

**WaterSMART Grants: Small-Scale Water Efficiency Projects for FY 2021  
FUNDING OPPORTUNITY NO. R21AS00257**



## **Montoya Main Lateral Concrete Lining Project: Phase II**

**PROJECT CATEGORY: Canal Lining / Piping**

**TOTAL PROJECT COST: \$197,784**

**USBR GRANT REQUEST: \$75,000**

**Applicant**

**El Paso County Water Improvement District No. 1  
13247 Alameda Avenue, Clint, Texas 79836**

**Project Manager**

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# I TECHNICAL PROPOSAL AND EVALUATION CRITERIA

## A. Executive Summary

**Date:** March 10, 2020  
**Applicant Name:** El Paso County Water Improvement District No. 1  
**City, County, State:** El Paso, El Paso County, Texas  
**Applicant Category:** Category A

### Project Summary

The El Paso County Water Improvement District No. 1, located in El Paso County, Texas, will concrete line 2,700 feet of the Montoya Main Lateral using shotcrete reinforced by prefabricated steel rebar framework. The project has a life expectancy of 50 years and is expected to result in annual water savings of 36 acre-feet. The Project is included in the 2017 Texas State Water Plan and received substantial support from stakeholders, including the City of El Paso and local organizations. Additional benefits will also be achieved as part of the project, including advancing the construction of a recreational trail on the canal banks which will also serve as a safe route to school.

### Estimated Project Schedule

The project will be accomplished within the two-year allowance. The construction of the project will take 15 months from the expected date of funding authorization (January 2022). Concrete lining construction will take 6 months beginning on October of 2022 through March of 2023. Evaluation and final report preparation will take an additional month. The proposed project completion date is April 30, 2023.

### Federal Facility

The El Paso County Water Improvement District No. 1 (EPCWID) lies within Reclamation's Upper Colorado Region. The District canal system was constructed as part of Reclamation's Rio Grande Project and relies on Reclamation facilities for water delivery and storage.

## B. Project Location

The Montoya Main Concrete Lining Project: Phase II is located within the City of El Paso, El Paso County, Texas. The project linear length begins at latitude  $31^{\circ}51'24.8''N$  and longitude  $106^{\circ}35'52.3''W$  (31.856892, -106.597852) and ends at latitude  $31^{\circ}51'07.3''N$  and longitude  $106^{\circ}35'24.4''W$  (31.852036, -106.590119). A location map is available for reference in Figure 1.

Figure 1. Project Location Map



### **C. Project Description and Milestones**

The Montoya Main Lateral is an irrigation water conveyance channel with a design capacity of 120 cubic feet per second serving EPCWID's Unit 6B. The measured average (5-year) cumulative water volume conveyed in a full allocation year at the Montoya Main Lateral is approximately 10,114 acre-feet. Water losses at the Montoya Main Lateral are lost primarily by seepage. The Project will conserve water currently lost to seepage by concrete lining 2,700 feet of the earthen canal.

#### **Task 1. Environmental and Cultural Compliance**

The objective of this task is to perform necessary environmental and cultural compliance work. Per Reclamation staff from the Albuquerque Area Office, it is expected that completing a NEPA Categorical Exclusion Checklist is sufficient for compliance, in a manner similar to Phase I of the Montoya Main Concrete Lining Project (Contract No. R19AP00228). Compliance work includes completing the Section 106 review process with the Texas Historical Commission (SHPO) and issuing Clean Water Act (CWA) construction notices. All compliance activities will be completed prior to any ground-disturbing activities.

#### **Task 2. Procurement of Supplies and Materials**

EPCWID will solicit competitive sealed bids for shotcrete and steel rebar framework. All other materials and supplies will be procured using the USBR-approved EPCWID 2020 Purchasing Policy. Public notices will conform to the requirements of Subchapter 1 of Chapter 49 of the Texas Water Code and provisions in Appendix 11 to 2 CFR Subtitle A Chapter 2 Part 200 – Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards. EPCWID expects that no purchase will be made for the Project that will exceed the Simplified Acquisition Threshold as described in 2 CFR §200.318 (General Procurement Standards).

