdivision's bond ordinance or resolution or the execution of the financial assistance agreement and are in effect for forty-five days.

G. Fees

The only fee is an origination fee of 2.25% that is assessed at closing. Fees are not deposited into the DWSRF. The fees may be used for administrative costs, including, but not limited to, project oversight, and long-term financial monitoring.

H. EPA Program Evaluation Report and Audit

EPA conducted an annual program review of the DWSRF for SFY 2015 through an onsite review occurring from February 22, 2016 to February 25, 2016. EPA is currently preparing the report based on the annual review.

The Texas State Auditor's Office published the results of the SFY 2015 Single Audit of the DWSRF on February 22, 2016 (Report 16-317). There were no findings as a result of the review.

XIII. Navigating the Lists

Appendices G – L are a series of lists that detail the proposed project information of each based upon the PIFs received.

- **Appendix G** - The alphabetical list is the PPL sorted alphabetically. It contains the project information; the name of the applying entity, their total number of points and associated priority order rank, the type of system, the system's PWS ID number, the total population based on TCEQ data, a detailed description of the proposed project, all project phases requested by the entity, the estimated construction start date, total project cost, the percentage of principal forgiveness if the project is eligible to receive disadvantaged funding, information regarding included green components, and a reference to any other related PIFs from the current or previous IUPs. A grand total for all of the projects is listed on the last page of the appendix.
- **Appendix H** – Lists projects that were deemed ineligible to receive DWSRF funding with a brief description as to why they were deemed ineligible.
- **Appendix I** – Lists projects that were deemed ineligible to receive disadvantaged funding with a brief description as to why they were deemed ineligible. The project may still be eligible to receive other funding options.
- **Appendix J** – Lists projects in order of highest priority to receive funding. The content is the same as the alphabetical list in Appendix G.

- **Appendix K** – Is the list of projects that will be invited in the initial invitation round. The information provided in this list is similar to the alphabetical and priority order lists. The TWDB has determined which project phases are eligible to receive funding during this SFY, which is depicted in the Phase(s) column. Projects on this list will receive an invitation letter from the TWDB upon Board approval of the IUP. Pertinent notes and the definitions of acronyms and footnotes are listed on the last page of the appendix along with a grand total for the projects.

- **Appendix L** - The Initial Invited Green Projects List is a subset of the IIPL of only projects with green components. The information detailed includes a description of the green components, the categories of those green components, the eligible phases of the project, the total project cost, the total of the green component costs, the type of green project, and whether the proposed project is eligible to receive subsidized green funding. A grand total for the projects is listed on the last page of the appendix along with any pertinent notes and the definitions of acronyms and footnotes.

Appendix A Public Review and Comment

Public Participation in the Development of the Intended Use Plan

Public participation is an important and required component of the IUP development process. The TWDB takes seriously its responsibility in administering these funds and considers public input necessary and beneficial.

A. Notice

To seek public comment on the proposed uses of funds, the draft amended IUP, including the associated lists, was made available for a 30-day public comment period. The draft SFY 2017 DWSRF IUP, dated July 7, 2016, was announced as follows:

- Public notification of the draft IUP, the public comment period, and public hearing notice were posted on the TWDB website at www.twdb.texas.gov.
- A notice of the public hearing was published in the *Texas Register*.
- A copy of the draft IUP was sent to EPA.

B. Comment

Comments were accepted via the following four options from July 7, 2016, until 5:00 P.M. on August 5, 2016.

1. Attending a public hearing that was held on July 14, 2016, at 2:00 P.M. in Room 170 of the Stephen F. Austin Building located at 1700 N. Congress Avenue in Austin, Texas
2. Submitting comments via the following online comment page:

   https://www2.twdb.texas.gov/apps/iup/
3. Emailing comments to the following electronic mail address and specifying in the subject line "*DWSRF comments*".

   iupcomments@twdb.texas.gov.
4. Mailing comments to the following postal mail address:

   Ms. Jo Dawn Bomar
   Director, Program Administration and Reporting
   Texas Water Development Board
   P.O. Box 13231
   Austin, TX 78711-3231

In accordance with federal requirements, all comments were responded to on an individual basis and reported to the TWDB's Board at the time of their review of the IUP.

C. Approval

The SFY 2017 DWSRF IUP will be finalized once it is considered and approved by the TWDB's Board.

D. Documentation

After Board approval, the final approved IUP will be formally submitted to the EPA and posted on the TWDB website.

Appendix B. Projected Sources and Uses of Funds

09/01/2016 to 08/31/2017

(As of May 31, 2016)

SOURCES:	
FFY 2016 Federal Capitalization Grant	$60,104,000
State Match - for FFY 2016 Federal Capitalization Grant	$12,020,800
Undrawn previous grants	$78,472,316
Principal Repayments	$46,277,461
Interest Repayments	$14,357,332
Investment Earnings on Funds	$513,963
Cash available	$163,682,725
TOTAL SOURCES:	**$375,428,597**
USES:	
Set-Asides from FFY 2016 Grant:	
TWDB Administrative Set-Aside	$2,404,160
Total TWDB Set-Aside:	$2,404,160
TCEQ Small Systems Technical Assistance Program Set-Aside	$1,202,080
TCEQ Texas State Management Program Set-Aside	$6,010,400
TCEQ Local Assistance and Other State Programs Set-Aside	$1,800,000
Total TCEQ Set-Asides	$9,012,480
Set-Asides from prior grant	$7,411,733
Projects to be funded:	
SFY 2017 IUP Commitments – Additional Subsidization	$16,000,000
SFY 2017 IUP Commitments – Bonds/Loans (Available Amount less Addit. Subsidy)	$234,000,000
Total Projects To Be Funded - SFY 2017:	$250,000,000
Projects already pledged	
Commitments	$57,623,422
Applications	$23,236,845
Installment closings during SFY 2017	$13,523,000
Total Projects Already Pledged or being processed:	$94,383,267
Debt Service for Match:	
Principal Payments	$8,032,391
Interest Payments	$4,184,566
Total Debt Service:	$12,216,957
TOTAL USES:	**$375,428,597**
NET SOURCES (USES):	**$0**

Fees are not deposited into the Fund; therefore, based on EPA guidance they are not included in the Sources and Uses for the Fund

Appendix C. Rating Criteria

TCEQ Ratings

All TCEQ ratings will be summed then multiplied by 10 before adding effective management and affordability points.

Combined Rating, Health and Compliance, and Primary Compliance Factors

Microbiological Factors	**Points**
The sum of the total coliform MCL violations, total acute coliform MCL violations, and the treatment technique violations (including all exceedances of the 0.5 Nephelometric Turbidity Units standard), disregarding one violation.	(TCV=s)+(ACV=s)+(TT)-1
Chronic Chemical	
The compliance result above the MCL for any chronic exposure chemical, divided by the MCL level.	Result/MCL
Acute Chemical	
Three times the compliance result above the MCL for Nitrate or Nitrite, divided by the MCL level.	(Result/MCL) X 3
Carcinogen	
Two times the compliance result above the MCL for any carcinogenic chemical, divided by the MCL level.	(Result/MCL) X 2
Lead/Copper	
Two times the greater of the 90th percentile lead level divided by the lead action level or the 90th percentile copper level divided by the copper action level.	[Greater of (Pb90/0.015) or (Cu90/1.3)] X 2
Filtration	
Awarded to any system with one or more sources identified as surface water or groundwater under the direct influence of surface water for which no filtration is provided.	12.00
Groundwater Rule Factor	
Awarded to any system with one or more sources of water identified as groundwater requiring 4-log viral inactivation for which 4-log inactivation is not provided.	12.00

Population Factor

Added to the sum of the other Primary compliance factors to determine the overall compliance rating.

Population Range	
0-100	0.00
101-1,000	1.00
1,001-10,000	2.00
10,001-100,000	3.00
100,001+	4.00

Secondary Compliance Factors

Secondary Chemical	
One half the compliance result above the MCL for any secondary chemical violation for sulfate, chloride, and total dissolved solids, divided by the MCL level. (Maximum of 1 pt.)	(Result/MCL) X 0.5

Physical Deficiency Factor

A rating based on the confirmed existence of physical deficiencies within the water system. This rating will be used to prioritize systems with no other Health and Compliance Factors or Affordability Factors.

Deficiency:

Pressure <20 psi	1.00	Water Loss >25%	0.25
No disinfection	1.00	Pressure >20 & <35 psi	0.25
Production <85%	0.25	Other Secondary MCLs	0.25
Storage <85%	0.25		

Consolidation Factor

The sum of all factors for each system which will be consolidated. One half the sums of all factors for each system which will be provided wholesale water.

TWDB Ratings

Effective Management

An adopted asset management plan that contains an inventory of assets, an assessment of the criticality and condition of assets, a prioritization of capital projects, and a budget.	1.50
Entity plans to prepare an asset management plan with completion of proposed project	1.00
Providing asset management training for the entities governing body and employees	0.50
Project addresses a specific goal in a water conservation plan	1.00
Project involves the use of reclaimed water	1.00
Project addresses a specific goal in an energy assessment, audit, or optimization study conducted within the past three years	1.00
Project is consistent with a municipal and/or state watershed protection plan, water efficiency plan, integrated water resource management plan, a regional facility plan, regionalization or consolidation plan, or an approved Total Maximum Daily Load implementation plan	2.00

Disadvantaged Eligibility

Awarded to any entity that qualifies as a disadvantaged community (see Appendix D for eligibility criteria)	10.00

Tie Breaker

Equal combined rating factors will be ranked in descending order with priority given to least population first.

Source Water Protection Rating Criteria and Process

This program provides financial assistance to assist communities in implementing source water protection Best Management Practices recommended by TCEQ. The TWDB will determine annually the amount of capitalization grant funds to be reserved for source water protection projects and will include this information in the intended use plan, provided however that no more than 10% of any DWSRF capitalization grant can be so reserved. All projects classified as source water protection projects are subject to the requirements established in 31 Texas Administrative Code §371.4 (relating to Other Authorized Activities: Source Water Protection and Technical Assistance) and those set forth in this intended use plan. If funds which have been reserved for source water protection projects are unused after all applicants have been provided an opportunity to submit an application, such funds may be made available for other projects in the DWSRF program.

Rating Process – To be eligible for consideration, PWS must be willing to participate in TCEQ's Source Water Assessment and Protection program. Eligible entities that seek consideration for source water protection funding will be rated according to the following criteria:

a. Groundwater System Vulnerability Factor
   (1) Groundwater systems without the necessary water well geologic protection will receive 4 points.
   (2) Groundwater systems with documented Nitrate concentrations of greater than two milligrams/liter will receive 1 point.
   (3) Groundwater systems obtaining water from selected vulnerable aquifers will receive 1 point.
   (4) Groundwater systems with confirmed detections of organic chemical contamination identified in Table 1 will receive 2 points.
   (5) No groundwater system may receive more than 6 system vulnerability points. Groundwater systems that receive no system vulnerability points will not be considered for source water protection funding.

b. Surface Water System Vulnerability Factor
   (1) Surface water systems with contributing watersheds of 20 square miles or less as determined by TCEQ will receive 3 points.
   (2) Surface water systems with confirmed detections of organic chemical

Table 1.

Organic Chemical Contaminants	
2,4,5-TP	Endrin
2,4-D	Epichlorohydrin
Acrylamide	Ethylbenzene
Alachlor	Glyphosate
Aldicarb	Heptachlor
Aldicarb sulfone	Heptachlor epoxide
Aldicarb sulfoxide	Hexachlorobenzene
Atrazine	Hexachlorocyclopentadiene
Benzene	Lindane
Carbofuran	Methoxychlor
Carbon tetrachloride	Monochlorobenzene
Chlordane	Oxamyl (vydate)
Cyanide	PAHs[Benzo(a)pyrene]
DBCP	PCBs
Dalapon	Pentachlorophenol
Di(ethylhexyl)adipate	Picloram
Di(ethylhexyl)phthalate	Simazine
Dichlorobenzene ortho-	Styrene
Dichlorobenzene para-	TCDD-2,3,7,8 (Dioxin)
Dichloroethane 1,2-	Tetrachloroethylene
Dichloroethylene 1,1-	Toluene
Dichloroethylene cis-1,2-	Toxaphene
Dichloroethylene tran-1,2	Trichlorobenzene 1,2,4-
Dichloromethane	Trichloroethane 1,1,1-
Dichloropropane 1,2-	Trichloroethane 1,1,2-
Dinoseb	Trichloroethylene
Diquat	Vinyl chloride
EDB	Xylene
Endothall	

contamination identified in Table 1 will receive 3 points.

(3) No surface water system may receive more than 6 system vulnerability points. Surface water systems that receive no system vulnerability points will not be considered for source water protection funding.

c. No combination ground and surface water system may receive more than 6 system vulnerability points.

d. Ability to Implement Best Management Practices Factor
   (1) Systems that receive system vulnerability points and that possess the ability and authority to implement land use controls including but not limited to zoning or ordinances, will receive 2 points.
   (2) Systems that receive system vulnerability points and that possess the ability to implement other non-land use controls such as public education, contingency planning, or conducting toxic/hazardous waste collection events will receive 1 point.
   (3) Systems that receive system vulnerability points and that propose to plug abandoned wells within the delineated source water protection area will receive 1 point.
   (4) Systems that receive system vulnerability points and that have confirmed siting or well construction problems listed on the most recent TCEQ sanitary survey will receive 1 point for proposals which will correct these problems.
   (5) Systems that receive no Ability to Implement Best Management Practices points will not be considered for source water protection funding.

e. The total points for Groundwater or Surface Water System Vulnerability and the Ability to Implement Best Management Practices will be summed and multiplied by 10 before adding Affordability Factor points.

f. Disadvantaged Community Eligibility Factor – Ten points awarded to any entity that qualifies as a disadvantaged community (see Appendix D for eligibility criteria)

g. The total source water protection rating score will be the sum of points generated from ground and surface water system vulnerability, ability to implement Best Management Practices and affordability factors.

Appendix D. Affordability Criteria to Determine Disadvantaged Community Eligibility

A disadvantaged community is a community that meets the DWSRF's affordability criteria based on income, unemployment rates, and population trends. An eligible disadvantaged community consists of all of the following:

1. The service area of an eligible applicant, the service area of a community that is located outside the entity's service area, or a portion within the entity's service area if the proposed project is providing new service to existing residents in unserved areas; and
2. meets the following affordability criteria:
   (a) Has an Annual Median Household Income (AMHI) that is no more than 75% of the state median household income using an acceptable source of socioeconomic data, and
   (b) the Household Cost Factor (HCF) that considers income, unemployment rates, and population trends must be greater than or equal to 1% if only water or sewer service is provided or greater than or equal to 2% if both water and sewer service are provided.

Acceptable Source of Socioeconomic Data for SFY 2017

For SFY 2017, the TWDB will utilize:

(1) U.S. Census 2010-2014 American Community Survey (ACS) 5-year estimates, along with the 2006-2010 ACS 5-year estimates for determining whether there was a decline in population, or

(2) Data from a survey approved by the Executive Administrator of a statistically acceptable sampling of customers in the service area completed in accordance with the most current Socioeconomic Surveys Guidelines (WRD-285) posted on the TWDB website. An entity must submit documentation that substantiates the inadequate or absent Census data that led to the need to conduct a survey. All entities must obtain prior approval to use survey data instead of the most recently available American Community Survey data.

Affordability Calculation and Disadvantaged Community Eligibility

Step 1. Comparison to State annual median household income.

The AMHI for the project service area (either entire or portion) must be 75% or less than the state's AMHI using an acceptable source of socioeconomic data for SFY 2017.

Step 2. Determining the Household Cost Factor

The total HCF is comprised of a household cost factor based on the AMHI, plus an additional household cost factor based on unemployment rates (if the unemployment rate for the service area is greater than the state average) plus an additional household cost factor based on population decline (if there has been a decline in the population of the service area over a period of time). The HCF used in the affordability criteria takes into consideration the potential burden that the cost of a proposed project will place on a household. The entity's total HCF,

which consists of the Income HCF (the percentage of annual household income that goes toward water, sewer, fees/surcharges, and project financing costs) combined with the Unemployment Rate HCF (not to exceed 0.75%) and the Population Decline HCF (not to exceed 0.5%), must be:

- 1.0% or greater if the entity currently offers either water or sewer service, or
- 2.0% or greater if the entity currently offers both water and sewer service.

The Unemployment Rate HCF and Population Decline HCF can only increase the total HCF, not decrease it.

Step 3. Principal Forgiveness Eligibility and Levels

The eligible level of principal forgiveness for a project is based on the difference between the calculated total HCF under Step 2 and the minimum HCF of 1% (if only water or sewer service is provided) and 2% (if both water and sewer services are provided) as shown in the chart below:

Household Cost Factor Difference	Principal Forgiveness as a % of estimated DWSRF-funded project costs
≥ 0% and < 1.5%	30%
≥ 1.5% and < 3%	50%
≥ 3%	70%

Individual projects will be reviewed for disadvantaged community eligibility as stand-alone projects. However, if an entity submits an application covering multiple PIFs or multiple applications for multiple PIFs within the SFY prior to any receiving a funding commitment, the disadvantaged community eligibility may be re-evaluated based on the combined costs of all the projects.

In instances where the ACS data does not adequately reflect an entity's service area (e.g. an entity serves a community outside of its Certificate of Convenience and Necessity, an entity serves another system, the entity is a system without a Census Bureau defined boundary, etc.), a prorated analysis of ACS block group data will be performed to calculate the AMHI. An example of this method follows:

			From Entity	Calculation	ACS 2010-2014	Calculation	ACS 2010-2014	Calculation	Calculation
County	Census Tract	Block Group	Total Number of Household Connections	% of TTL Connections	AMHI	Prorated AMHI	Average HH Size	Prorated Average HH Size	Entity's Population Served
Liberty	7006	1	1,105	66.65%	$18,004	$11,999	2.15	1.43	1,583
Liberty	7006	2	302	18.21%	$44,350	$8,078	2.45	0.45	135
Liberty	7006	3	251	15.14%	$46,688	$7,068	3.38	0.51	128
			1,658	100.00%		$27,145		2.39	1,847

County	Census Tract	Block Group	ACS 2010-2014 Unemployment Rate	Calculation Prorated Unemployment Rate	ACS 2010-2014 Prorata Population 2014	ACS 2006-2010 Prorata Population 2010	Calculation Prorata Pop. Change
Liberty	7006	1	23.5%	5.6%	668	991	-323
Liberty	7006	2	27.5%	8.3%	1,259	803	456
Liberty	7006	3	7.9%	3.6%	995	971	24
				17.5%	2,922	2,765	157

For entities that serve retail customers with differing rate structures, prorated rates are used, in some instances, to calculate each entity's household cost factor in SFY 2017. The following tables are an example of the method used. The TWDB will require use of prorated rates to determine an entity's water and/or sewer bills when applicable.