#### **Task 3. Concrete Lining Construction**

EPCWID will concrete line 2,700 feet of the Montoya Main Lateral. The Montoya Main Lateral is a trapezoidal canal with designed concrete lined dimensions of a 5-foot bottom, 22-foot cross-section, and 1:1 bank slopes. Previous concrete lining work at the Montoya Main Lateral (USBR Contract No. R19AP00228) used these engineering design and construction specifications and will be used in the proposed Project.

All construction work (including earthwork and soil compaction) will be performed by trained employees using EPCWID-owned equipment. 4000psi shotcrete (ASTM C94) will be sprayed pneumatically at 4-inch thickness and reinforced using prefabricated steel rebar framework (ASTM A1064). Geofabric liner will be laid below rebar and shotcrete for stability (AASHTO M288-15 Class 3). The shotcrete is cured immediately after drying (AASHTO M-148 Class A).

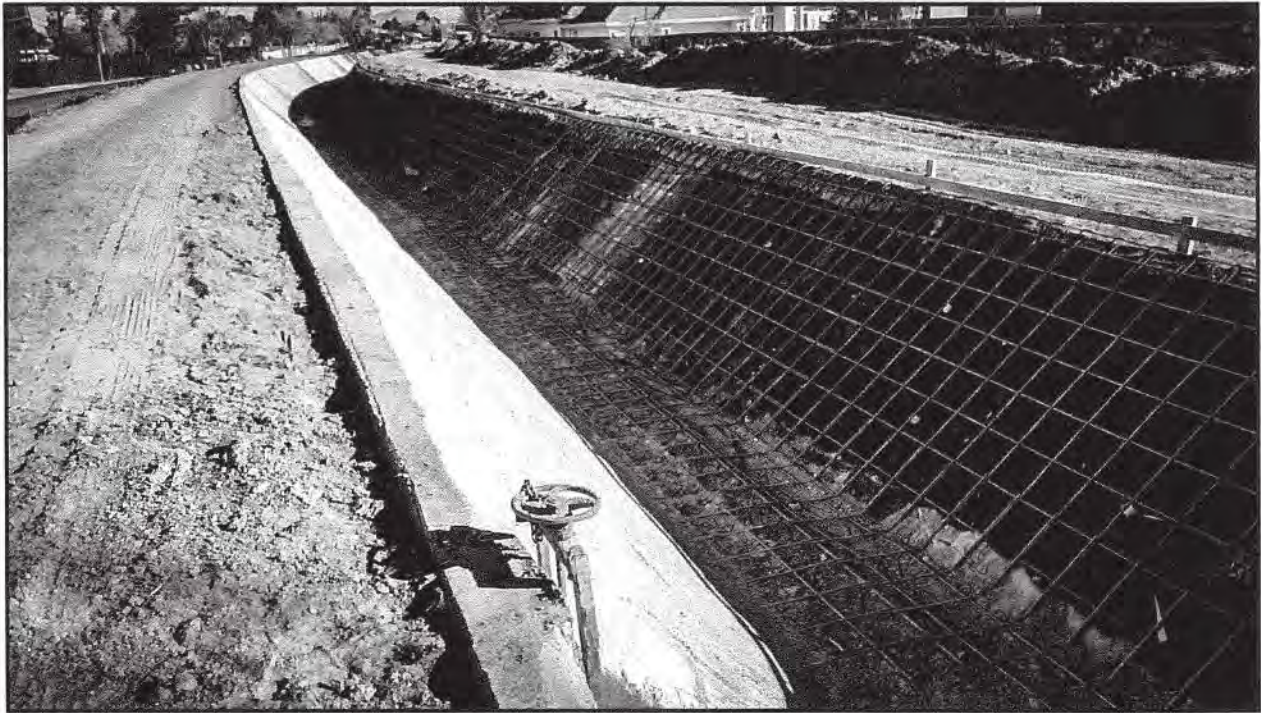
#### **Task 4. Grant Administration, Reporting, and Technical Support**

EPCWID staff will complete administrative, grant reporting, and technical work necessary to fulfill contractual obligations as required by Reclamation. Work shall include but not be limited to developing two performance reports and a final report as specified in Sections F.3.1, F.3.2, and F.3.3 of the FY2021 WaterSMART Small Scale Water Efficiency Projects FOA and the technical content required for them.