Prorated Average Monthly Water Bill

	A Number of Household Connections (HH)	B Percentage of Total HH	C Average Monthly Water Flow	D Average Household Size	E Average Mo. Water Flow / HH (CxD)	F First Tier	G Initial Rate	H Additional Use	I Additional Rate	J Other Changes	K Average Mo. Water Bill (((E-F)/H)xI)+G)	L Prorated Mo. Water Bill (BxK)
Entity A	1,823	33.95%	2,325	2.56	5,952	2,000	$ 14.45	1,000	$ 6.70	$ 2.00	$ 42.93	$ 14.58
Entity B	1,135	21.14%	2,325	2.47	5,743	3,000	$ 23.41	100	$ 0.57	$ -	$ 39.04	$ 8.25
Entity C	1,836	34.20%	2,325	2.78	6,464	3,000	$ 29.85	1,000	$ 6.81	$ -	$ 53.44	$ 18.27
Entity D	575	10.71%	2,325	2.53	5,882	1,500	$ 16.00	1,000	$ 4.00	$ -	$ 33.53	$ 3.59
Totals	**5,369**	**100.00%**							**Average Monthly Water Bill**			**$ 44.69**

Prorated Average Monthly Sewer Bill

	A Number of Household Connections (HH)	B Percentage of Total HH	C Average Monthly Water Flow	D Average Household Size	E Average Mo. Water Flow / HH (CxD)	F First Tier	G Initial Rate	H Additional Use	I Additional Rate	J Other Changes	K Average Mo. Water Bill (((E-F)/H)xI)+G)	L Prorated Mo. Water Bill (BxK)
Entity A	1,823	33.95%	1,279	2.56	3,274	3,000	$ 10.95	1,000	$ 2.25	$ 2.00	$ 13.57	$ 4.61
Entity B	1,135	21.14%	1,279	2.47	3,159	3,000	$ 17.00	100	$ 0.83	$ -	$ 18.32	$ 3.87
Entity C	1,836	34.20%	1,279	2.78	3,556	-	$ 20.79	1	$ -	$ -	$ 20.79	$ 7.11
Entity D	575	10.71%	1,279	2.53	3,236	1,500	$ 10.00	1,000	$ 2.00	$ -	$ 13.47	$ 1.44
Totals	**5,369**	**100.00%**							**Average Monthly Sewer Bill**			**$ 17.03**

If an entity is requesting disadvantaged community status for a portion of its service area, the combined household cost factor is calculated in the same manner as described above with the exception that the annual project financing cost per customer is calculated using the total household service connections in the full service area (not the portion).

If taxes, surcharges, or other fees are used to subsidize the water and/or sewer system, the average annual amount per household may be included in calculating the household cost factor or the combined household cost factor.

Systems owned and operated by a public school or school district will be evaluated for their annual median household income for their school district boundary. Since school districts typically do not have individual user costs, a household cost factor calculation cannot be performed. Therefore, districts with an AMHI less than or equal to 75% of the state's AMHI will automatically receive Disadvantaged Community status with the lowest available level of principal forgiveness.

If recent reliable data is unavailable for the school district to determine the AMHI, the TWDB will use information from the Texas Education Agency's Title I, Part A program to determine income eligibility. If more than 50% of the school districts campuses are eligible for the program, the district's AMHI will be assumed to be less than or equal to 75% of the State's AMHI.

Appendix E. Federal Requirements and Assurances

A. Federal Requirements

1. Davis-Bacon Wage Rate Requirements

A subrecipient must comply with the requirements of section 1450(e) of the Safe Drinking Water Act (42 U.S.C.300j-9(e)) in all procurement contracts and must require contractors to include compliance with section 1450(e) of the Safe Drinking Water Act in all subcontracts and other lower tiered transactions. All contracts and subcontracts for the construction project must contain in full in any contract in excess of $2,000 the wage rate requirements contract clauses prescribed by TWDB. Section 1450(e) requires compliance with 40 U.S. Code Sections 3141 to 3144, 3146, and 3147 covering wage rate requirements. TWDB guidance is available at http://www.twdb.texas.gov/financial/instructions/doc/DB-0156.pdf.

2. American Iron and Steel (AIS)

The TWDB and all DWSRF financial assistance recipients will comply with the American Iron and Steel (AIS) requirement in P.L. 114-53, Continuing Appropriations Act, 2016 (Act). The Act requires DWSRF assistance recipients to use iron and steel products that are produced in the United States for projects for the construction, alteration, maintenance, or repair of a public water system or treatment works.

The term ‘‘iron and steel products’’ means the following products made primarily of iron or steel:

- lined or unlined pipes and fittings
- manhole covers and other municipal castings
- hydrants
- tanks
- flanges, pipe clamps and restraints
- valves
- structural steel
- reinforced precast concrete
- construction materials

EPA may waive the AIS requirement under certain circumstances.

The following are exempt from the AIS requirements:

(a) Financial assistance agreements closed before January 17, 2014;

(b) Financial assistance agreements closed on January 17, 2014 through December 15, 2014 where the Plans and Specifications were submitted to the TWDB prior to or on January 17, 2014 and approved by TWDB between January 17, 2014 and April 15, 2014;

(c) Financial assistance agreements closed on or after December 16, 2014 and the Plans and Specifications were approved by TWDB prior to December 16, 2014.

Furthermore, if the original financial assistance agreement for the planning and/or design of a project closed prior to January 17, 2014, then the AIS provision would not apply to the construction phase of the same project. TWDB guidance is available at http://www.twdb.texas.gov/financial/instructions/doc/TWDB-1106.docx.

3. Compliance with Cross-cutting Authorities

There are a number of federal laws, executive orders, and federal policies that apply to projects and activities receiving federal financial assistance, regardless of whether the federal laws authorizing the assistance make them applicable. These federal authorities are referred to as cross-cutting authorities or cross-cutters. The cross-cutters apply to all projects and activities assisted with DWSRF funds.

The cross-cutters can be divided into three groups: environmental; social policies; and, economic and miscellaneous authorities.

- Environmental cross-cutters include federal laws and executive orders that relate to preservation of historical and archaeological sites, endangered species, wetlands, agricultural land, etc. This cross-cutter requirement includes a National Environmental Policy Act (NEPA) compliant environmental review. When conducting the NEPA-like review the TWDB will inform EPA when consultation or coordination by EPA with other federal agencies is necessary to resolve issues regarding compliance with applicable federal authorities.
- Social policy cross-cutters include requirements such as minority and women's business enterprise participation goals, equal opportunity employment goals, and nondiscrimination laws. This cross-cutter requirement includes compliance with the EPA's Disadvantaged Business Enterprise program administered by TWDB.
- Economic cross-cutters directly regulate the expenditure of federal funds such as the prohibition against entering into contracts with debarred or suspended firms.

4. Financial, Managerial, and Technical (FMT) Capacity

Prior to receiving or closing a commitment, the TCEQ will conduct a review of each applicant's FMT capacity. All applicants must receive FMT approval before closing on financial assistance funding.

5. Additional Subsidization

In accordance with the Consolidated Appropriations Act of 2016 (Public Law 114-113), the TWDB is required to provide 20 percent of the capitalization grant, which equals $12,020,800, in Additional Subsidization. The TWDB has allocated Additional Subsidization for SFY 2017 as follows:

Funding Option	Additional Subsidy Allocation
Disadvantaged Community	$10,000,000
Subsidized Green	$1,000,000
Very Small Systems	$3,000,000
Urgent Need	$2,000,000
Total	**$16,000,000**

6. Green Project Reserve

The capitalization grant for FFY 2016 states that at the discretion of each State, the capitalization grant may be used for projects to address green infrastructure, water or energy efficiency improvements, or other environmentally innovative activities. The TWDB is establishing a goal to allocate an equivalent of 10% of the capitalization grant to approved green project costs. The discretionary allocation is known as the Green Project Reserve (GPR).

To encourage green infrastructure projects, a portion of the additional subsidy will be made available for projects that include green infrastructure. In order to be eligible to receive green subsidy, projects must have approved green project elements with costs that exceed 30% of the total project costs.

Green components include green infrastructure, water or energy efficiency improvements, or other environmentally innovative activities. Eligibility for all green projects will be determined by the TWDB.

Projects which do not meet criteria of categorically green are required to produce a business case document. A business case demonstrates that proposed green component benefits have been thoroughly researched and documented. The TWDB utilizes the green project information worksheet (TWDB-0163) as a standard template for business cases. Information on the TWDB's GPR initiative and recently closed business cases, visit http://www.twdb.texas.gov/financial/programs/green/.

Appendix L, "Initial Invited Green Projects", lists invited green projects with project descriptions that detail the green category associated with the project, whether the project is categorically eligible or may require a business case, and how much of the project's total cost is applicable to the GPR.

TWDB information on green project eligibility may be found online at http://www.twdb.texas.gov/financial/instructions/doc/TWDB-0163.docm.

7. Competency Statements

The following competency statements are provided to satisfy the EPA's policy entitled "Policy to Assure Competency of Organizations Generating Environmental Measurement Data under Agency Funded Assistance Agreements."

A. TWDB Competency Statement

TWDB ascertains that competency can be demonstrated by the following:

1. The “TWDB Quality Management Plan,” approved by EPA Region 6 on July 15, 2016, which demonstrates competency by providing a description of the quality policies including all requirements described in EPA QA/R-2.

B. TCEQ Competency Statement

TCEQ ascertains that competency can be demonstrated by the following:

1. EPA approval of the "Quality Assurance Project Plan for the Public Water Supply Supervision Program Relating to the Safe Drinking Water Act of the Texas Commission on Environmental Quality", Revision 11.2 (QTRAK #16-006), received on November 4, 2013 which is approved through November 4, 2016. The most recent revision was approved by EPA on January 15, 2016.
2. The "TCEQ Quality Management Plan, Revision 21 (2016)" (QTRAK# 16-043) approved on December 16, 2015 by EPA Region 6 which demonstrates competency by providing a description of the quality policies including all requirements described in EPA QA/R-2.

8. Compliance with Capacity Development Authority, Capacity Development Strategy and Operator Certification Program

A. Capacity development authority. The State of Texas, through the TCEQ, has the legal authority to ensure that all new community water systems, and new nontransient, noncommunity water systems that commence operations have demonstrated FMT capacity with respect to national primary drinking water regulations. If DWSRF financial assistance is being provided to the new system, TCEQ conducts and provides to TWDB the results of its FMT assessment prior to closing on the financial assistance.

B. Capacity development strategy. The State of Texas, through the use of DWSRF set-asides provided to TCEQ, implements a strategy to assist public water systems in acquiring and maintaining financial, managerial, and technical capacity. The TWDB has set aside funds from the FFY 2016 grant for TCEQ to implement a capacity development strategy. TCEQ will use funds from the State Program Management, Small Systems Technical Assistance, and Local Assistance and Other State Programs set-asides to

conduct the capacity development activities. The TCEQ demonstrates compliance with the Capacity Development Strategy requirement of the SDWA by annually submitting the Capacity Development Report to EPA. The most recent report was provided to EPA on December 12, 2015.

C. Operator certification program. The State of Texas, through the TCEQ, has a program for certifying operators of community and nontransient, noncommunity public water systems. The TCEQ demonstrates compliance with the Operator Certification Program Provisions by annually submitting an Operator Certifications Program Report to EPA. The most recent report was provided to EPA on September 14, 2015.

9. Signage

DWSRF projects must comply with the EPA signage requirements implemented to enhance public awareness of the program. The entity may select from the following options to meet EPA's signage requirement:

- Standard signage
- Posters or wall signage in a public building or location
- Newspaper or periodical advertisement for project construction, groundbreaking ceremony, or operation of the new or improved facility
- Online signage placed on community website or social media outlet
- Press release

According to EPA's policy, to increase public awareness of projects serving communities where English is not the predominant language, entities are encouraged to translate the language used (excluding the EPA logo or seal) into the appropriate non-English language. TWDB guidance is available at http://www.twdb.texas.gov/financial/instructions/doc/TWDB-1109.pdf.

10. Reserves Established from Available Funds

The following reserved amounts may be applied to the funding options.

Funding Reserves

Reserve	Amount
Green Projects (10% of capitalization grant)	$6,010,400
Small Communities (15% of available funds)	$37,500,000
Extended Terms (75% of available funds)	$187,500,000

B. Assurances

Entry into the Federal Reporting Systems

The TWDB will enter information into EPA's DWSRF Projects and Benefits Reporting System, the DWSRF National Information Management System, and the Federal Funding Accountability and Transparency Act Sub-Award Reporting System as required.

Appendix F. Bypass Procedures

The Executive Administrator may decide to bypass, or skip, higher ranked projects in favor of lower ranked projects to ensure that funds available are utilized in a timely manner and that statutory and capitalization grant requirements are met. If an entity is offered funding for any project that has an interrelated project ranked lower on the list, the TWDB Executive Administrator will have discretion to also offer funding for the interrelated project.

Reasons for bypassing projects are listed below, but are not limited to:

1. **Projects Previously Funded**

   To fund the construction phase of a project that previously received funding for planning, acquisition and/or design.

2. **Disadvantaged Community**

   In the event that there are not enough projects with completed applications eligible to receive Disadvantaged Community funding, the Executive Administrator may bypass other projects to invite additional projects that are eligible for additional subsidization.

3. **Green Project Reserve**

   In the event that there are not enough projects with completed applications eligible to meet the Green Project Reserve goal, the Executive Administrator may bypass other projects to invite additional projects that are eligible for review of their green components and possible funding.

4. **Very Small Systems**

   In the event that there are not enough projects with completed applications eligible to receive Very Small Systems funding, the Executive Administrator may bypass other projects to invite additional projects that are eligible for Additional Subsidization.

5. **Urgent Need**

   The Executive Administrator may bypass projects to provide Urgent Need funding to replace or rehabilitate essential public water facilities that pose an imminent peril to the public health, safety, environment, or welfare with a threat of failure in response to an urgent condition. Projects will be rated by the TCEQ and added to the PPL as an Urgent Need project.

6. Small Communities

A minimum of 15% of the capitalization grant will be made available to systems serving populations less than 10,000. In the event that small community projects with completed applications do not equal 15% of the capitalization grant, the Executive Administrator may bypass other projects to include additional small community projects.

7. Readiness to Proceed

The Executive Administrator may bypass projects to include those deemed ready to proceed to construction.

8. Past Project Performance

If the applicant has failed to close a commitment or complete a project in a timely manner under a prior IUP, and it is determined that such failure to perform could jeopardize the timely use of funds for a project under this IUP, the Executive Administrator may bypass the project.

9. Financial Capacity

A project may be bypassed if the Executive Administrator determines that the applicant will be unable to repay the SRF financial assistance for the project.

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Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
64	14	11881	114th Street Mobile Home Park	P	TX1520067	123	Installation of filter system for Arsenic and Fluoride removal.	PDC	$200,000.00				
22	70	11991	Agua SUD	D	TX1080022	60,480	The proposed project includes a 4.5 mgd conventional water treatment plant with a water reservoir, upgrade of distribution lines, 1.5 mgd elevated storage tank and upgrade to the irrigation district water pumping system from 1.5 mgf to 6 mgd.	PADC	$40,150,000.00	50%			
112	3	11880	Alice	M	TX1250001	21,248	The first phase of this project is to replace at lease the 8-mile portion where the breaks have occurred.	PD	$776,250.00		Yes-BC	$698,625.00	
17	76	11879	Anthony	M	TX0710001	3,500	It is imperative that the town construct a new potable drinking water well to keep up with town demands, rehabilitate existing wells, install a new 250,000 gallon elevated water tank to meet both pressure and storage criteria, build an arsenic treatment plant to avoid additional TCEQ violations, and address system deficiencies such as leaking water lines, install a chlorination control system, and replace failing booster stations to avoid more serious problems.	C	$7,449,947.00	50%	Yes-BC	$1,114,500.00	
81	12	11992	Aurora	M	TX2490082	509	In order for the City of Aurora to have their own independent water system, they propose to drill a new 80 GPM well in the Trinity Aquifer, construct a 50,000 gallon elevated storage tank, 12-in. raw water line, treatment unit, 12-in. transmission line and telemetry. The City also plans to develop an asset management plan for this new groundwater system.	PDC	$1,050,000.00				
35	54	11993	Axtell WSC	W	TX1550016	1,574	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Axtell WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner o Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Axtell WSC's average day demands; Axtells WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,460,000.00		Yes-BC	$69,200.00	

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Public Water System													
5	138	11994	Ballinger	M	TX2000001	6,051	Construct a new raw water supply line from Lake Fort Phantom to the City of Ballinger WTP.	PADC	$30,000,000.00	70%			
26	66	11960	Barton WSC	W	TX0720013	697	The WSC has experienced disinfection residuals less than the required minimum of 2 mg/L. The proposed project will consist of adding chloramines disinfection systems at all pump station sites and adding and/or replacing sections of water lines for a system loop to improve disinfection residuals and to address low pressure areas.	PADC	$1,500,000.00		Yes-BC	$1,500,000.00	
83	11	11962	Beaver Creek WCID # 1	D		872	The existing privately owned water wells within the Beaver Creek WCID#1 (District) service area have been deemed a health nuisance by the Department of State Health Services. After completion of the EDAP Planning Program, the District proposes to construct a first time service water system in an effort to provide a source of safe drinking water to its residents.	C	$6,486,462.00	70%			
38	50	11995	Birome WSC	W	TX1090017	1,556	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Birome WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Birome WSC's average day demands; Birome WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$1,780,000.00		Yes-BC	$1,780,000.00	
128	1	11959	Blooming Grove	M	TX1750001	833	Construct a new water supply well and ground storage tank and create and implement an Asset Management Plan	PDC	$1,315,000.00				
113	3	12057	Bluegrove WSC	W	TX0390014	75	Bluegrove WSC will replace its 4" main water line through town, replace antiquated meters, updated aging portions of the system. Bluegrove WSC will also purchase the land for its well field.	PADC	$280,000.00				
114	3	11878	Bluegrove WSC	W	TX0390014	75	Bluegrove WSC will replace its 4" main water line through town as well as all necessary connections, valves and meter reconnections.	DC	$200,000.00				