**Figure 2. Shotcrete Work in Phase I of the Montoya Main Concrete Lining Project**



**Figure 3. Cured Shotcrete and Liner and Steel Rebar Framework Ready for Shotcrete**



## D. Evaluation Criteria

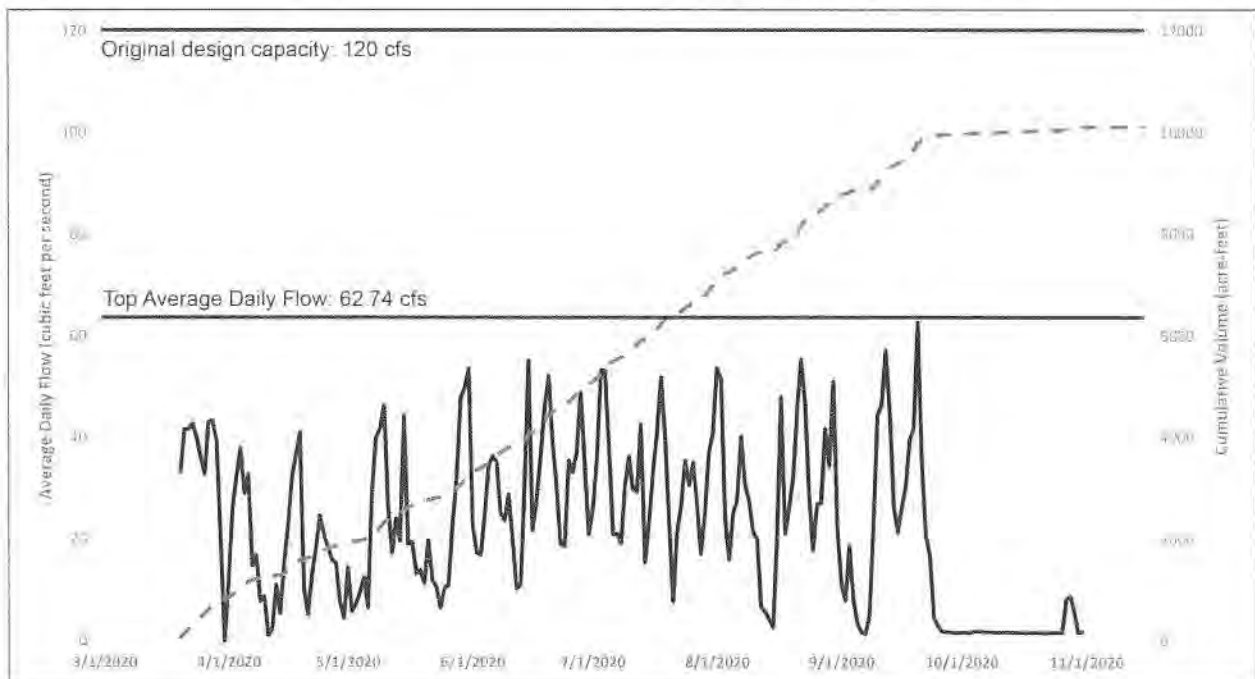
### D.1. Evaluation Criterion A – Project Benefits (35 points)

Up to 35 points may be awarded based upon evaluation of the benefits that are expected to result from implementing the proposed project. This criterion considers a variety of project benefits, including the significance of the anticipated water management benefits and the public benefits of the project. This criterion prioritizes projects that modernize existing infrastructure in order to address water reliability concerns, including making water available for multiple beneficial uses and resolving water related conflict in the region.

**Describe the expected benefits and outcomes of implementing the proposed project.**

*What are the benefits to the applicant's water supply delivery system?*

**Figure 4. Montoya Main Lateral Average Daily Flow and Cumulative Volume (2020)**



Sediment accumulation has negatively impacted EPCWID's ability to convey Rio Grande Project water via the Montoya Main Lateral. Sediment accumulation reduces irrigation efficiency and can cause canal breaks, leading to preventable water losses and increased flood risk (see flood risk analysis in Figure 11, found later in this document). Measured using EPCWID's telemetry system (<https://epcwid.org/telemetry>), the maximum average daily flow at the Montoya Main Lateral during the 2020 irrigation season was 62.74 cubic feet per second. Water flow is measured (via SCADA) and transmitted in 15-minute intervals. The maximum measured interval flow level at the Montoya Main Heading was 106 cubic feet per second, and water flow exceeding 75 cubic feet per second was observed in only 125 out of 13,847 measurements from March 1, 2020 through October 30, 2020. The original design flow capacity of the Montoya Main Lateral is 120 cubic feet per second, and the proposed concrete lining work will restore the original conveyance capacity.