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Public Water System													
56	20	12042	Bracken Christian School of Bulverde	P	TX0460201	500	Convert PWS 460201 to a customer of CCN 10692.	C	$59,000.00				
2	279	11958	Brady	M	TX1540001	6,059	The City of Brady (City) is addressing the need to improve its water system as a result of violations noted by the Texas Commission on Environmental Quality (TCEQ) and the United States Environmental Protection Agency (EPA).	C	$23,434,000.00	50%			
27	66	11877	Bronte	M	TX0410001	3,320	4 new wells, WTP expansion, and a new treated water line to Robert Lee.	PADC	$7,823,961.00	30%	Yes-BC	$575,000.00	
44	42	11957	Brookesmith SUD	D	TX0250004	8,750	Purchase and install 3,045 radio read meters.	PDC	$975,000.00		Yes-BC	$975,000.00	
127	1	11956	Brookesmith SUD	D	TX0250004	12,697	Replace old water lines.	PDC	$2,531,000.00		Yes-BC	$2,531,000.00	
90	10	11963	Buckholts	M	TX1660007	515	Water Meter Replacement	DC	$196,000.00	70%	Yes-BC	$119,000.00	
99	6	11996	Buena Vista WS	P	TX0270008	315	Corix proposes an area-wide replacement of existing meters with an automatic meter reading system (AMR). Corix also proposed constructing a 10-inch pipeline to interconnect the system to the Corix Lake Buchanan Water System to address Buena Vista Water System's numerous TCEQ violations. Corix also plans to develop an asset management plan for this water system.	ADC	$770,000.00		Yes-BC	$50,000.00	
54	21	11955	Carbon	M	TX0670015	272	Pump Station Improvements to increase the storage and pumping capacities to meet compliance.	PDC	$425,000.00	70%	Yes-BC	$425,000.00	
139	0	12028	Chandler	M	TX1070006	2,783	New Ground Storage, high service pump station, Hydropneumatic tank, and disinfection system to serve new water well. Rehabilitation of Existing Water Well, Ground Storage Tank, and High Service Pump Station at existing well at Sportsman's Paradise.	PDC	$750,000.00				
61	15	11997	Clarksville	M	TX1940002	3,179	To address the future loss of water supply, Clarksville will study supply options consisting of a new reservoir, connection to adjacent systems and drilling additional wells. Clarksville also has excessive loss rates and requires a water loss study.	P	$125,000.00	50%	Yes-BC	$50,000.00	
7	104	11998	Coke County WSC	W	TX0410017	523	Develop new well field for water supply. Install supply line from new well field to existing system.	PADC	$3,500,000.00				
132	0	11999	Comanche County WSC	W	TX0740027	120	Installation of an AMR metering system.	PDC	$325,000.00		Yes-BC	$325,000.00	
92	10	11964	Combes	M	TX0310021	2,553	Storage Tank rehabilitation project, Waterline extension and water meter replacements.	DC	$502,000.00	50%			

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Public Water System													
14	78	12000	Commodore Cove ID	D	TX0200033	350	A reverse osmosis system will allow CCID to lower the TTHMs levels to comply with TCEQ standards. This will also lower the TDS levels, which CCID is borderline on at this time.	ADC	$190,000.00				
129	1	11875	Cottonwood Shores	M	TX0270013	1,123	Replace existing aged .5 MGD water treatment plant with .5 MGD new water treatment plant equipment. High service pumps. Upgrade raw water pumps and automatic controls at quarry site.	PDC	$3,817,000.00		Yes-BC	$70,000.00	
71	13	11965	Covington	M	TX1090021	233	The City of Covington's ground storage tank (GST) is in poor condition, showing signs of leaking, and the tank foundation is eroding away. Replacement of the tank is vital to maintain system operation. As an emergency response, the City is constructing a temporary ground storage tank to serve as a stopgap until funding is available to construct a permanent replacement for the GST. In addition, the existing service pumps, electrical/controls, and piping at the service pump station are aging and have become unreliable. The City is pursuing implementation of the GST replacement and service pump station rehabilitation in order to maintain adequate service for the community.	PDC	$825,500.00	50%	Yes-BC	$70,000.00	
68	13	11954	Cranfills Gap	M	TX0180013	243	City proposes to replace broken or malfunctioning water meters within their CCN	PDC	$220,550.00	50%	Yes-BC	$130,500.00	
96	10	11874	Crockett	M	TX1130001	6,950	New high service pump station, ground storage tank and elevated tank.	PADC	$2,800,000.00	70%			
91	10	11873	Cross Plains	M	TX0300003	982	The City of Cross Plains proposes to replace undersized lines and loop dead end areas in their system.	PDC	$1,200,000.00	30%			
122	3	11953	D & M WSC	W	TX1740010	4,740	Correct insufficient water production, insufficient water storage capacity, insufficient pump and pressure vessel capacity, and lack of asset management plan.	PDC	$1,210,435.00		Yes-BC	$125,000.00	
123	3	11966	D & M WSC	W	TX1740010	4,740	Insufficient water production and lack of an Asset Management Plan.	PDC	$1,490,000.00				
150	0	12001	Dallas	M	TX0570004	2,493,030	DWU's water main replacement program for rehabilitation or replacement of approximately 40 miles of small diameter water mains annually. The goal has been established in an effort to reduce main breaks throughout the system; thereby reducing maintenance costs, water losses and impacts to the public.	DC	$220,000,000.00				

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Public Water System													
55	20	12002	Dario V. Guerra, III, dba Derby Ing.	W	TX0820016	113	Construct a new well at a suitable location to replace the existing water well and also to build redundancy in the system.	PADC	$200,000.00				
86	10	12003	Domino	M	TX0340041	79	To address the system deficiencies, the water tower will be repaired/painted and the southern loop to the water system will be added. In some areas the city has a new water line on one side of the road and an old line on the other. All houses will be placed on the newer lines.	DC	$483,000.00				
59	16	11872	Donna	M	TX1080002	18,300	Rehabilitation of existing water treatment plant and construction of an adjacent raw water reservoir. Existing plant has deteriorated and is in dire need of rehabilitation and to make repairs due to damages sustain in recent Hurricane. A new water reservoir is needed to store water in emergencies due to the unreliability of and inability of the local irrigation district to deliver raw water during power outages or emergency construction of the water canal system. A raw water reservoir will allow pretreatment and settlement of the raw water and a reduction of the amount of chemical need for water disinfection. The addition of an inordinate amount of chemicals needed for water settlement is making the water at the plant very corrosive and the corrosive water is deteriorating the metal components of the plant treatment equipment.	PADC	$8,625,000.00	50%			
20	70	11952	Dublin	M	TX0720001	4,207	Proposed project will replace water lines, add radio read water meters, and provide a new supply well.	PADC	$5,420,000.00		Yes-BC	$1,626,000.00	
70	13	11951	Eagle Pass Water Works System	M	TX1620001	52,624	Expand WTP capacity, resize distribution lines and rehab storage tanks.	DC	$52,593,351.00	30%			
65	14	11950	Eastland	M	TX0670002	3,919	The proposed project will include the installation of new water lines to eliminate leaks and reduce water loss.	PDC	$1,070,000.00	30%	Yes-BC	$1,070,000.00	
9	96	11967	Eden	M	TX0480001	2,766	There are several aspects of the City of Eden's (City) water supply system that are in need of improvement. These improvements include increasing the ability of the City's Cooling Tower to lower groundwater temperatures, reducing scale formation in the new WTP and existing water distribution piping and sedimentation present in the water supply, protection of above ground well equipment against weather elements and the removal of total dissolved solids (TDS) and chlorine as well as meeting secondary drinking water standards (SDWS).	PDC	$9,115,000.00		Yes-BC	$9,115,000.00	

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Public Water System													
147	0	12055	Edinburg	M	TX1080004	77,100	Expansion of the West WTP from 8.0MGD to 16MGD, an expansion of 8.0MGD, will provide a total treatment capacity of 25.99MGD with a required treatment capacity of 17.64MGD. The production capacity will be at 67.8%. The expansion will also include a 2.0MGD clearwell/ground storage tank.	PDC	$5,279,965.00				
80	12	12006	El Paso PSB	M	TX0710002	823,862	El Paso Water Utility proposed to construct a potable water system for the homes of the residents of the "Four Streets" section of the Canutillo Colonia, to bring fresh water that meets health standards. This Canutillo area's current "systems" are all privately owned. Testing has determined that there are cases of contamination of the local well water from area wastewater systems.	C	$885,369.00	30%			
125	1	12007	Eldorado	M	TX2070001	1,925	Replace existing meters with an AMR metering system.	PDC	$775,000.00		Yes-BC	$775,000.00	
131	1	11969	Ennis	M	TX0700001	19,331	Water line replacements in downtown Ennis and create and implement an Asset Management Plan.	PDC	$4,318,960.00		Yes-BC	$4,318,960.00	
146	0	11968	Ennis	M	TX0700001	19,331	Failing waterlines with insufficient valving. Frequent breakage causes loss of service, risk of system contamination, and significant water loss.	PDC	$7,248,280.00				
30	64	12004	EOL WSC	W	TX1550025	1,635	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve EOL WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet EOL WSC's average day demands; EOL WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,880,000.00		Yes-BC	$3,880,000.00	
75	13	11949	Etoile WSC	W	TX1740011	1,974	Well #4, Aerator, Filters, Storage Tanks, Booster Pumps, Water Main, & Related Work to treat organics and reduce TTHM formation, and therefore reduce amount of water currently wasted flush distribution lines.	PADC	$3,136,805.00				

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Public Water System													
62	15	11948	Evant	M	TX0500015	465	Water service to customers is always an important subject in a city's utility needs. TCEQ has set standards for minimum water line pipe sizes and the number of service connections that can be run from these lines. Aging infrastructure is also a factor when looking at water lines and can make them vulnerable to leaks and failures. The City of Evant is pursuing the implementation of upsized water lines to ensure all TCEQ regulations are met and to better serve customers that are connected to these water lines.	PDC	$200,000.00	50%	Yes-BC	$200,000.00	
115	3	11947	Forsan	M	TX1140011	232	In order to restore the aging infrastructure to its proper function, the City is requesting funding to help replace the City's sole elevated storage tank (EST).	PDC	$752,000.00				
25	68	11946	Fort Griffin SUD	D	TX2090005	2,740	Utilize the SUD's existing raw water allotment from the BRA construct a treatment plant and water lines for that purpose.	PADC	$3,657,500.00		Yes-BC	$500,000.00	
111	4	12008	Gholson WSC	W	TX1550028	3,033	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Gholson WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Gholson WSC's average day demands; Gholson WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$5,040,000.00		Yes-BC	$5,040,000.00	
48	31	11970	Gladewater	M	TX0920001	7,812	Rehabilitate the existing raw water intake structure. Rehabilitate two existing elevated storage tanks. Prepare and implement an Asset Management Plan.	PDC	$1,412,302.00				
45	36	11945	Gordon	M	TX1820007	744	Installing a new microfilter at the existing water treatment plant, and replacing old and deteriorated water lines throughout the City which have caused numerous water leaks. The water treatment plant has exceeded 85% of production capacity and is required by TCEQ to add more production capacity, and significant water loss is due to deteriorated and leaking raw water lines and treated distribution water lines.	PDC	$1,196,000.00	30%	Yes-BC	$1,196,000.00	

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Public Water System													
4	141	11871	Gorman	M	TX0670003	1,950	The City of Gorman is proposing to eliminate the old cast iron water line and replace it with PVC water lines. The City is also proposing to replace all of its service meters with new electronic read meters.	PDC	$2,100,045.00	50%	Yes-BC	$2,100,000.00	
134	0	11944	Graford	M	TX1820003	830	Replace existing water lines.	PADC	$430,000.00		Yes-BC	$430,000.00	
136	0	11870	Greater Texoma UA	D	TX0490016	1,906	Replace asbestos cement pipe with polyethylene pipe (2.2 miles).	PDC	$11,418,091.00				
32	63	11868	Groveton	M	TX2280001	1,057	Construct water well and transmission main to supplement current TRA water supply which is seasonally inadequate for current demand, specifically during drought conditions.	PADC	$2,195,000.00	70%			
36	53	11971	Guadalupe Blanco RA	D	TX0290005	22,470	Added chlorination point and mixing additions.	DC	$242,330.00				
53	22	11972	Guadalupe Blanco RA	D	TX0460239	100,000	Aeration and granulated activated carbon (GAC) DPB control.	DC	$11,934,585.00				
76	12	11943	Gustine	M	TX0470003	496	The proposed project consists of constructing a new elevated storage tank.	PDC	$550,000.00	30%	Yes-BC	$270,000.00	
101	6	12009	H & H WSC	W	TX1550029	1,504	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve H&H WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet H&H WSC's average day demands; H&H WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,460,000.00		Yes-BC	$3,460,000.00	
126	1	11942	Harris Co FWSD # 47	D	TX1010260	2,434	Replace old waterline with Class 150 c-900 PVC, installation of new AMR to help identify leaks.	PDC	$5,581,670.00		Yes-BC	$5,581,670.00	
130	1	12010	Harris Co MUD # 167	D	TX1012842	15,000	Installation of "smart" water meters to meet the district goals of water efficiency goals. This would include the preparation of an asset management plan.	C	$2,000,000.00		Yes-BC	$2,000,000.00	
121	3	12011	Haskell	M	TX1040001	3,235	Replace existing water meters with an automatic meter reading (AMR) system.	PDC	$900,000.00		Yes-BC	$900,000.00	

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Public Water System													
143	0	11975	Hutto	M	TX2460007	14,728	Replace approximately 2,700 linear feet of aging waterlines made of substandard materials along Live Oak Street.	PADC	$965,233.00				
144	0	11973	Hutto	M	TX2460007	14,728	Installation of an 8" waterline along 7,500 ft on Front Street.	DC	$782,000.00				
145	0	11974	Hutto	M	TX2460007	14,728	Install three drinking water lines to service communities and school with current low flow.	PADC	$4,651,522.00				
74	13	11867	Joaquin	M	TX2100010	824	The proposed project seeks to replace borken/malfunctioning/unreliable water meters with AMR meters and also, identify (via water leak detection survey) and replace aged water mains that continue to cause excessive water loss.	PDC	$2,745,000.00	70%	Yes-BC	$2,745,000.00	
85	11	11941	Kellyville-Berea WSC	W	TX1580003	1,116	Construct a new public water supply well and create and implement an Asset Management Plan.	C	$577,500.00	30%			
24	69	11976	La Feria	M	TX0310003	7,301	City of La Feria water treatment process improvements for water quality, electrical power efficiencies, and improved circulation.	PDC	$3,147,160.85	30%	Yes-BC	$503,150.00	
6	111	11940	Lawn	M	TX2210005	666	Abandon WTP and construct new treated water supply from a wholesale supplier. New water supply with less TOC, more stable water and less precursors for DBPs. Abandon WTP and construct new treated water supply. Abandon WTP and construct new treated water supply and build taller standpipe in Lawn. Abandon WTP and replace old and deteriorated water lines. Abandon WTP and construct new treated water supply with less TOC, more stable water, and less precursors for DBPs.	PADC	$3,600,000.00	70%			
29	64	12013	Leroy-Tours-Gerald WSC	W	TX1550027	1,396	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve LTG WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet LTG WSC's average day demands; LTG WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$2,200,000.00		Yes-BC	$2,200,000.00	

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Public Water System													
140	0	11938	Liberty	M	TX1460003	8,397	Rehabilitate well site including the replacement or rehabilitation of well and distribution pumps, well casing/screening and ground storage tank.	C	$2,866,250.00				
141	0	11939	Liberty	M	TX1460003	8,397	Construct a 150,000 gallon elevated tank in the vicinity of the low pressure to offset the losses due to higher elevations in this area.	C	$1,430,000.00				
142	0	12056	Liberty	M	TX1460003	8,397	Extend or enlarge existing waterlines to provide service to additional areas within the city limits and install booster pump stations to improve pressure between water planes.	C	$6,311,500.00				
12	83	11866	Loop WSC	W	TX0830011	300	Proposed Water Treatment Plant	C	$200,000.00				
88	10	12012	Loving WSC	W	TX2520006	200	Replace existing 2-inch and 1-inch pipelines with PVC piping. Replace one existing ground storage tank with new tank that matched height of remaining tank. Adjust height of 2nd hydrotank to match original tank.	PDC	$706,000.00	50%			
11	83	12014	Lueders	M	TX1270007	342	The proposed project includes 3,000 l.f. of waterline to serve five new customers, a new disinfection and tank mixing system, and an automatic meter reading system.	PDC	$499,500.00	70%	Yes-BC	$80,000.00	
57	17	11865	Lyford	M	TX2450003	2,611	Installation of two ground water wells at the water treatment plant for a new water supply source, with construction of a 1.0 MGD reverse osmosis RO membrane treatment facility to treat the brackish ground water.	PADC	$4,590,000.00	50%			
41	48	12015	M S WSC	W	TX1550037	684	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve MS WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet MS WSC's average day demands; MS WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00		Yes-BC	$970,000.00	

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Public Water System													
135	0	11864	Magnolia	M	TX1700020	1,547	Construct new plant site to include new water well, ground storage tank, elevated storage tank, booster pump station, generator, and all related yard piping. Construct transmission line to tie new plant site into the system. Replace existing ground storage tank at Well No. 1 site.	PAD	$845,697.00				
98	10	11937	Marshall	M	TX1020002	32,433	Installation of new water mains, valves, and meters, upgrade of existing mains.	PDC	$3,095,000.00	30%	Yes-BC	$2,300,000.00	
15	78	11977	Mason	M	TX1600001	2,114	City of Mason water supplies have radium levels above MCL and require treatment. This project will provide needed improvements to remove radium from groundwater supply.	PDC	$845,000.00				
95	10	11863	Mathis	M	TX2050003	5,001	Replace undersized 2" waterlines with looped 8" water lines. The current system does not meet TCEQ Chapter 290 regulations for max. number of connections on a 2" water line and WTP improvements.	PDC	$3,189,704.00	30%			
108	6	11978	McAllen	M	TX1080006	140,000	The City of McAllen's South Water Treatment Plant utilizes two (2) treatment trains. The north Train is rated at 37 MGD. The south train is rated at 8 MGD. This project would expand capacity at the south treatment train by an additional 4 MGD. The project also includes the construction of an 18" - 24" Raw Water Supply Line.	C	$6,800,000.00				
8	103	11862	Melvin	M	TX1540003	179	The City of Melvin proposed to construct corrective treatment facilities for its existing water source using Water Remediation Technologies (WRT) Z-88 radium absorption process.	PDC	$740,000.00	30%			
87	10	12016	Melvin	M	TX1540003	178	The City will replace the pumps, and add necessary valves, meters and other fixtures, as well as the piping assembly in the pump station. The City will also replace distribution main throughout town.	PDC	$200,000.00	30%			