***Extent to which the proposed project improves overall water supply reliability.***

Approximately 36 acre-feet of water per year normally lost to seepage can be conserved by concrete lining the proposed section of the Montoya Main Lateral. The following calculations were used to estimate seepage losses:

$$((78.55+66.50)/2) \text{ acre-feet per mile per year} * 0.5114 \text{ miles} = 36.32 \text{ acre-feet per year}$$

Estimated water conservation rates used for the Montoya Main Lateral are consistent with observations from seepage studies performed across EPCWID’s canal system by Texas A&M University (Sheng & Brown 2002). Water loss estimates are derived from studies performed in canals that are proportionally comparable to the Montoya Lateral and have similarly-calculable conveyed average cumulative water volume (10,000 acre-feet per year) and similar hydrologic features and soil profiles.

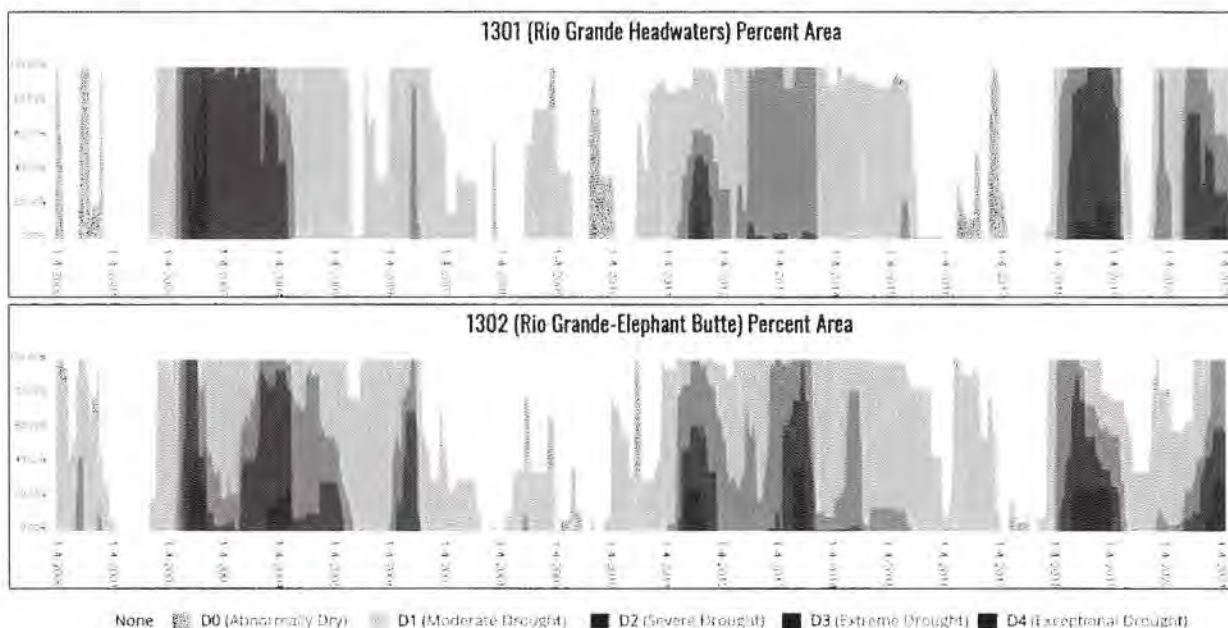
With a life expectancy of 50 years, the proposed project has a conservation return on investment of \$108.91 per acre-foot of water. The following calculations were used to estimate conservation return on investment:

$$36.32 \text{ acre-feet per year} * 50 \text{ years} = 1,816 \text{ acre-feet}$$
$$\$197,784 / 1,816 \text{ acre-feet} = \$108.91 \text{ per acre-foot}$$

***The expected geographic scope benefits from the proposed project.***

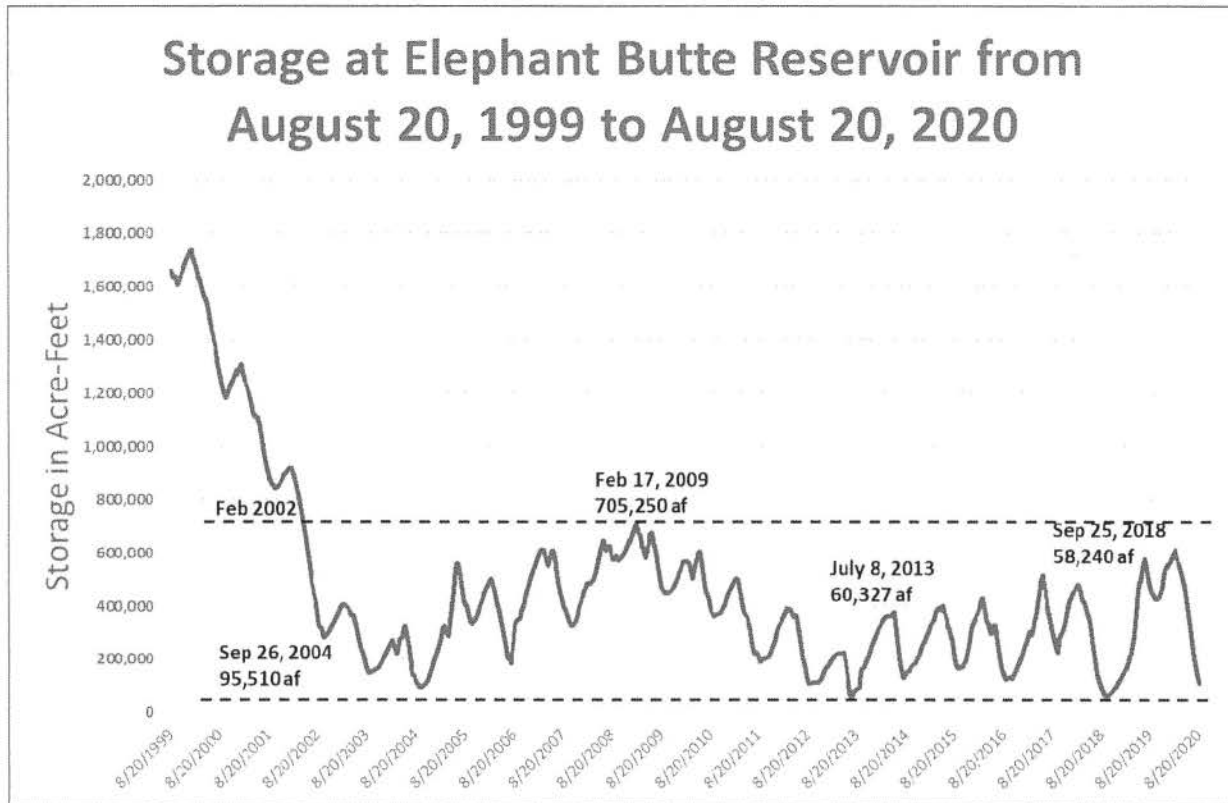
It is expected that the proposed project will lead to local benefits to EPCWID’s irrigation system in the form of efficiency improvements and decreased maintenance. Basin-wide benefits are also expected: as irrigation water demand is met by a more efficient system, EPCWID will not require using as large of an annual allocation of Rio Grande Project water, thereby allowing storage in Elephant Butte and Caballo Reservoirs to accumulate and provide critical water in drought years when unmet water demands are highest.

**Figure 5: U.S. Drought Monitor for the Upper Rio Grande from 2000 to 2021**





**Figure 6. Water Storage Thresholds at Elephant Butte Reservoir from 1999 to 2020**



Surface water users in El Paso have been experiencing perpetual drought conditions for the last 15 years. Despite a higher-than-average snowpack in 2019, moderate to exceptional drought conditions at the Rio Grande headwaters and tributaries in the states of Colorado and New Mexico were present during all of 2020 and are expected to continue for 2021.