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Public Water System													
116	3	11979	Mertzon	M	TX1180002	778	In the midst of the current historic ongoing drought, the City's water supply is rapidly running out of time. The City now only has five (5) functional groundwater wells (of the original eight), caused by continual pumping during the ongoing drought. The City has observed a steady decrease in production from its wells over the past several years, to the point that three of the original eight wells are essentially "dry" at this time. In order to support current water supply needs, the City of Mertzon is pursuing implementation of two major project components, including construction of a new supply well and a treatment system to address the City's groundwater quality issues.	PDC	$2,364,000.00		Yes-BC	$2,364,000.00	
60	16	11861	Mexia	M	TX1470004	7,459	The City recently replaced approximately 50,000 l.f. of water mains and now seeks to replace broken/malfunctioning/unreliable water meters with AMR meters.	PDC	$1,880,000.00	70%	Yes-BC	$1,880,000.00	
117	3	11860	Midway ISD	D	TX0390020	981	Midway ISD will replace their water tank, renovated the main pump station and drill another well to increase water production. The main water lines will also be replaced as well as necessary connections, valves and service reconnections.	DC	$199,500.00				
1	528	11936	Millersview-Doole WSC	W	TX0480015	3,579	Treating well water at the source and blending with surface water.	PDC	$578,000.00				
40	49	12046	Moores Water System	P	TX1550127	246	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Moores Water System, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Moores Water System average day demands; Moores Water System existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00		Yes-BC	$970,000.00	

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Public Water System													
50	26	12017	Mount Calm	M	TX1090005	324	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Mount Calm, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Mount Calm's average day demands; Mount Calm's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00	50%	Yes-BC	$19,400.00	
72	13	11859	Mount Calm	M	TX1090005	320	Due to the fact the well needing repair is the only water source for the city; it has been proposed to construct a new well of equal depth and size to replace the existing city well. This will eliminate electrical issues and repair costs, and maintain well production during construction.	DC	$1,937,500.00	70%			
63	14	11935	New Deal	M	TX1520015	794	The project is to replace the deteriorated 6-inch Asbestos Cement line from the well field 3.3 miles northeast of the City with new 8-inch C-900 PVC or HDPE and to install a standpipe water storage tank in the southwest quadrant of the City. The new pipe will reduce the friction loss considerably compared to the existing line, as well as prevent leaks on the existing line. It will take approximately 18,000 linear feet of pipe to replace the deteriorated line. The standpipe will stabilize the water pressure in the southwest area of the City which is located on the west side of the interstate.	PDC	$1,206,000.00		Yes-BC	$692,000.00	
120	3	11858	North Runnels Co WSC	W	TX2000005	2,256	Replace meters with AMR system.	PDC	$500,000.00		Yes-BC	$500,000.00	
102	6	11852	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the replacement of aged and undersized PVC and asphaltic concrete pipe (ACP) in the east portion of the District's service area. Broken water lines in the service area caused disruption for customers and results in increased water loss. New PVC distribution lines will be designed and constructed to reduce water loss, improve water pressure and distribution throughout the service area.	PDC	$200,000.00				

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Public Water System													
103	6	11853	Nueces Co WCID # 5	D	TX1780010	810	The project consists of looping existing waterlines to eliminate dead ends. The district's water distribution system has many dead end lines that jeopardize the water quality for its residents. Looping these waterlines will create better water circulation and eliminate stagnant water in the lines. The project will also include the installation of new flush valves for waterlines that cannot be looped within the existing system.	PDC	$200,000.00				
104	6	11856	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the replacement of aged and undersized PVC and asphaltic concrete pipe (ACP) in the north portion of the District's service area. Broken water lines in the service area cause disruption for customers and results in increased water loss. New PVC distribution lines will be designed and constructed to reduce water loss, improve water pressure and distribution throughout the service area.	PDC	$200,000.00				
105	6	11857	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the installation of water meters in the service area, purchase of leak detection equipment and instrumentation, and preparation of an asset management plan. The leak detection equipment will assist the District during the asset management planning process and conditions assessment.	PDC	$200,000.00				
106	6	12133	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the replacement of aged and undersized PVC and asphaltic concrete pipe (ACP) in the south portion of the District's service area. Broken water lines in the service area cause disruption for customers and results in increased water loss. New PVC distribution lines will be designed and constructed to reduce water loss, improve water pressure and distribution throughout the service area.	PDC	$200,000.00				
107	6	11854	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the replacement of aged and undersized PVC and asphaltic concrete pipe (ACP) in the west portion of the District's service area. Broken water lines in the service area cause disruption for customers and results in increased water loss. New PVC distribution lines will be designed and constructed to reduce water loss, improve water pressure and distribution throughout the service area.	PDC	$200,000.00				

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Public Water System													
33	62	11900	Nueces County	C	TX1780050	170	Nueces County proposes to replace distribution lines throughout Cyndie Park II (served by CP2WSC) as well as construct additional new lines to connect Cyndie Park I and The Ranch (adjacent colonia) residents. Nueces County will then construct upgrades to an existing water system (Nueces Water Supply, approx 4+ miles away) and connect CP I, CPII, and The Ranch to the new system.	AC	$1,584,500.00	70%	Yes-BC	$50,000.00	
124	2	11899	Palo Pinto WSC	W	TX1820004	347	Replacing existing distribution lines which cause significant water loss and water outages.	PDC	$1,469,000.00		Yes-BC	$1,469,000.00	
89	10	11898	Parker County SUD	D	TX1840025	370	Material costs for 0.1 MG elevated storage tank to meet TCEQ storage requirements and reduce water loss.	PADC	$1,110,000.00		Yes-BC	$1,110,000.00	
18	73	12018	Prairie Hill WSC	W	TX1470011	1,794	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Prairie Hill WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Prairie Hill WSC's average day demands; Prairie Hill WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,040,000.00		Yes-BC	$3,040,000.00	
100	6	12019	Pure WSC	W	TX1550039	707	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Pure WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Pure WSC's average day demands; Pure WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00		Yes-BC	$970,000.00	

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Public Water System													
49	30	12020	R M S WSC	W	TX1550136	960	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve RMS WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet RMS WSC's average day demands; RMS WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,040,000.00		Yes-BC	$3,040,000.00	
133	0	11851	Ralston Acres WSC	W	TX1010196	350	Update system and move mains from private back yards to the public streets.	PADC	$1,490,000.00				
119	3	11980	Raywood WSC	W	TX1460006	1,455	Replace existing water meters with new automatic read meters.	PDC	$236,100.00		Yes-BC	$236,100.00	
10	83	11981	Rhome	M	TX2490007	1,598	This project will focus on improving the water treatment system for the City.	PDC	$850,000.00				
84	11	12021	River Oaks	M	TX2200069	7,437	The majority of the city's water lines were installed in the 1940's and the 1950's that consisted mostly of cast iron, galvanized iron and asbestos cement. The lines are old and deteriorating that causes leaks and poor water quality due to the rust and corrosion associated with cast iron and galvanized piping. The City's water plan was upgraded back in 1993 and is in need of emergency water plan project to rebuild the Clarifier.	C	$7,641,853.00		Yes-BC	$7,641,853.00	
34	56	11982	Rogers	M	TX0140004	974	The project will include replacement of existing water lines and installation of a new well, storage and pumping facilities.	PADC	$5,831,000.00		Yes-BC	$30,000.00	
19	72	11961	Rolling Hills WS	W	TX1110032	231	The Rolling Hills system is in disrepair and desperately in need of replacement of all of the major components.	PDC	$2,455,000.00	70%	Yes-BC	$1,227,000.00	
66	14	11897	Roma	M	TX2140007	18,903	The City is addressing the need for a new regional water treatment plant (WTP) to serve its residents and businesses and fully comply with all water treatment regulations.	PADC	$4,450,000.00	50%	Yes-BC	$4,450,000.00	

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Public Water System													
110	4	12022	Ross WSC	W	TX1550042	2,250	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Ross WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Ross WSC's average day demands; Ross WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$4,635,000.00		Yes-BC	$4,635,000.00	
47	33	11850	Rotan	M	TX0760002	2,763	Install 14 miles of new 12-inch PVC water line to replace existing and ground storage tank.	PDC	$3,880,000.00	30%	Yes-BC	$2,840,000.00	
137	0	11896	Royalwood MUD	D	TX1010201	1,982	Update and Modernize Existing Water Plants	PDC	$1,389,850.00		Yes-BC	$375,695.00	
46	36	11895	San Angelo	M	TX2260001	96,177	In order to support current and future water supply needs, the City of San Angelo is pursuing the implementation of a potable reuse project.	PDC	$150,000,000.00		Yes-BC	$150,000,000.00	
148	0	11894	San Antonio Water System	M	TX0150018	1,659,593	This project includes the replacement of electrical switchgear, replace the chlorine gas system with on-site sodium hypochlorite generation system, upgrade the fluoridation equipment, and replace valves and yard piping.	C	$14,668,080.00				
149	0	11983	San Antonio Water System	M	TX150018	1,659,593	Zarzamora and LaRosa Pump Station Upgrade.	C	$7,105,000.00				
21	70	12023	San Benito	M	TX0310007	24,506	Water Treatment Plant No. 1 Rehabilitation - New Pumps, Piping, Filter Media, Controls, Chemical Feed Systems, Ray Water Intakes and Lab Building. Water Treatment Plan No. 2 Retrofit - New Pretreatment Facilities, Membrane Filtration & Treatment Systems, Yard Piping and Related Sitework & Electrical improvements. New Generator for WTP No. 2.	ADC	$11,203,380.00	50%			
97	10	11849	San Juan	M	TX1080010	24,166	Rehabilitate and upgrade existing plant to current standards.	C	$6,975,000.00	30%			
28	65	11848	San Saba	M	TX2060001	4,221	New 6" and 8" water mains are proposed to replace the dilapidated lines.	C	$1,700,000.00	30%	Yes-BC	$1,700,000.00	
31	64	11984	Sansom Park	M	TX2200071	4,825	New tanks, pumps, wells, buildings, distribution, treatment	PADC	$6,712,426.00	50%			

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Appendix G. Project Priority List - Alphabetical

Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
93	10	11985	Santa Rosa	M	TX0310009	2,873	Replace water meters city wide.	DC	$322,500.00	50%			
138	0	11893	Santo SUD	D	TX1820010	2,024	Make an interconnect with Parker Co SUD to obtain treated water.	PADC	$778,000.00				
23	69	12054	Shallowater	M	TX1520003	2,484	Install GE Electrodialysis Reverse Osmosis (EDR) System.	DC	$1,800,000.00				
16	77	11892	Smyer	M	TX1100010	474	The City of Smyer has four water wells. The City's well water quality does not meet water quality requirements for arsenic (water currently exceeds the MCL for arsenic). A deteriorated 4 inch water line is used to supply the water from the groundwater storage tank to the south side of the City where it connects into the distribution system. The City's 100,000 gallon water storage tank's interior coating has failed. The City does not have a connection to the water supply equipment that would facilitate the quick connection of a generator to the equipment during a loss of power event.	PDC	$466,000.00		Yes-BC	$135,000.00	
73	13	11891	Study Butte WSC	W	TX0220035	482	Replace waterlines, install pressure reducing valves, install well servicing rig to reduce downtime, install chemical storage facilities and building upgrades.	PDC	$1,256,000.00	70%	Yes-BC	$1,256,000.00	
37	52	12024	Toyah	M	TX1950004	114	Convert from groundwater to well water. Urgent Need and small systems.	DC	$200,000.00	70%			
43	43	11890	Troy	M	TX0140037	1,505	Construct a new water supply municipal well system. The project will also include the construction of the associated ground storage tanks, water pump station and water main installation as required to connect to the existing distribution system. This project also includes the preparation of an Asset Management Plan.	PADC	$2,135,000.00		Yes-BC	$250,000.00	
58	16	11889	Union WSC	W	TX2140004	4,457	Replacement and upgrades to existing water main distribution lines to address water and pressures losses. Installation of new main distribution lines and vales to improve water distribution efficiency and reduce water pressure deficiencies. Connection of existing residential and commercial water services to new water main distribution lines. Construction of a 250,000 gallons storage elevated tank. Expansion of the existing water treatment plant from 1.5 MGD to 3.0 MGD.	PADC	$5,610,915.00	30%	Yes-BC	$650,000.00	
118	3	11986	Valley Mills	M	TX0180003	1,207	In order to restore the aging infrastructure to its proper function, the City is requesting funding to help address the aging and inefficient distribution system.	PDC	$3,677,000.00		Yes-BC	$3,677,000.00	
52	24	11847	Vernon	M	TX2440001	10,874	Install a new 16 mile 24 inch PVC pipeline.	PADC	$11,000,000.00	50%	Yes-BC	$11,000,000.00	

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Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
39	49	11888	Vinton	M	TX0710151	2,519	The proposed project will consist of the installation of new high capacity water lines. These new lines will be able to maintain minimum pressure and fire flow. A service fee from EPWU will be needed to allow EPWU to provide adequate water storage for Vinton.	PADC	$17,161,800.00	30%			
67	14	12025	Waco	M	TX1550008	127,796	This project will implement advanced metering infrastructure and acoustic leak detection to the retail and wholesale customers of the City of Waco	C	$15,000,000.00	30%	Yes-BC	$15,000,000.00	
109	5	11887	Warren WSC	W	TX2290006	1,746	New AMR water meters.	PDC	$271,500.00		Yes-BC	$271,500.00	
82	12	11886	West Tawakoni	M	TX1160012	1,683	Construct new Water Intake Structure into deeper water. Per PER, a depth of +/-25 feet can be obtained by constructing the Intake at the proposed location. Develop Asset Management Plan.	PADC	$1,489,022.00	50%			
3	147	11987	West Wise SUD	D	TX2490016	4,206	Given the condition of the District's existing WTP and ongoing challenges in meeting DBP-2 requirements, it is anticipated that the primary focus of this project will be to implement construction of a new WTP, which will need to be capable of meeting and exceeding treatment requirements under current LT-2 and DBP-2 criteria while also being capable of meeting anticipated further tightening of these requirements in the future.	PADC	$15,867,000.00		Yes-BC	$15,139,000.00	
69	13	12026	Wharton	M	TX2410005	8,768	The City of Wharton is developing a 50 year Water Supply. This includes development of a new well field just across the Colorado River. This project will construct a new municipal water well and storage tank on the City Airport property, and construct the pumping system and pipeline to connect the new water well with the City's existing water supply syustem. The City will develop an asset management plan to use as a resource in all City water/sewer projects and planning purposes.	PADC	$7,320,000.00	50%			
13	80	12058	Whitharral W & SSSC	W	TX1100011	395	Install treatment system to remove nitrate and fluoride to below drinking water MCLs.	DC	$300,000.00				
94	10	11884	Willow Park	M	TX1840027	4,410	Replace existing waterlines in the project area with new PVC waterlines.	PDC	$353,500.00		Yes-BC	$353,500.00	

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Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
42	45	11883	Winters	M	TX2000003	2,532	The City of Winters (City) has utilized 2014 DWSRF PAD funding to evaluate options associated with development of additional water supply by installing water wells east of the City. As a result of project evaluation during the planning phase, the City has decided to modify the existing scope and focus on needed improvements at the WTP and raw water supply line. The City desires to construct a new 0.4 MG clearwell, install a new raw water control valve, update the disinfectant injection points at the WTP and replace the air release valves and install a new sample location on the supply line. The City has sufficient PAD funds remaining to design and bid the project and is now applying for construction funding. The project will be designed and ready for bidding well before construction funds will be available to complete the work.	C	$807,000.00	30%			
51	26	11882	Wolfe City	M	TX1160005	1,795	Re-coat existing tank. Replace all existing water lines with new 6" and 8" water lines. Install one or two new wells.	PDC	$8,130,000.00	70%	Yes-BC	$7,317,000.00	
77	12	11988	Woodloch	M	TX1700165	836	Improvements to the Woodloch water plant including but not limited to the demolition of existing ground storage tank, installation of new booster pumps, yard piping, recoating, and controls. Also, the replacement of three old fire hydrants and installation of seven new fire hydrants.	PADC	$200,000.00	70%			
78	12	11989	Woodloch	M	TX1700165	836	Replacement of the old hydropneumatic tank No. 2.	PADC	$200,000.00	70%			
79	12	11990	Woodloch	M	TX1700165	836	Replacement of the old hydropneumatic tank.	PADC	$200,000.00	70%			
Public Water System Total		**150**							**$924,660,850.85**	**59**	**73**	**$306,157,653.00**	
Total		**150**							**$924,660,850.85**	**59**	**73**	**$306,157,653.00**	

Phase(s): P-Planning; A-Acquisition; D-Design; C-Construction
Green Type: BC-Business Case; CE-Categorically Eligible; Comb-Project consists of both CE and BC components

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Appendix H. Alphabetic List of Ineligible Projects

	PIF #	Entity	Project Cost	Ineligible Description
	11876	Cameron	$15,000,000	Ineligible Project - Project committed in prior SFY
	12005	Eagle Lake	$4,545,000	Ineligible Project - Fire Protection
	11869	Greater Texoma Utility Authority	$23,216,870	Ineligible Project - Project closed in prior SFY
	11901	New Ulm WSC	$208,240	Ineligible Project - Project committed in prior SFY
	11885	Willow Park	$684,000	Ineligible Project - Project closed in prior SFY

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Appendix I. Projects Ineligible for Disadvantaged Status

Projects listed are not eligible for Disadvantaged Community funding but are eligible for low-interest financing.

	PIF	Entity	Project Cost	Ineligible
1	11880	Alice	$698,625	AMHI
2	11959	Blooming Grove	$1,315,000	AMHI
3	11956	Brookesmith SUD	$975,000	AMHI
4	11957	Brookesmith SUD	$2,531,000	AMHI
5	11953	D&M WSC	$1,210,435	AMHI
6	12002	Dario V. Guerra, III, dba Derby I	$200,000	AMHI
7	12003	Domino	$483,000	AMHI
8	11952	Dublin	$5,420,000	AMHI
9	11967	Eden	$9,115,000	AMHI
10	12055	Edinburg	$5,279,965	AMHI
11	11968	Ennis	$7,248,280	AMHI
12	11949	Etoile WSC	$3,136,805	AMHI
13	11947	Forsan	$752,000	AMHI
14	11970	Gladewater	$1,412,302	AMHI
15	11944	Graford	$430,000	AMHI
16	11942	Harris Co. FWSD #47	$5,581,670	AMHI
17	12011	Haskell	$900,000	AMHI
18	11977	Mason	$765,000	HCF
19	11979	Mertzon	$2,364,000	AMHI
20	11935	New Deal	$1,033,000	AMHI
21	11858	North Runnels Co. WSC	$500,000	AMHI
22	11852	Nueces Co. WCID #5	$1,584,500	AMHI
23	11853	Nueces Co. WCID #5	$200,000	AMHI
24	11854	Nueces Co. WCID #5	$200,000	AMHI
25	12133	Nueces Co. WCID #5	$200,000	AMHI
26	11856	Nueces Co. WCID #5	$200,000	AMHI
27	11857	Nueces Co. WCID #5	$200,000	AMHI
28	11899	Palo Pinto WSC	$1,469,000	AMHI
29	11898	Parker County SUD	$1,110,000	AMHI
30	11980	Raywood WSC	$236,100	AMHI
31	11981	Rhome	$850,000	AMHI
32	12021	River Oaks	$7,641,853	AMHI
33	11896	Royalwood MUD	$1,389,850	AMHI
34	11895	San Angelo	$150,000,000	AMHI
35	11892	Smyer	$441,000	AMHI
36	11986	Valley Mills	$3,677,000	AMHI
37	11887	Warren WSC	$271,500	AMHI
38	11987	West Wise SUD	$15,867,000	AMHI
39	11884	Willow Park	$684,000	AMHI
40	11885	Willow Park	$353,500	AMHI
		Total	**$237,926,385**	

AAMHI = Adjusted Annual Median Household Income was greater than 75% of the State AAMHI.
HCF = Household Cost Factor did not meet the minimum threshold.

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Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
1	528	11936	Millersview-Doole WSC	W	TX0480015	3,579	Treating well water at the source and blending with surface water.	PDC	$578,000.00				
2	279	11958	Brady	M	TX1540001	6,059	The City of Brady (City) is addressing the need to improve its water system as a result of violations noted by the Texas Commission on Environmental Quality (TCEQ) and the United States Environmental Protection Agency (EPA).	C	$23,434,000.00	50%			
3	147	11987	West Wise SUD	D	TX2490016	4,206	Given the condition of the District's existing WTP and ongoing challenges in meeting DBP-2 requirements, it is anticipated that the primary focus of this project will be to implement construction of a new WTP, which will need to be capable of meeting and exceeding treatment requirements under current LT-2 and DBP-2 criteria while also being capable of meeting anticipated further tightening of these requirements in the future.	PADC	$15,867,000.00		Yes-BC	$15,139,000.00	
4	141	11871	Gorman	M	TX0670003	1,950	The City of Gorman is proposing to eliminate the old cast iron water line and replace it with PVC water lines. The City is also proposing to replace all of its service meters with new electronic read meters.	PDC	$2,100,045.00	50%	Yes-BC	$2,100,000.00	
5	138	11994	Ballinger	M	TX2000001	6,051	Construct a new raw water supply line from Lake Fort Phantom to the City of Ballinger WTP.	PADC	$30,000,000.00	70%			
6	111	11940	Lawn	M	TX2210005	666	Abandon WTP and construct new treated water supply from a wholesale supplier. New water supply with less TOC, more stable water and less precursors for DBPs. Abandon WTP and construct new treated water supply. Abandon WTP and construct new treated water supply and build taller standpipe in Lawn. Abandon WTP and replace old and deteriorated water lines. Abandon WTP and construct new treated water supply with less TOC, more stable water, and less precursors for DBPs.	PADC	$3,600,000.00	70%			
7	104	11998	Coke County WSC	W	TX0410017	523	Develop new well field for water supply. Install supply line from new well field to existing system.	PADC	$3,500,000.00				
8	103	11862	Melvin	M	TX1540003	179	The City of Melvin proposed to construct corrective treatment facilities for its existing water source using Water Remediation Technologies (WRT) Z-88 radium absorption process.	PDC	$740,000.00	30%			

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Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
9	96	11967	Eden	M	TX0480001	2,766	There are several aspects of the City of Eden's (City) water supply system that are in need of improvement. These improvements include increasing the ability of the City's Cooling Tower to lower groundwater temperatures, reducing scale formation in the new WTP and existing water distribution piping and sedimentation present in the water supply, protection of above ground well equipment against weather elements and the removal of total dissolved solids (TDS) and chlorine as well as meeting secondary drinking water standards (SDWS).	PDC	$9,115,000.00		Yes-BC	$9,115,000.00	
10	83	11981	Rhome	M	TX2490007	1,598	This project will focus on improving the water treatment system for the City.	PDC	$850,000.00				
11	83	12014	Lueders	M	TX1270007	342	The proposed project includes 3,000 l.f. of waterline to serve five new customers, a new disinfection and tank mixing system, and an automatic meter reading system.	PDC	$499,500.00	70%	Yes-BC	$80,000.00	
12	83	11866	Loop WSC	W	TX0830011	300	Proposed Water Treatment Plant	C	$200,000.00				
13	80	12058	Whitharral W & SSSC	W	TX1100011	395	Install treatment system to remove nitrate and fluoride to below drinking water MCLs.	DC	$300,000.00				
14	78	12000	Commodore Cove ID	D	TX0200033	350	A reverse osmosis system will allow CCID to lower the TTHMs levels to comply with TCEQ standards. This will also lower the TDS levels, which CCID is borderline on at this time.	ADC	$190,000.00				
15	78	11977	Mason	M	TX1600001	2,114	City of Mason water supplies have radium levels above MCL and require treatment. This project will provide needed improvements to remove radium from groundwater supply.	PDC	$845,000.00				
16	77	11892	Smyer	M	TX1100010	474	The City of Smyer has four water wells. The City's well water quality does not meet water quality requirements for arsenic (water currently exceeds the MCL for arsenic). A deteriorated 4 inch water line is used to supply the water from the groundwater storage tank to the south side of the City where it connects into the distribution system. The City's 100,000 gallon water storage tank's interior coating has failed. The City does not have a connection to the water supply equipment that would facilitate the quick connection of a generator to the equipment during a loss of power event.	PDC	$466,000.00		Yes-BC	$135,000.00	

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Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
17	76	11879	Anthony	M	TX0710001	3,500	It is imperative that the town construct a new potable drinking water well to keep up with town demands, rehabilitate existing wells, install a new 250,000 gallon elevated water tank to meet both pressure and storage criteria, build an arsenic treatment plant to avoid additional TCEQ violations, and address system deficiencies such as leaking water lines, install a chlorination control system, and replace failing booster stations to avoid more serious problems.	C	$7,449,947.00	50%	Yes-BC	$1,114,500.00	
18	73	12018	Prairie Hill WSC	W	TX1470011	1,794	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Prairie Hill WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Prairie Hill WSC's average day demands; Prairie Hill WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,040,000.00		Yes-BC	$3,040,000.00	
19	72	11961	Rolling Hills WS	W	TX1110032	231	The Rolling Hills system is in disrepair and desperately in need of replacement of all of the major components.	PDC	$2,455,000.00	70%	Yes-BC	$1,227,000.00	
20	70	11952	Dublin	M	TX0720001	4,207	Proposed project will replace water lines, add radio read water meters, and provide a new supply well.	PADC	$5,420,000.00		Yes-BC	$1,626,000.00	
21	70	12023	San Benito	M	TX0310007	24,506	Water Treatment Plant No. 1 Rehabilitation - New Pumps, Piping, Filter Media, Controls, Chemical Feed Systems, Ray Water Intakes and Lab Building. Water Treatment Plan No. 2 Retrofit - New Pretreatment Facilities, Membrane Filtration & Treatment Systems, Yard Piping and Related Sitework & Electrical improvements. New Generator for WTP No. 2.	ADC	$11,203,380.00	50%			
22	70	11991	Agua SUD	D	TX1080022	60,480	The proposed project includes a 4.5 mgd conventional water treatment plant with a water reservoir, upgrade of distribution lines, 1.5 mgd elevated storage tank and upgrade to the irrigation district water pumping system from 1.5 mgf to 6 mgd.	PADC	$40,150,000.00	50%			
23	69	12054	Shallowater	M	TX1520003	2,484	Install GE Electrodialysis Reverse Osmosis (EDR) System.	DC	$1,800,000.00				

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Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
24	69	11976	La Feria	M	TX0310003	7,301	City of La Feria water treatment process improvements for water quality, electrical power efficiencies, and improved circulation.	PDC	$3,147,160.85	30%	Yes-BC	$503,150.00	
25	68	11946	Fort Griffin SUD	D	TX2090005	2,740	Utilize the SUD's existing raw water allotment from the BRA construct a treatment plant and water lines for that purpose.	PADC	$3,657,500.00		Yes-BC	$500,000.00	
26	66	11960	Barton WSC	W	TX0720013	697	The WSC has experienced disinfection residuals less than the required minimum of 2 mg/L. The proposed project will consist of adding chloramines disinfection systems at all pump station sites and adding and/or replacing sections of water lines for a system loop to improve disinfection residuals and to address low pressure areas.	PADC	$1,500,000.00		Yes-BC	$1,500,000.00	
27	66	11877	Bronte	M	TX0410001	3,320	4 new wells, WTP expansion, and a new treated water line to Robert Lee.	PADC	$7,823,961.00	30%	Yes-BC	$575,000.00	
28	65	11848	San Saba	M	TX2060001	4,221	New 6" and 8" water mains are proposed to replace the dilapidated lines.	C	$1,700,000.00	30%	Yes-BC	$1,700,000.00	
29	64	12013	Leroy-Tours-Gerald WSC	W	TX1550027	1,396	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve LTG WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet LTG WSC's average day demands; LTG WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$2,200,000.00		Yes-BC	$2,200,000.00	

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Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
30	64	12004	EOL WSC	W	TX1550025	1,635	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve EOL WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet EOL WSC's average day demands; EOL WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,880,000.00		Yes-BC	$3,880,000.00	
31	64	11984	Sansom Park	M	TX2200071	4,825	New tanks, pumps, wells, buildings, distribution, treatment	PADC	$6,712,426.00	50%			
32	63	11868	Groveton	M	TX2280001	1,057	Construct water well and transmission main to supplement current TRA water supply which is seasonally inadequate for current demand, specifically during drought conditions.	PADC	$2,195,000.00	70%			
33	62	11900	Nueces County	C	TX1780050	170	Nueces County proposes to replace distribution lines throughout Cyndie Park II (served by CP2WSC) as well as construct additional new lines to connect Cyndie Park I and The Ranch (adjacent colonia) residents. Nueces County will then construct upgrades to an existing water system (Nueces Water Supply, approx 4+ miles away) and connect CP I, CPII, and The Ranch to the new system.	AC	$1,584,500.00	70%	Yes-BC	$50,000.00	
34	56	11982	Rogers	M	TX0140004	974	The project will include replacement of existing water lines and installation of a new well, storage and pumping facilities.	PADC	$5,831,000.00		Yes-BC	$30,000.00	

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Rank	Points	PIF #	Entity	Owner Type	PWS ID	Population	Project Description	Phase(s)	Project Cost	Disadv %	Green Type	GPR	Related PIF #'s
Public Water System													
35	54	11993	Axtell WSC	W	TX1550016	1,574	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Axtell WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner o Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Axtell WSC's average day demands; Axtells WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,460,000.00		Yes-BC	$69,200.00	
36	53	11971	Guadalupe Blanco RA	D	TX0290005	22,470	Added chlorination point and mixing additions.	DC	$242,330.00				
37	52	12024	Toyah	M	TX1950004	114	Convert from groundwater to well water. Urgent Need and small systems.	DC	$200,000.00	70%			
38	50	11995	Birome WSC	W	TX1090017	1,556	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Birome WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Birome WSC's average day demands; Birome WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$1,780,000.00		Yes-BC	$1,780,000.00	
39	49	11888	Vinton	M	TX0710151	2,519	The proposed project will consist of the installation of new high capacity water lines. These new lines will be able to maintain minimum pressure and fire flow. A service fee from EPWU will be needed to allow EPWU to provide adequate water storage for Vinton.	PADC	$17,161,800.00	30%			

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Public Water System													
40	49	12046	Moores Water System	P	TX1550127	246	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Moores Water System, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Moores Water System average day demands; Moores Water System existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00		Yes-BC	$970,000.00	
41	48	12015	M S WSC	W	TX1550037	684	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve MS WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet MS WSC's average day demands; MS WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00		Yes-BC	$970,000.00	

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Public Water System													
42	45	11883	Winters	M	TX2000003	2,532	The City of Winters (City) has utilized 2014 DWSRF PAD funding to evaluate options associated with development of additional water supply by installing water wells east of the City. As a result of project evaluation during the planning phase, the City has decided to modify the existing scope and focus on needed improvements at the WTP and raw water supply line. The City desires to construct a new 0.4 MG clearwell, install a new raw water control valve, update the disinfectant injection points at the WTP and replace the air release valves and install a new sample location on the supply line. The City has sufficient PAD funds remaining to design and bid the project and is now applying for construction funding. The project will be designed and ready for bidding well before construction funds will be available to complete the work.	C	$807,000.00	30%			
43	43	11890	Troy	M	TX0140037	1,505	Construct a new water supply municipal well system. The project will also include the construction of the associated ground storage tanks, water pump station and water main installation as required to connect to the existing distribution system. This project also includes the preparation of an Asset Management Plan.	PADC	$2,135,000.00		Yes-BC	$250,000.00	
44	42	11957	Brookesmith SUD	D	TX0250004	8,750	Purchase and install 3,045 radio read meters.	PDC	$975,000.00		Yes-BC	$975,000.00	
45	36	11945	Gordon	M	TX1820007	744	Installing a new microfilter at the existing water treatment plant, and replacing old and deteriorated water lines throughout the City which have caused numerous water leaks. The water treatment plant has exceeded 85% of production capacity and is required by TCEQ to add more production capacity, and significant water loss is due to deteriorated and leaking raw water lines and treated distribution water lines.	PDC	$1,196,000.00	30%	Yes-BC	$1,196,000.00	
46	36	11895	San Angelo	M	TX2260001	96,177	In order to support current and future water supply needs, the City of San Angelo is pursuing the implementation of a potable reuse project.	PDC	$150,000,000.00		Yes-BC	$150,000,000.00	
47	33	11850	Rotan	M	TX0760002	2,763	Install 14 miles of new 12-inch PVC water line to replace existing and ground storage tank.	PDC	$3,880,000.00	30%	Yes-BC	$2,840,000.00	

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Public Water System													
48	31	11970	Gladewater	M	TX0920001	7,812	Rehabilitate the existing raw water intake structure. Rehabilitate two existing elevated storage tanks. Prepare and implement an Asset Management Plan.	PDC	$1,412,302.00				
49	30	12020	R M S WSC	W	TX1550136	960	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve RMS WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet RMS WSC's average day demands; RMS WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,040,000.00		Yes-BC	$3,040,000.00	
50	26	12017	Mount Calm	M	TX1090005	324	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Mount Calm, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Mount Calm's average day demands; Mount Calm's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00	50%	Yes-BC	$19,400.00	
51	26	11882	Wolfe City	M	TX1160005	1,795	Re-coat existing tank. Replace all existing water lines with new 6" and 8" water lines. Install one or two new wells.	PDC	$8,130,000.00	70%	Yes-BC	$7,317,000.00	
52	24	11847	Vernon	M	TX2440001	10,874	Install a new 16 mile 24 inch PVC pipeline.	PADC	$11,000,000.00	50%	Yes-BC	$11,000,000.00	
53	22	11972	Guadalupe Blanco RA	D	TX0460239	100,000	Aeration and granulated activated carbon (GAC) DPB control.	DC	$11,934,585.00				
54	21	11955	Carbon	M	TX0670015	272	Pump Station Improvements to increase the storage and pumping capacities to meet compliance.	PDC	$425,000.00	70%	Yes-BC	$425,000.00	

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Public Water System													
55	20	12002	Dario V. Guerra, III, dba Derby Ing.	W	TX0820016	113	Construct a new well at a suitable location to replace the existing water well and also to build redundancy in the system.	PADC	$200,000.00				
56	20	12042	Bracken Christian School of Bulverde	P	TX0460201	500	Convert PWS 460201 to a customer of CCN 10692.	C	$59,000.00				
57	17	11865	Lyford	M	TX2450003	2,611	Installation of two ground water wells at the water treatment plant for a new water supply source, with construction of a 1.0 MGD reverse osmosis RO membrane treatment facility to treat the brackish ground water.	PADC	$4,590,000.00	50%			
58	16	11889	Union WSC	W	TX2140004	4,457	Replacement and upgrades to existing water main distribution lines to address water and pressures losses. Installation of new main distribution lines and vales to improve water distribution efficiency and reduce water pressure deficiencies. Connection of existing residential and commercial water services to new water main distribution lines. Construction of a 250,000 gallons storage elevated tank. Expansion of the existing water treatment plant from 1.5 MGD to 3.0 MGD.	PADC	$5,610,915.00	30%	Yes-BC	$650,000.00	
59	16	11872	Donna	M	TX1080002	18,300	Rehabilitation of existing water treatment plant and construction of an adjacent raw water reservoir. Existing plant has deteriorated and is in dire need of rehabilitation and to make repairs due to damages sustain in recent Hurricane. A new water reservoir is needed to store water in emergencies due to the unreliability of and inability of the local irrigation district to deliver raw water during power outages or emergency construction of the water canal system. A raw water reservoir will allow pretreatment and settlement of the raw water and a reduction of the amount of chemical need for water disinfection. The addition of an inordinate amount of chemicals needed for water settlement is making the water at the plant very corrosive and the corrosive water is deteriorating the metal components of the plant treatment equipment.	PADC	$8,625,000.00	50%			
60	16	11861	Mexia	M	TX1470004	7,459	The City recently replaced approximately 50,000 l.f. of water mains and now seeks to replace broken/malfunctioning/unreliable water meters with AMR meters.	PDC	$1,880,000.00	70%	Yes-BC	$1,880,000.00	