The Rio Grande headwaters and tributaries are located in a climatic regime that is independent from the climatic regime of Far West Texas. If a drought occurs in Colorado and/or New Mexico, then the El Paso area may be thrown into a drought-like scenario. The westernmost part of Texas, as well the headwaters and tributaries of the Rio Grande in Colorado and New Mexico from which the EPCWID’s water supply originates, have been experiencing drought conditions for much of the past two decades, with only 2005, 2008, 2016, 2017, and 2019 experiencing average or above-average spring runoff into Elephant Butte Reservoir.

In 2018, Elephant Butte Reservoir reached near-record-low levels at about 3% capacity, with just 62,573 acre-feet of water in storage in the month of September (total conservation capacity is 1,973,358 acre-feet). About 45,000 acre-feet (70%) of the September 2018 storage is attributed to water conserved and carried over by EPCWID in 2017 in accordance with the 2008 Operating Agreement (currently in litigation). Elephant Butte and Caballo Reservoirs have been near or below 30% of the combined storage capacity of 2.23 million acre-feet since 2010. There was very limited carryover for the 2021 irrigation season and storage levels at Elephant Butte Reservoir are currently at 8% or less.

***Extent to which the proposed project will increase collaboration and information sharing among water managers in the region.***

The proposed project was selected as a priority due to cost-effective water conservation benefits and additional benefits to the community. EPCWID works with municipal and irrigation water managers and transportation managers in the region and will showcase the synergistic impact that is made possible through small-scale concrete lining improvements. This approach was effective during Phase I of the Montoya Main Concrete Lining Project (USBR Contract No. R19AP00228), and the proposed Phase II Project prioritized as a result of positive feedback received from the City of El Paso and other partners.

***Any anticipated positive impacts/benefits to local sectors and economies (e.g., agriculture, environment, recreation, tourism).***

**Paso del Norte Trail and Montoya Lateral Safes Routes to School Project**

The Montoya Lateral is a designated trail spur of the Paso del Norte Trail (PDN Trail). The PDN Trail is a county-wide, 68-mile mixed-use trail intended to become an attraction that connects communities, celebrates El Paso's history and culture, highlights the Rio Grande and its regional impact on agriculture and development, promotes healthy and active living, and catalyzes economic development. Learn more at: <https://www.pasodelnortetrail.org>. EPCWID works with multiple stakeholders to develop sections of the PDN Trail in waterways. Concrete lining a canal is an engineering and safety requirement to build any trail on the canal banks.

EPCWID will continue working with the City of El Paso, the Paso del Norte Health Foundation, and the El Paso Independent School District to allocate and/or secure additional funding to construct additional segments of the trail on the banks of the Montoya Main Lateral. EPCWID is already working with these partners to construct the trail. The trail was made possible thanks to Reclamation funding from Phase I of the Montoya Main Concrete Lining Project (USBR Contract No. R19AP00228). Please see statements of support in Appendix B for additional information.

**Figure 7. Ongoing Concrete Lining and Trail Construction at Montoya Main Lateral**



*Extent to which the project will complement work done in coordination with NRCS in the area (e.g., with a direct connection to the district's water supply). Describe any on-farm efficiency work that is currently being completed or is anticipated to be completed in the future using NRCS assistance through EQIP or other programs.*

EPCWID has a history of collaboration with the Natural Resources Conservation Service (NRCS) program and periodically hosts local work group management meetings at EPCWID offices. The Environmental Quality Incentives Program (EQIP) 2020 El Paso District Priorities include practices that can enhance water availability and efficient irrigation systems.

**Cropland Priority 1 Excess/Insufficient Water - Inefficient use of irrigation water**

As part of the proposed Project, EPCWID will adjust headgates (not replace) currently used to deliver irrigation water. EPCWID already refers potential NRCS EQIP applicants to the local NRCS office and provides technical assistance for new applications. Previous concrete lining projects performed by the EPCWID facilitated NRCS EQIP-eligible improvements such as the installation of turnout flow meters, the concrete lining of private irrigation ditches, and installing low-cost, on-farm soil moisture sensors.