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Public Water System													
61	15	11997	Clarksville	M	TX1940002	3,179	To address the future loss of water supply, Clarksville will study supply options consisting of a new reservoir, connection to adjacent systems and drilling additional wells. Clarksville also has excessive loss rates and requires a water loss study.	P	$125,000.00	50%	Yes-BC	$50,000.00	
62	15	11948	Evant	M	TX0500015	465	Water service to customers is always an important subject in a city's utility needs. TCEQ has set standards for minimum water line pipe sizes and the number of service connections that can be run from these lines. Aging infrastructure is also a factor when looking at water lines and can make them vulnerable to leaks and failures. The City of Evant is pursuing the implementation of upsized water lines to ensure all TCEQ regulations are met and to better serve customers that are connected to these water lines.	PDC	$200,000.00	50%	Yes-BC	$200,000.00	
63	14	11935	New Deal	M	TX1520015	794	The project is to replace the deteriorated 6-inch Asbestos Cement line from the well field 3.3 miles northeast of the City with new 8-inch C-900 PVC or HDPE and to install a standpipe water storage tank in the southwest quadrant of the City. The new pipe will reduce the friction loss considerably compared to the existing line, as well as prevent leaks on the existing line. It will take approximately 18,000 linear feet of pipe to replace the deteriorated line. The standpipe will stabilize the water pressure in the southwest area of the City which is located on the west side of the interstate.	PDC	$1,206,000.00		Yes-BC	$692,000.00	
64	14	11881	114th Street Mobile Home Park	P	TX1520067	123	Installation of filter system for Arsenic and Fluoride removal.	PDC	$200,000.00				
65	14	11950	Eastland	M	TX0670002	3,919	The proposed project will include the installation of new water lines to eliminate leaks and reduce water loss.	PDC	$1,070,000.00	30%	Yes-BC	$1,070,000.00	
66	14	11897	Roma	M	TX2140007	18,903	The City is addressing the need for a new regional water treatment plant (WTP) to serve its residents and businesses and fully comply with all water treatment regulations.	PADC	$4,450,000.00	50%	Yes-BC	$4,450,000.00	
67	14	12025	Waco	M	TX1550008	127,796	This project will implement advanced metering infrastructure and acoustic leak detection to the retail and wholesale customers of the City of Waco	C	$15,000,000.00	30%	Yes-BC	$15,000,000.00	
68	13	11954	Cranfills Gap	M	TX0180013	243	City proposes to replace broken or malfunctioning water meters within their CCN	PDC	$220,550.00	50%	Yes-BC	$130,500.00	

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Public Water System													
69	13	12026	Wharton	M	TX2410005	8,768	The City of Wharton is developing a 50 year Water Supply. This includes development of a new well field just across the Colorado River. This project will construct a new municipal water well and storage tank on the City Airport property, and construct the pumping system and pipeline to connect the new water well with the City's existing water supply syustem. The City will develop an asset management plan to use as a resource in all City water/sewer projects and planning purposes.	PADC	$7,320,000.00	50%			
70	13	11951	Eagle Pass Water Works System	M	TX1620001	52,624	Expand WTP capacity, resize distribution lines and rehab storage tanks.	DC	$52,593,351.00	30%			
71	13	11965	Covington	M	TX1090021	233	The City of Covington's ground storage tank (GST) is in poor condition, showing signs of leaking, and the tank foundation is eroding away. Replacement of the tank is vital to maintain system operation. As an emergency response, the City is constructing a temporary ground storage tank to serve as a stopgap until funding is available to construct a permanent replacement for the GST. In addition, the existing service pumps, electrical/controls, and piping at the service pump station are aging and have become unreliable. The City is pursuing implementation of the GST replacement and service pump station rehabilitation in order to maintain adequate service for the community.	PDC	$825,500.00	50%	Yes-BC	$70,000.00	
72	13	11859	Mount Calm	M	TX1090005	320	Due to the fact the well needing repair is the only water source for the city; it has been proposed to construct a new well of equal depth and size to replace the existing city well. This will eliminate electrical issues and repair costs, and maintain well production during construction.	DC	$1,937,500.00	70%			
73	13	11891	Study Butte WSC	W	TX0220035	482	Replace waterlines, install pressure reducing valves, install well servicing rig to reduce downtime, install chemical storage facilities and building upgrades.	PDC	$1,256,000.00	70%	Yes-BC	$1,256,000.00	
74	13	11867	Joaquin	M	TX2100010	824	The proposed project seeks to replace borken/malfunctioning/unreliable water meters with AMR meters and also, identify (via water leak detection survey) and replace aged water mains that continue to cause excessive water loss.	PDC	$2,745,000.00	70%	Yes-BC	$2,745,000.00	

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Public Water System													
75	13	11949	Etoile WSC	W	TX1740011	1,974	Well #4, Aerator, Filters, Storage Tanks, Booster Pumps, Water Main, & Related Work to treat organics and reduce TTHM formation, and therefore reduce amount of water currently wasted flush distribution lines.	PADC	$3,136,805.00				
76	12	11943	Gustine	M	TX0470003	496	The proposed project consists of constructing a new elevated storage tank.	PDC	$550,000.00	30%	Yes-BC	$270,000.00	
77	12	11988	Woodloch	M	TX1700165	836	Improvements to the Woodloch water plant including but not limited to the demolition of existing ground storage tank, installation of new booster pumps, yard piping, recoating, and controls. Also, the replacement of three old fire hydrants and installation of seven new fire hydrants.	PADC	$200,000.00	70%			
78	12	11989	Woodloch	M	TX1700165	836	Replacement of the old hydropneumatic tank No. 2.	PADC	$200,000.00	70%			
79	12	11990	Woodloch	M	TX1700165	836	Replacement of the old hydropneumatic tank.	PADC	$200,000.00	70%			
80	12	12006	El Paso PSB	M	TX0710002	823,862	El Paso Water Utility proposed to construct a potable water system for the homes of the residents of the "Four Streets" section of the Canutillo Colonia, to bring fresh water that meets health standards. This Canutillo area's current "systems" are all privately owned. Testing has determined that there are cases of contamination of the local well water from area wastewater systems.	C	$885,369.00	30%			
81	12	11992	Aurora	M	TX2490082	509	In order for the City of Aurora to have their own independent water system, they propose to drill a new 80 GPM well in the Trinity Aquifer, construct a 50,000 gallon elevated storage tank, 12-in. raw water line, treatment unit, 12-in. transmission line and telemetry. The City also plans to develop an asset management plan for this new groundwater system.	PDC	$1,050,000.00				
82	12	11886	West Tawakoni	M	TX1160012	1,683	Construct new Water Intake Structure into deeper water. Per PER, a depth of +/-25 feet can be obtained by constructing the Intake at the proposed location. Develop Asset Management Plan.	PADC	$1,489,022.00	50%			
83	11	11962	Beaver Creek WCID # 1	D		872	The existing privately owned water wells within the Beaver Creek WCID#1 (District) service area have been deemed a health nuisance by the Department of State Health Services. After completion of the EDAP Planning Program, the District proposes to construct a first time service water system in an effort to provide a source of safe drinking water to its residents.	C	$6,486,462.00	70%			

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Public Water System													
84	11	12021	River Oaks	M	TX2200069	7,437	The majority of the city's water lines were installed in the 1940's and the 1950's that consisted mostly of cast iron, galvanized iron and asbestos cement. The lines are old and deteriorating that causes leaks and poor water quality due to the rust and corrosion associated with cast iron and galvanized piping. The City's water plan was upgraded back in 1993 and is in need of emergency water plan project to rebuild the Clarifier.	C	$7,641,853.00		Yes-BC	$7,641,853.00	
85	11	11941	Kellyville-Berea WSC	W	TX1580003	1,116	Construct a new public water supply well and create and implement an Asset Management Plan.	C	$577,500.00	30%			
86	10	12003	Domino	M	TX0340041	79	To address the system deficiencies, the water tower will be repaired/painted and the southern loop to the water system will be added. In some areas the city has a new water line on one side of the road and an old line on the other. All houses will be placed on the newer lines.	DC	$483,000.00				
87	10	12016	Melvin	M	TX1540003	178	The City will replace the pumps, and add necessary valves, meters and other fixtures, as well as the piping assembly in the pump station. The City will also replace distribution main throughout town.	PDC	$200,000.00	30%			
88	10	12012	Loving WSC	W	TX2520006	200	Replace existing 2-inch and 1-inch pipelines with PVC piping. Replace one existing ground storage tank with new tank that matched height of remaining tank. Adjust height of 2nd hydrotank to match original tank.	PDC	$706,000.00	50%			
89	10	11898	Parker County SUD	D	TX1840025	370	Material costs for 0.1 MG elevated storage tank to meet TCEQ storage requirements and reduce water loss.	PADC	$1,110,000.00		Yes-BC	$1,110,000.00	
90	10	11963	Buckholts	M	TX1660007	515	Water Meter Replacement	DC	$196,000.00	70%	Yes-BC	$119,000.00	
91	10	11873	Cross Plains	M	TX0300003	982	The City of Cross Plains proposes to replace undersized lines and loop dead end areas in their system.	PDC	$1,200,000.00	30%			
92	10	11964	Combes	M	TX0310021	2,553	Storage Tank rehabilitation project, Waterline extension and water meter replacements.	DC	$502,000.00	50%			
93	10	11985	Santa Rosa	M	TX0310009	2,873	Replace water meters city wide.	DC	$322,500.00	50%			
94	10	11884	Willow Park	M	TX1840027	4,410	Replace existing waterlines in the project area with new PVC waterlines.	PDC	$353,500.00		Yes-BC	$353,500.00	
95	10	11863	Mathis	M	TX2050003	5,001	Replace undersized 2" waterlines with looped 8" water lines. The current system does not meet TCEQ Chapter 290 regulations for max. number of connections on a 2" water line and WTP improvements.	PDC	$3,189,704.00	30%			

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Public Water System													
96	10	11874	Crockett	M	TX1130001	6,950	New high service pump station, ground storage tank and elevated tank.	PADC	$2,800,000.00	70%			
97	10	11849	San Juan	M	TX1080010	24,166	Rehabilitate and upgrade existing plant to current standards.	C	$6,975,000.00	30%			
98	10	11937	Marshall	M	TX1020002	32,433	Installation of new water mains, valves, and meters, upgrade of existing mains.	PDC	$3,095,000.00	30%	Yes-BC	$2,300,000.00	
99	6	11996	Buena Vista WS	P	TX0270008	315	Corix proposes an area-wide replacement of existing meters with an automatic meter reading system (AMR). Corix also proposed constructing a 10-inch pipeline to interconnect the system to the Corix Lake Buchanan Water System to address Buena Vista Water System's numerous TCEQ violations. Corix also plans to develop an asset management plan for this water system.	ADC	$770,000.00		Yes-BC	$50,000.00	
100	6	12019	Pure WSC	W	TX1550039	707	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Pure WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Pure WSC's average day demands; Pure WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00		Yes-BC	$970,000.00	
101	6	12009	H & H WSC	W	TX1550029	1,504	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve H&H WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet H&H WSC's average day demands; H&H WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,460,000.00		Yes-BC	$3,460,000.00	

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Public Water System													
102	6	11852	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the replacement of aged and undersized PVC and asphaltic concrete pipe (ACP) in the east portion of the District's service area. Broken water lines in the service area caused disruption for customers and results in increased water loss. New PVC distribution lines will be designed and constructed to reduce water loss, improve water pressure and distribution throughout the service area.	PDC	$200,000.00				
103	6	11853	Nueces Co WCID # 5	D	TX1780010	810	The project consists of looping existing waterlines to eliminate dead ends. The district's water distribution system has many dead end lines that jeopardize the water quality for its residents. Looping these waterlines will create better water circulation and eliminate stagnant water in the lines. The project will also include the installation of new flush valves for waterlines that cannot be looped within the existing system.	PDC	$200,000.00				
104	6	11856	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the replacement of aged and undersized PVC and asphaltic concrete pipe (ACP) in the north portion of the District's service area. Broken water lines in the service area cause disruption for customers and results in increased water loss. New PVC distribution lines will be designed and constructed to reduce water loss, improve water pressure and distribution throughout the service area.	PDC	$200,000.00				
105	6	11857	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the installation of water meters in the service area, purchase of leak detection equipment and instrumentation, and preparation of an asset management plan. The leak detection equipment will assist the District during the asset management planning process and conditions assessment.	PDC	$200,000.00				
106	6	12133	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the replacement of aged and undersized PVC and asphaltic concrete pipe (ACP) in the south portion of the District's service area. Broken water lines in the service area cause disruption for customers and results in increased water loss. New PVC distribution lines will be designed and constructed to reduce water loss, improve water pressure and distribution throughout the service area.	PDC	$200,000.00				

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Public Water System													
107	6	11854	Nueces Co WCID # 5	D	TX1780010	810	The project consists of the replacement of aged and undersized PVC and asphaltic concrete pipe (ACP) in the west portion of the District's service area. Broken water lines in the service area cause disruption for customers and results in increased water loss. New PVC distribution lines will be designed and constructed to reduce water loss, improve water pressure and distribution throughout the service area.	PDC	$200,000.00				
108	6	11978	McAllen	M	TX1080006	140,000	The City of McAllen's South Water Treatment Plant utilizes two (2) treatment trains. The north Train is rated at 37 MGD. The south train is rated at 8 MGD. This project would expand capacity at the south treatment train by an additional 4 MGD. The project also includes the construction of an 18" - 24" Raw Water Supply Line.	C	$6,800,000.00				
109	5	11887	Warren WSC	W	TX2290006	1,746	New AMR water meters.	PDC	$271,500.00		Yes-BC	$271,500.00	
110	4	12022	Ross WSC	W	TX1550042	2,250	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Ross WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Ross WSC's average day demands; Ross WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$4,635,000.00		Yes-BC	$4,635,000.00	

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Public Water System													
111	4	12008	Gholson WSC	W	TX1550028	3,033	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Gholson WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Gholson WSC's average day demands; Gholson WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$5,040,000.00		Yes-BC	$5,040,000.00	
112	3	11880	Alice	M	TX1250001	21,248	The first phase of this project is to replace at lease the 8-mile portion where the breaks have occurred.	PD	$776,250.00		Yes-BC	$698,625.00	
113	3	12057	Bluegrove WSC	W	TX0390014	75	Bluegrove WSC will replace its 4" main water line through town, replace antiquated meters, updated aging portions of the system. Bluegrove WSC will also purchase the land for its well field.	PADC	$280,000.00				
114	3	11878	Bluegrove WSC	W	TX0390014	75	Bluegrove WSC will replace its 4" main water line through town as well as all necessary connections, valves and meter reconnections.	DC	$200,000.00				
115	3	11947	Forsan	M	TX1140011	232	In order to restore the aging infrastructure to its proper function, the City is requesting funding to help replace the City’s sole elevated storage tank (EST).	PDC	$752,000.00				
116	3	11979	Mertzon	M	TX1180002	778	In the midst of the current historic ongoing drought, the City’s water supply is rapidly running out of time. The City now only has five (5) functional groundwater wells (of the original eight), caused by continual pumping during the ongoing drought. The City has observed a steady decrease in production from its wells over the past several years, to the point that three of the original eight wells are essentially “dry” at this time. In order to support current water supply needs, the City of Mertzon is pursuing implementation of two major project components, including construction of a new supply well and a treatment system to address the City’s groundwater quality issues.	PDC	$2,364,000.00		Yes-BC	$2,364,000.00	

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Public Water System													
117	3	11860	Midway ISD	D	TX0390020	981	Midway ISD will replace their water tank, renovated the main pump station and drill another well to increase water production. The main water lines will also be replaced as well as necessary connections, valves and service reconnections.	DC	$199,500.00				
118	3	11986	Valley Mills	M	TX0180003	1,207	In order to restore the aging infrastructure to its proper function, the City is requesting funding to help address the aging and inefficient distribution system.	PDC	$3,677,000.00		Yes-BC	$3,677,000.00	
119	3	11980	Raywood WSC	W	TX1460006	1,455	Replace existing water meters with new automatic read meters.	PDC	$236,100.00		Yes-BC	$236,100.00	
120	3	11858	North Runnels Co WSC	W	TX2000005	2,256	Replace meters with AMR system.	PDC	$500,000.00		Yes-BC	$500,000.00	
121	3	12011	Haskell	M	TX1040001	3,235	Replace existing water meters with an automatic meter reading (AMR) system.	PDC	$900,000.00		Yes-BC	$900,000.00	
122	3	11953	D & M WSC	W	TX1740010	4,740	Correct insufficient water production, insufficient water storage capacity, insufficient pump and pressure vessel capacity, and lack of asset management plan.	PDC	$1,210,435.00		Yes-BC	$125,000.00	
123	3	11966	D & M WSC	W	TX1740010	4,740	Insufficient water production and lack of an Asset Management Plan.	PDC	$1,490,000.00				
124	2	11899	Palo Pinto WSC	W	TX1820004	347	Replacing existing distribution lines which cause significant water loss and water outages.	PDC	$1,469,000.00		Yes-BC	$1,469,000.00	
125	1	12007	Eldorado	M	TX2070001	1,925	Replace existing meters with an AMR metering system.	PDC	$775,000.00		Yes-BC	$775,000.00	
126	1	11942	Harris Co FWSD # 47	D	TX1010260	2,434	Replace old waterline with Class 150 c-900 PVC, installation of new AMR to help identify leaks.	PDC	$5,581,670.00		Yes-BC	$5,581,670.00	
127	1	11956	Brookesmith SUD	D	TX0250004	12,697	Replace old water lines.	PDC	$2,531,000.00		Yes-BC	$2,531,000.00	
128	1	11959	Blooming Grove	M	TX1750001	833	Construct a new water supply well and ground storage tank and create and implement an Asset Management Plan	PDC	$1,315,000.00				
129	1	11875	Cottonwood Shores	M	TX0270013	1,123	Replace existing aged .5 MGD water treatment plant with .5 MGD new water treatment plant equipment. High service pumps. Upgrade raw water pumps and automatic controls at quarry site.	PDC	$3,817,000.00		Yes-BC	$70,000.00	
130	1	12010	Harris Co MUD # 167	D	TX1012842	15,000	Installation of "smart" water meters to meet the district goals of water efficiency goals. This would include the preparation of an asset management plan.	C	$2,000,000.00		Yes-BC	$2,000,000.00	
131	1	11969	Ennis	M	TX0700001	19,331	Water line replacements in downtown Ennis and create and implement an Asset Management Plan.	PDC	$4,318,960.00		Yes-BC	$4,318,960.00	
132	0	11999	Comanche County WSC	W	TX0740027	120	Installation of an AMR metering system.	PDC	$325,000.00		Yes-BC	$325,000.00	

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Public Water System													
133	0	11851	Ralston Acres WSC	W	TX1010196	350	Update system and move mains from private back yards to the public streets.	PADC	$1,490,000.00				
134	0	11944	Graford	M	TX1820003	830	Replace existing water lines.	PADC	$430,000.00		Yes-BC	$430,000.00	
135	0	11864	Magnolia	M	TX1700020	1,547	Construct new plant site to include new water well, ground storage tank, elevated storage tank, booster pump station, generator, and all related yard piping. Construct transmission line to tie new plant site into the system. Replace existing ground storage tank at Well No. 1 site.	PAD	$845,697.00				
136	0	11870	Greater Texoma UA	D	TX0490016	1,906	Replace asbestos cement pipe with polyethylene pipe (2.2 miles).	PDC	$11,418,091.00				
137	0	11896	Royalwood MUD	D	TX1010201	1,982	Update and Modernize Existing Water Plants	PDC	$1,389,850.00		Yes-BC	$375,695.00	
138	0	11893	Santo SUD	D	TX1820010	2,024	Make an interconnect with Parker Co SUD to obtain treated water.	PADC	$778,000.00				
139	0	12028	Chandler	M	TX1070006	2,783	New Ground Storage, high service pump station, Hydropneumatic tank, and disinfection system to serve new water well. Rehabilitation of Existing Water Well, Ground Storage Tank, and High Service Pump Station at existing well at Sportsman's Paradise.	PDC	$750,000.00				
140	0	11938	Liberty	M	TX1460003	8,397	Rehabilitate well site including the replacement or rehabilitation of well and distribution pumps, well casing/screening and ground storage tank.	C	$2,866,250.00				
141	0	11939	Liberty	M	TX1460003	8,397	Construct a 150,000 gallon elevated tank in the vicinity of the low pressure to offset the losses due to higher elevations in this area.	C	$1,430,000.00				
142	0	12056	Liberty	M	TX1460003	8,397	Extend or enlarge existing waterlines to provide service to additional areas within the city limits and install booster pump stations to improve pressure between water planes.	C	$6,311,500.00				
143	0	11975	Hutto	M	TX2460007	14,728	Replace approximately 2,700 linear feet of aging waterlines made of substandard materials along Live Oak Street.	PADC	$965,233.00				
144	0	11973	Hutto	M	TX2460007	14,728	Installation of an 8" waterline along 7,500 ft on Front Street.	DC	$782,000.00				
145	0	11974	Hutto	M	TX2460007	14,728	Install three drinking water lines to service communities and school with current low flow.	PADC	$4,651,522.00				
146	0	11968	Ennis	M	TX0700001	19,331	Failing waterlines with insufficient valving. Frequent breakage causes loss of service, risk of system contamination, and significant water loss.	PDC	$7,248,280.00				

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Public Water System													
147	0	12055	Edinburg	M	TX1080004	77,100	Expansion of the West WTP from 8.0MGD to 16MGD, an expansion of 8.0MGD, will provide a total treatment capacity of 25.99MGD with a required treatment capacity of 17.64MGD. The production capacity will be at 67.8%. The expansion will also include a 2.0MGD clearwell/ground storage tank.	PDC	$5,279,965.00				
148	0	11894	San Antonio Water System	M	TX0150018	1,659,593	This project includes the replacement of electrical switchgear, replace the chlorine gas system with on-site sodium hypochlorite generation system, upgrade the fluoridation equipment, and replace valves and yard piping.	C	$14,668,080.00				
149	0	11983	San Antonio Water System	M	TX150018	1,659,593	Zarzamora and LaRosa Pump Station Upgrade.	C	$7,105,000.00				
150	0	12001	Dallas	M	TX0570004	2,493,030	DWU's water main replacement program for rehabilitation or replacement of approximately 40 miles of small diameter water mains annually. The goal has been established in an effort to reduce main breaks throughout the system; thereby reducing maintenance costs, water losses and impacts to the public.	DC	$220,000,000.00				
Public Water System Total		**150**							**$924,660,850.85**	**59**	**73**	**$306,157,653.00**	
Total		**150**							**$924,660,850.85**	**59**	**73**	**$306,157,653.00**	

Phase(s): P-Planning; A-Acquisition; D-Design; C-Construction
Green Type: BC-Business Case; CE-Categorically Eligible; Comb-Project consists of both CE and BC components

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Public Water System												
1	528	11936	Millersview-Doole WSC	TX0480015	3,579	Treating well water at the source and blending with surface water.	PDC	$578,000.00				
2	279	11958	Brady	TX1540001	6,059	The City of Brady (City) is addressing the need to improve its water system as a result of violations noted by the Texas Commission on Environmental Quality (TCEQ) and the United States Environmental Protection Agency (EPA).	C	$23,434,000.00	50%			
3	147	11987	West Wise SUD	TX2490016	4,206	Given the condition of the District's existing WTP and ongoing challenges in meeting DBP-2 requirements, it is anticipated that the primary focus of this project will be to implement construction of a new WTP, which will need to be capable of meeting and exceeding treatment requirements under current LT-2 and DBP-2 criteria while also being capable of meeting anticipated further tightening of these requirements in the future.	PADC	$15,867,000.00		Yes-BC	$15,139,000.00	
4	141	11871	Gorman	TX0670003	1,950	The City of Gorman is proposing to eliminate the old cast iron water line and replace it with PVC water lines. The City is also proposing to replace all of its service meters with new electronic read meters.	C	$1,825,195.00	50%	Yes-BC	$2,100,000.00	
5	138	11994	Ballinger	TX2000001	6,051	Construct a new raw water supply line from Lake Fort Phantom to the City of Ballinger WTP.	PADC	$30,000,000.00	70%			
6	111	11940	Lawn	TX2210005	666	Abandon WTP and construct new treated water supply from a wholesale supplier. New water supply with less TOC, more stable water and less precursors for DBPs. Abandon WTP and construct new treated water supply. Abandon WTP and construct new treated water supply and build taller standpipe in Lawn. Abandon WTP and replace old and deteriorated water lines. Abandon WTP and construct new treated water supply with less TOC, more stable water, and less precursors for DBPs.	C	$3,252,000.00	70%			
7	104	11998	Coke County WSC	TX0410017	523	Develop new well field for water supply. Install supply line from new well field to existing system.	PADC	$3,500,000.00				
8	103	11862	Melvin	TX1540003	179	The City of Melvin proposed to construct corrective treatment facilities for its existing water source using Water Remediation Technologies (WRT) Z-88 radium absorption process.	PDC	$740,000.00	30%			

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Public Water System												
9	96	11967	Eden	TX0480001	2,766	There are several aspects of the City of Eden's (City) water supply system that are in need of improvement. These improvements include increasing the ability of the City's Cooling Tower to lower groundwater temperatures, reducing scale formation in the new WTP and existing water distribution piping and sedimentation present in the water supply, protection of above ground well equipment against weather elements and the removal of total dissolved solids (TDS) and chlorine as well as meeting secondary drinking water standards (SDWS).	PDC	$9,115,000.00		Yes-BC	$9,115,000.00	
10	83	11981	Rhome	TX2490007	1,598	This project will focus on improving the water treatment system for the City.	PDC	$850,000.00				
11	83	12014	Lueders	TX1270007	342	The proposed project includes 3,000 l.f. of waterline to serve five new customers, a new disinfection and tank mixing system, and an automatic meter reading system.	PDC	$499,500.00	70%	Yes-BC	$80,000.00	
12	83	11866	Loop WSC	TX0830011	300	Proposed Water Treatment Plant	C	$200,000.00				
13	80	12058	Whitharral W & SSSC	TX1100011	395	Install treatment system to remove nitrate and fluoride to below drinking water MCLs.	DC	$300,000.00				
14	78	12000	Commodore Cove ID	TX0200033	350	A reverse osmosis system will allow CCID to lower the TTHMs levels to comply with TCEQ standards. This will also lower the TDS levels, which CCID is borderline on at this time.	ADC	$190,000.00				
15	78	11977	Mason	TX1600001	2,114	City of Mason water supplies have radium levels above MCL and require treatment. This project will provide needed improvements to remove radium from groundwater supply.	PDC	$845,000.00				
16	77	11892	Smyer	TX1100010	474	The City of Smyer has four water wells. The City's well water quality does not meet water quality requirements for arsenic (water currently exceeds the MCL for arsenic). A deteriorated 4 inch water line is used to supply the water from the groundwater storage tank to the south side of the City where it connects into the distribution system. The City's 100,000 gallon water storage tank's interior coating has failed. The City does not have a connection to the water supply equipment that would facilitate the quick connection of a generator to the equipment during a loss of power event.	PDC	$466,000.00		Yes-BC	$135,000.00	
17	76	11879	Anthony	TX0710001	3,500	It is imperative that the town construct a new potable drinking water well to keep up with town demands, rehabilitate existing wells, install a new 250,000 gallon elevated water tank to meet both pressure and storage criteria, build an arsenic treatment plant to avoid additional TCEQ violations, and address system deficiencies such as leaking water lines, install a chlorination control system, and replace failing booster stations to avoid more serious problems.	C	$7,449,947.00	50%	Yes-BC	$1,114,500.00	

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Public Water System												
18	73	12018	Prairie Hill WSC	TX1470011	1,794	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Prairie Hill WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Prairie Hill WSC's average day demands; Prairie Hill WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,040,000.00		Yes-BC	$3,040,000.00	
19	72	11961	Rolling Hills WS	TX1110032	231	The Rolling Hills system is in disrepair and desperately in need of replacement of all of the major components.	PDC	$2,455,000.00	70%	Yes-BC	$1,227,000.00	
20	70	11952	Dublin	TX0720001	4,207	Proposed project will replace water lines, add radio read water meters, and provide a new supply well.	PADC	$5,420,000.00		Yes-BC	$1,626,000.00	
21	70	12023	San Benito	TX0310007	24,506	Water Treatment Plant No. 1 Rehabilitation - New Pumps, Piping, Filter Media, Controls, Chemical Feed Systems, Ray Water Intakes and Lab Building. Water Treatment Plan No. 2 Retrofit - New Pretreatment Facilities, Membrane Filtration & Treatment Systems, Yard Piping and Related Sitework & Electrical improvements. New Generator for WTP No. 2.	ADC	$11,203,380.00	50%			
22	70	11991	Agua SUD	TX1080022	60,480	The proposed project includes a 4.5 mgd conventional water treatment plant with a water reservoir, upgrade of distribution lines, 1.5 mgd elevated storage tank and upgrade to the irrigation district water pumping system from 1.5 mgf to 6 mgd.	PADC	$40,150,000.00	50%			
23	69	12054	Shallowater	TX1520003	2,484	Install GE Electrodialysis Reverse Osmosis (EDR) System.	DC	$1,800,000.00				
24	69	11976	La Feria	TX0310003	7,301	City of La Feria water treatment process improvements for water quality, electrical power efficiencies, and improved circulation.	PDC	$3,147,160.85	30%	Yes-BC	$503,150.00	
25	68	11946	Fort Griffin SUD	TX2090005	2,740	Utilize the SUD's existing raw water allotment from the BRA construct a treatment plant and water lines for that purpose.	PADC	$3,657,500.00		Yes-BC	$500,000.00	
26	66	11960	Barton WSC	TX0720013	697	The WSC has experienced disinfection residuals less than the required minimum of 2 mg/L. The proposed project will consist of adding chloramines disinfection systems at all pump station sites and adding and/or replacing sections of water lines for a system loop to improve disinfection residuals and to address low pressure areas.	PADC	$1,500,000.00		Yes-BC	$1,500,000.00	

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Public Water System												
27	66	11877	Bronte	TX0410001	3,320	4 new wells, WTP expansion, and a new treated water line to Robert Lee.	PADC	$7,823,961.00	30%	Yes-BC	$575,000.00	
28	65	11848	San Saba	TX2060001	4,221	New 6" and 8" water mains are proposed to replace the dilapidated lines.	C	$1,700,000.00	30%	Yes-BC	$1,700,000.00	
29	64	12013	Leroy-Tours-Gerald WSC	TX1550027	1,396	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve LTG WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet LTG WSC's average day demands; LTG WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$2,200,000.00		Yes-BC	$2,200,000.00	
30	64	12004	EOL WSC	TX1550025	1,635	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve EOL WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet EOL WSC's average day demands; EOL WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,880,000.00		Yes-BC	$3,880,000.00	
31	64	11984	Sansom Park	TX2200071	4,825	New tanks, pumps, wells, buildings, distribution, treatment	PADC	$6,712,426.00	50%			
32	63	11868	Groveton	TX2280001	1,057	Construct water well and transmission main to supplement current TRA water supply which is seasonally inadequate for current demand, specifically during drought conditions.	PADC	$2,195,000.00	70%			
33	62	11900	Nueces County	TX1780050	170	Nueces County proposes to replace distribution lines throughout Cyndie Park II (served by CP2WSC) as well as construct additional new lines to connect Cyndie Park I and The Ranch (adjacent colonia) residents. Nueces County will then construct upgrades to an existing water system (Nueces Water Supply, approx 4+ miles away) and connect CP I, CPII, and The Ranch to the new system.	AC	$1,584,500.00	70%	Yes-BC	$50,000.00	

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Public Water System												
34	56	11982	Rogers	TX0140004	974	The project will include replacement of existing water lines and installation of a new well, storage and pumping facilities.	PADC	$5,831,000.00		Yes-BC	$30,000.00	
35	54	11993	Axtell WSC	TX1550016	1,574	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Axtell WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner o Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Axtell WSC's average day demands; Axtells WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,460,000.00		Yes-BC	$69,200.00	
36	53	11971	Guadalupe Blanco RA	TX0290005	22,470	Added chlorination point and mixing additions.	DC	$242,330.00				
37	52	12024	Toyah	TX1950004	114	Convert from groundwater to well water. Urgent Need and small systems.	DC	$200,000.00	70%			
38	50	11995	Birome WSC	TX1090017	1,556	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Birome WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Birome WSC's average day demands; Birome WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$1,780,000.00		Yes-BC	$1,780,000.00	
39	49	11888	Vinton	TX0710151	2,519	The proposed project will consist of the installation of new high capacity water lines. These new lines will be able to maintain minimum pressure and fire flow. A service fee from EPWU will be needed to allow EPWU to provide adequate water storage for Vinton.	PADC	$17,161,800.00	30%			

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Public Water System												
40	49	12046	Moores Water System	TX1550127	246	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Moores Water System, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Moores Water System average day demands; Moores Water System existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00		Yes-BC	$970,000.00	
41	48	12015	M S WSC	TX1550037	684	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve MS WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet MS WSC's average day demands; MS WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00		Yes-BC	$970,000.00	

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Public Water System												
42	45	11883	Winters	TX2000003	2,532	The City of Winters (City) has utilized 2014 DWSRF PAD funding to evaluate options associated with development of additional water supply by installing water wells east of the City. As a result of project evaluation during the planning phase, the City has decided to modify the existing scope and focus on needed improvements at the WTP and raw water supply line. The City desires to construct a new 0.4 MG clearwell, install a new raw water control valve, update the disinfectant injection points at the WTP and replace the air release valves and install a new sample location on the supply line. The City has sufficient PAD funds remaining to design and bid the project and is now applying for construction funding. The project will be designed and ready for bidding well before construction funds will be available to complete the work.	C	$807,000.00	30%			
43	43	11890	Troy	TX0140037	1,505	Construct a new water supply municipal well system. The project will also include the construction of the associated ground storage tanks, water pump station and water main installation as required to connect to the existing distribution system. This project also includes the preparation of an Asset Management Plan.	PADC	$2,135,000.00		Yes-BC	$250,000.00	
44	42	11957	Brookesmith SUD	TX0250004	8,750	Purchase and install 3,045 radio read meters.	PDC	$975,000.00		Yes-BC	$975,000.00	
45	36	11945	Gordon	TX1820007	744	Installing a new microfilter at the existing water treatment plant, and replacing old and deteriorated water lines throughout the City which have caused numerous water leaks. The water treatment plant has exceeded 85% of production capacity and is required by TCEQ to add more production capacity, and significant water loss is due to deteriorated and leaking raw water lines and treated distribution water lines.	PDC	$1,196,000.00	30%	Yes-BC	$1,196,000.00	
46	36	11895	San Angelo	TX2260001	96,177	In order to support current and future water supply needs, the City of San Angelo is pursuing the implementation of a potable reuse project.	PDC	$150,000,000.00		Yes-BC	$150,000,000.00	
47	33	11850	Rotan	TX0760002	2,763	Install 14 miles of new 12-inch PVC water line to replace existing and ground storage tank.	PDC	$3,880,000.00	30%	Yes-BC	$2,840,000.00	
48	31	11970	Gladewater	TX0920001	7,812	Rehabilitate the existing raw water intake structure. Rehabilitate two existing elevated storage tanks. Prepare and implement an Asset Management Plan.	PDC	$1,412,302.00				

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Public Water System												
49	30	12020	R M S WSC	TX1550136	960	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve RMS WSC, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet RMS WSC's average day demands; RMS WSC's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$3,040,000.00		Yes-BC	$3,040,000.00	
50	26	12017	Mount Calm	TX1090005	324	FHLM WSC proposes to construct a regional groundwater system Falls, Hill, Limestone and McLennan Counties to serve Mount Calm, as well as connect 12 other groundwater systems that participated in the TWDB-FHLM Regional Water Study. This regional project involves drilling a well field (2.54 MGD) in the southwest corner of Limestone County in outcrop of Carrizo-Wilcox Aquifer; constructing regional transmission lines, booster pump stations and ground storage tanks from the well field along FM-39 and Hwy. 84 to serve these entities. This regional supply would be used to meet Mount Calm's average day demands; Mount Calm's existing wells that exceed the arsenic MCL would only be used for their water demands greater than average day. FHLM WSC also plans to develop an asset management plan for this regional system.	PADC	$970,000.00	50%	Yes-BC	$19,400.00	
51	26	11882	Wolfe City	TX1160005	1,795	Re-coat existing tank. Replace all existing water lines with new 6" and 8" water lines. Install one or two new wells.	PDC	$8,130,000.00	70%	Yes-BC	$7,317,000.00	
52	24	11847	Vernon	TX2440001	10,874	Install a new 16 mile 24 inch PVC pipeline.	PADC	$11,000,000.00	50%	Yes-BC	$11,000,000.00	
53	22	11972	Guadalupe Blanco RA	TX0460239	100,000	Aeration and granulated activated carbon (GAC) DPB control.	DC	$11,934,585.00				
54	21	11955	Carbon	TX0670015	272	Pump Station Improvements to increase the storage and pumping capacities to meet compliance.	PDC	$425,000.00	70%	Yes-BC	$425,000.00	
55	20	12002	Dario V. Guerra, III, dba Derby Ing.	TX0820016	113	Construct a new well at a suitable location to replace the existing water well and also to build redundancy in the system.	PADC	$200,000.00				
56	20	12042	Bracken Christian School of Bulverde	TX0460201	500	Convert PWS 460201 to a customer of CCN 10692.	C	$59,000.00				

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Public Water System												
63	14	11935	New Deal	TX1520015	794	The project is to replace the deteriorated 6-inch Asbestos Cement line from the well field 3.3 miles northeast of the City with new 8-inch C-900 PVC or HDPE and to install a standpipe water storage tank in the southwest quadrant of the City. The new pipe will reduce the friction loss considerably compared to the existing line, as well as prevent leaks on the existing line. It will take approximately 18,000 linear feet of pipe to replace the deteriorated line. The standpipe will stabilize the water pressure in the southwest area of the City which is located on the west side of the interstate.	C	$1,063,000.00		Yes-BC	$692,000.00	
67	14	12025	Waco	TX1550008	127,796	This project will implement advanced metering infrastructure and acoustic leak detection to the retail and wholesale customers of the City of Waco	C	$15,000,000.00	30%	Yes-BC	$15,000,000.00	
80	12	12006	El Paso PSB	TX0710002	823,862	El Paso Water Utility proposed to construct a potable water system for the homes of the residents of the "Four Streets" section of the Canutillo Colonia, to bring fresh water that meets health standards. This Canutillo area's current "systems" are all privately owned. Testing has determined that there are cases of contamination of the local well water from area wastewater systems.	C	$885,369.00	30%			
83	11	11962	Beaver Creek WCID # 1		872	The existing privately owned water wells within the Beaver Creek WCID#1 (District) service area have been deemed a health nuisance by the Department of State Health Services. After completion of the EDAP Planning Program, the District proposes to construct a first time service water system in an effort to provide a source of safe drinking water to its residents.	C	$6,486,462.00	70%			
84	11	12021	River Oaks	TX2200069	7,437	The majority of the city's water lines were installed in the 1940's and the 1950's that consisted mostly of cast iron, galvanized iron and asbestos cement. The lines are old and deteriorating that causes leaks and poor water quality due to the rust and corrosion associated with cast iron and galvanized piping. The City's water plan was upgraded back in 1993 and is in need of emergency water plan project to rebuild the Clarifier.	C	$7,641,853.00		Yes-BC	$7,641,853.00	
85	11	11941	Kellyville-Berea WSC	TX1580003	1,116	Construct a new public water supply well and create and implement an Asset Management Plan.	C	$577,500.00	30%			
97	10	11849	San Juan	TX1080010	24,166	Rehabilitate and upgrade existing plant to current standards.	C	$6,975,000.00	30%			
108	6	11978	McAllen	TX1080006	140,000	The City of McAllen's South Water Treatment Plant utilizes two (2) treatment trains. The north Train is rated at 37 MGD. The south train is rated at 8 MGD. This project would expand capacity at the south treatment train by an additional 4 MGD. The project also includes the construction of an 18" - 24" Raw Water Supply Line.	C	$6,800,000.00				

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Public Water System												
130	1	12010	Harris Co MUD # 167	TX1012842	15,000	Installation of "smart" water meters to meet the district goals of water efficiency goals. This would include the preparation of an asset management plan.	C	$2,000,000.00		Yes-BC	$2,000,000.00	
140	0	11938	Liberty	TX1460003	8,397	Rehabilitate well site including the replacement or rehabilitation of well and distribution pumps, well casing/screening and ground storage tank.	C	$2,866,250.00				
141	0	11939	Liberty	TX1460003	8,397	Construct a 150,000 gallon elevated tank in the vicinity of the low pressure to offset the losses due to higher elevations in this area.	C	$1,430,000.00				
142	0	12056	Liberty	TX1460003	8,397	Extend or enlarge existing waterlines to provide service to additional areas within the city limits and install booster pump stations to improve pressure between water planes.	C	$6,311,500.00				
148	0	11894	San Antonio Water System	TX0150018	1,659,593	This project includes the replacement of electrical switchgear, replace the chlorine gas system with on-site sodium hypochlorite generation system, upgrade the fluoridation equipment, and replace valves and yard piping.	C	$14,668,080.00				
149	0	11983	San Antonio Water System	TX150018	1,659,593	Zarzamora and LaRosa Pump Station Upgrade.	C	$7,105,000.00				
Public Water System Total		**70**						**$504,169,600.85**	**30**	**0**	**$250,700,103.00**	
Total		**70**						**$504,169,600.85**	**30**	**0**	**$250,700,103.00**	

Phase(s): P-Planning; A-Acquisition; D-Design; C-Construction
Green Type: BC-Business Case; CE-Categorically Eligible; Comb-Project consists of both CE and BC components

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Public Water System											
3	147	11987	West Wise SUD	TX2490016	Backwash from the filtration system will be recycled back to the head of the plant. Upgrades to the water treatment system will reduce the amount of water lost due to flushing in the distribution system to reduce water age and DBP levels in the distribution system. All pumps and motors will be provided using NEMA premium efficiency pumps and motors.	PADC	$15,867,000.00		Yes-BC	$15,139,000.00	X
4	141	11871	Gorman	TX0670003	Categorically eligible: Replace existing meters with AMR; Business Case Eligible: CIP Replacement to reduce water loss.	C	$1,825,195.00	50%	Yes-BC	$2,100,000.00	X
9	96	11967	Eden	TX0480001	The reject water from the desalination system will be used for beneficial land application, minimizing the use of City water for irrigation. Replacement of severely deteriorated water lines throughout the City will reduce water loss and energy used for high service pumping into the distribution system.	PDC	$9,115,000.00		Yes-BC	$9,115,000.00	X
11	83	12014	Lueders	TX1270007	The green elements of the project include an automatic meter reading system.	PDC	$499,500.00	70%	Yes-BC	$80,000.00	
16	77	11892	Smyer	TX1100010	SCADA system for water treatment system and new 6 inch water line reduce friction loss and reduce water loss.	PDC	$466,000.00		Yes-BC	$135,000.00	
17	76	11879	Anthony	TX0710001	Retrofitting 950 existing meters with automatic meter reading (AMR) devices.	C	$7,449,947.00	50%	Yes-BC	$1,114,500.00	
18	73	12018	Prairie Hill WSC	TX1470011	According to TWDB-0161 ('Clean Water and Drinking Water SRF 20% Green Project Reserve: Guidance for Determining Project Eligibility'), the proposed regional groundwater system for the Falls, Hill, Limestone and McLennan (FHLM) project participants is captured under the 'total/integrated water resources management planning' category of green projects (as noted under TWDB-0161 Part B DWSRF Section 4.2-1)	PADC	$3,040,000.00		Yes-BC	$3,040,000.00	X
19	72	11961	Rolling Hills WS	TX1110032	Autoread meters will save gas, time and allow us to monitor the water going through the system and replacement of the 44-year old water lines will reduce water losses. The replacement of existing pumps and motors with NEMA premium efficiency pumps and motors will save energy. The treatment system to reduce TTHMs will save water by reducing the need to flush the distribution system.	PDC	$2,455,000.00	70%	Yes-BC	$1,227,000.00	X
20	70	11952	Dublin	TX0720001	Green elements include replacing old, leaky water distribution lines including leaking, uncased railroad crossings.	PADC	$5,420,000.00		Yes-BC	$1,626,000.00	X

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Public Water System											
24	69	11976	La Feria	TX0310003	Proposed project consists of adding the following green elements: VFD for Pump 2 High Service Pump Building VFD for Pump No. 3 High Service Pump Building VFD for 10 HP Raw Water Pump VFD for 20 HP Raw Water Pump VFD for 30 HP Raw Water Pump Variable Frequency Drives (VFD) are proven technology that allows to operate at a desired motor speed with reduced power demand. Please see attached green business case in "Additional Attachments." Additionally, the City proposes to replace approximately 5,310 LF of AC line with PVC pipe. Asbestos cement pipe offers a higher coefficient of friction than PVC pipe; therefore, the City anticipates a reduction in power to pump. Furthermore, asbestos cement poses a health hazard to public.	PDC	$3,147,160.85	30%	Yes-BC	$503,150.00	
25	68	11946	Fort Griffin SUD	TX2090005	Replacing existing local read meters with radio read meters.	PADC	$3,657,500.00		Yes-BC	$500,000.00	
26	66	11960	Barton WSC	TX0720013	With the proposed improvements, the WSC would not need to flush the system as frequently which would reduce the pumps running time and reduce water loss.	PADC	$1,500,000.00		Yes-BC	$1,500,000.00	X
27	66	11877	Bronte	TX0410001	The new WTP will include solar panels and a 50KW wind turbine.	PADC	$7,823,961.00	30%	Yes-BC	$575,000.00	
28	65	11848	San Saba	TX2060001	Replacing leaking water lines.	C	$1,700,000.00	30%	Yes-BC	$1,700,000.00	X
29	64	12013	Leroy-Tours-Gerald WSC	TX1550027	According to TWDB-0161 ('Clean Water and Drinking Water SRF 20% Green Project Reserve: Guidance for Determining Project Eligibility'), the proposed regional groundwater system for the Falls, Hill, Limestone and McLennan (FHLM) project participants is captured under the 'total/integrated water resources management planning' category of green projects (as noted under TWDB-0161 Part B DWSRF Section 4.2-1)	PADC	$2,200,000.00		Yes-BC	$2,200,000.00	X
30	64	12004	EOL WSC	TX1550025	According to TWDB-0161 ('Clean Water and Drinking Water SRF 20% Green Project Reserve: Guidance for Determining Project Eligibility'), the proposed regional groundwater system for the Falls, Hill, Limestone and McLennan (FHLM) project participants is captured under the 'total/integrated water resources management planning' category of green projects (as noted under TWDB-0161 Part B DWSRF Section 4.2-1)	PADC	$3,880,000.00		Yes-BC	$3,880,000.00	X

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Public Water System											
33	62	11900	Nueces County	TX1780050	Currently, the water system does not have a fully functional water meter which is detrimental in resolving the extent of water waste. A new water meter will enable CP2WSC to assess the water loss and take preventative measures to reduce percentage of loss. New advanced water meters will be installed at each individual connection.	AC	$1,584,500.00	70%	Yes-BC	$50,000.00	
34	56	11982	Rogers	TX0140004	The proposed water system pump motors will be rated high efficiency motors.	PADC	$5,831,000.00		Yes-BC	$30,000.00	
35	54	11993	Axtell WSC	TX1550016	According to TWDB-0161 ('Clean Water and Drinking Water SRF 20% Green Project Reserve: Guidance for Determining Project Eligibility'), the proposed regional groundwater system for the Falls, Hill, Limestone and McLennan (FHLM) project participants is captured under the 'total/integrated water resources management planning' category of green projects (as noted under TWDB-0161 Part B DWSRF Section 4.2-1)	PADC	$3,460,000.00		Yes-BC	$69,200.00	
38	50	11995	Birome WSC	TX1090017	According to TWDB-0161 ('Clean Water and Drinking Water SRF 20% Green Project Reserve: Guidance for Determining Project Eligibility'), the proposed regional groundwater system for the Falls, Hill, Limestone and McLennan (FHLM) project participants is captured under the 'total/integrated water resources management planning' category of green projects (as noted under TWDB-0161 Part B DWSRF Section 4.2-1)	PADC	$1,780,000.00		Yes-BC	$1,780,000.00	X
40	49	12046	Moores Water System	TX1550127	According to TWDB-0161 ('Clean Water and Drinking Water SRF 20% Green Project Reserve: Guidance for Determining Project Eligibility'), the proposed regional groundwater system for the Falls, Hill, Limestone and McLennan (FHLM) project participants is captured under the 'total/integrated water resources management planning' category of green projects (as noted under TWDB-0161 Part B DWSRF Section 4.2-1)	PADC	$970,000.00		Yes-BC	$970,000.00	X
41	48	12015	M S WSC	TX1550037	According to TWDB-0161 ('Clean Water and Drinking Water SRF 20% Green Project Reserve: Guidance for Determining Project Eligibility'), the proposed regional groundwater system for the Falls, Hill, Limestone and McLennan (FHLM) project participants is captured under the 'total/integrated water resources management planning' category of green projects (as noted under TWDB-0161 Part B DWSRF Section 4.2-1)	PADC	$970,000.00		Yes-BC	$970,000.00	X
43	43	11890	Troy	TX0140037	Solar panels for well station controls and lighting.	PADC	$2,135,000.00		Yes-BC	$250,000.00	
44	42	11957	Brookesmith SUD	TX0250004	The proposed project consists of installing radio-read meters to replace old outdated and inaccurate meters.	PDC	$975,000.00		Yes-BC	$975,000.00	X

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Rank	Points	PIF #	Entity	PWS ID	Green Description	Eligible Phase(s)	Project Cost	Disadv %	Green Type	GPR	Subsidized Green
Public Water System											
45	36	11945	Gordon	TX1820007	This project will consist of replacing old deteriorated raw water lines and treated water distribution lines throughout the City, which have caused numerous water leaks. The green elements of the proposed project will consist of water efficiency which will significantly reduce the systems water loss. With the reduction in water loss, the City will not need to pump as much water to meet the current water demands. In 2011, the City had a water loss of approximately 13.6 million gallons of treated water.	PDC	$1,196,000.00	30%	Yes-BC	$1,196,000.00	X
46	36	11895	San Angelo	TX2260001	Proposed project is based on developing a direct potable reuse system to create a new raw water supply for the City.	PDC	$150,000,000.00		Yes-BC	$150,000,000.00	X
47	33	11850	Rotan	TX0760002	The old leaking water lines will be replaced with new PVC lines.	PDC	$3,880,000.00	30%	Yes-BC	$2,840,000.00	X
49	30	12020	R M S WSC	TX1550136	According to TWDB-0161 ('Clean Water and Drinking Water SRF 20% Green Project Reserve: Guidance for Determining Project Eligibility'), the proposed regional groundwater system for the Falls, Hill, Limestone and McLennan (FHLM) project participants is captured under the 'total/integrated water resources management planning' category of green projects (as noted under TWDB-0161 Part B DWSRF Section 4.2-1)	PADC	$3,040,000.00		Yes-BC	$3,040,000.00	X
50	26	12017	Mount Calm	TX1090005	According to TWDB-0161 ('Clean Water and Drinking Water SRF 20% Green Project Reserve: Guidance for Determining Project Eligibility'), the proposed regional groundwater system for the Falls, Hill, Limestone and McLennan (FHLM) project participants is captured under the 'total/integrated water resources management planning' category of green projects (as noted under TWDB-0161 Part B DWSRF Section 4.2-1)	PADC	$970,000.00	50%	Yes-BC	$19,400.00	
51	26	11882	Wolfe City	TX1160005	The proposed project consists of replacing all of the City's existing water lines which will reduce water loss.	PDC	$8,130,000.00	70%	Yes-BC	$7,317,000.00	X
52	24	11847	Vernon	TX2440001	The existing well water supply line was installed in the 1950's and has numerous leaks. It is proposed to replace this line to eliminate this unnecessary water loss.	PADC	$11,000,000.00	50%	Yes-BC	$11,000,000.00	X
54	21	11955	Carbon	TX0670015	Installation of a SCADA system will enable the City to detect leaks sooner and reduce water loss	PDC	$425,000.00	70%	Yes-BC	$425,000.00	X
63	14	11935	New Deal	TX1520015	Replace the deteriorated 6-inch water main with new 8-inch water line. The new water line will decrease the power consumption to pump the same volume for the City. The new water line will decrease the friction loss, thus decreasing the power consumption to pump the water to the elevated storage tank. The new line will also eliminate the current water loss (loss of over 4M gallons in 2011).	C	$1,063,000.00		Yes-BC	$692,000.00	X

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Public Water System											
67	14	12025	Waco	TX1550008	TWDB-0161 in Section 2.2-3 states that a Green Project includes "Automatic meter reading systems (AMR)" including Advanced Metering Infrastructure (AMI) and Smart Meters. This project will seek to procure and implement AMI throughout the Waco Water Distribution System coupled with Automated Leak Detection.	C	$15,000,000.00	30%	Yes-BC	$15,000,000.00	X
84	11	12021	River Oaks	TX2200069	In accordance to TWDB criteria that qualifies and identified Green Project we have listed the following: (A) the dramatic reduction in water leaks which will reduce pumping and electrical costs; (B) the construction of water resources by replacement of old cast iron & galvanized water lines installed in the 1940 & 1950 periods, so as to reduce leakage; (C) improved water quality in that the old lines cause excessive turbid discolored water and possible health issues to consumers; (D) the proposed new water distribution lines will remove the environmental issues caused by over 60-years of chemical & mineral deposits within the old water mains. Likewise, the capacity of old cast iron mains have been reduced up to 60% due to 60-years of collective chemical corrosion deposits within the piping.	C	$7,641,853.00		Yes-BC	$7,641,853.00	X
130	1	12010	Harris Co MUD # 167	TX1012842	Replacement of existing water meters with smart meters to gain better water efficiency and quicker leak detection. As shown TWDB-0161, Part B - DWSRF, 2.2-3.	C	$2,000,000.00		Yes-BC	$2,000,000.00	X
Public Water System Total		**36**					**$292,097,616.85**	**15**	**0**	**$250,700,103.00**	
Total		**36**					**$292,097,616.85**	**15**	**0**	**$250,700,103.00**	

Phase(s): P-Planning; A-Acquisition; D-Design; C-Construction
Green Type: BC-Business Case; CE-Categorically Eligible; Comb-Project consists of both CE and BC components