**D.2. Evaluation Criterion B – Planning Efforts Supporting Project (35 points)**

*Up to 35 points may be awarded based on the extent to which the proposed on-the-ground project is supported by an applicant's existing water management plan, water conservation plan, System Optimization Review, or identified as part of another planning effort led by the applicant. This criterion prioritizes projects that are identified through local planning efforts and meet local needs.*

*Describe how your project is supported by an existing planning effort.*

**2019 Water Conservation Plan**

The proposed lining of the Montoya Main Lateral is a planned project included in EPCWID's 2019 Water Conservation Plan (WCP), which can be referenced at <https://www.epcwidl.org>. The WCP includes an internal System Optimization Review (SOR) summary, a 10-year plan prioritizing conservation and efficiency projects, and historical and current water use data.

**2017 Texas State Water Plan and 2021 Region E Far West Texas Water Plan**

The proposed project is listed under Water Management Strategy (WMS) E-45 in the 2017 Texas State Water Plan, which is developed at the state level by the Texas Water Development Board (TWDB). Improvements in the EPCWID irrigation water delivery system in WMS E-45 are estimated to conserve an aggregated 50,000 acre-feet of water per year. WMS E-45 can be referenced further at: <https://texasstatewaterplan.org/project/1777>

The proposed project is also included as part of a Recommended Water Management Strategy in the 2021 Region E Far West Texas Water Plan, which is developed by the Far West Texas Water Planning Group (FWTWPG). Projects prioritized in these water plans are eligible for state funding from the TWDB. The 2021 Far West Texas Water Plan can be referenced at: [http://westtexaswaterplanning.org/?page\\_id=214](http://westtexaswaterplanning.org/?page_id=214)

A Letter of Support from the FWTWPG for Phase I of the Project is included in Appendix B.

***Does the proposed project implement a goal or address a need or problem identified in the existing planning effort?***

The Project is an investment that is necessary to efficiently manage the EPCWID's delivery of Rio Grande Project water within a rapidly-urbanizing area with shared municipal and agricultural water users. In addition to conserving water normally lost to seepage, a major goal of the proposed project is to increase operational efficiency by mitigating the risk of spills and reducing maintenance in waterways located in developed areas. Concrete lining will allow EPCWID to address sediment build-up, debris, and water losses from spills that may affect irrigation water deliveries to agricultural operations that depend on Rio Grande Project water conveyed via the Montoya Main Lateral. The proposed project is listed among several projects needed to address these issues and are described in greater detail in the aforementioned water plans.

***Explain how the proposed project has been determined as a priority in the existing planning efforts as opposed to other potential projects/measures.***

EPCWID has limited sources of revenue and cannot immediately fund the majority of its planned water conservation and efficiency projects. EPCWID revenues decrease significantly during droughts, and, as stated previously, the El Paso region has been experiencing perpetual drought conditions for the last 15 years.

EPCWID proactively seeks to partner with other public entities to cost-share concrete lining projects when possible. EPCWID has worked with Reclamation to implement multiple projects prioritized in the State Water Plan. EPCWID also cost-shares concrete lining projects with the Texas Department of Transportation (TxDOT) and local partners to construct trails and facilitate the expansion of roadways at crossings and has engaged in three of such projects in the two years.

The proposed project was selected as a priority as part of the EPCWID's internal SOR process due to the rapid development of land adjacent to the Montoya Main Lateral. The values of properties surrounding the Montoya Main Lateral have increased and, consequently, potential liabilities and costs in the case of a spill event (see Figure 11). Based on interest and positive feedback from the community, the City of El Paso will contribute to the construction of a trail on the banks of the Montoya Main Lateral (once the concrete lining has been completed).

EPCWID believes that Reclamation's Small-Scale Water Efficiency Projects program is ideal to cost-share the concrete lining of the Montoya Main Lateral to conserve water and increase operational efficiency while bringing additional public benefits and simultaneously contributing to the reliability of the supply of Rio Grande Project water.

### **D.3. Evaluation Criterion C – Project Implementation (10 points)**

*Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates.*

#### **Task 1. Environmental and Cultural Compliance (February 2022 – July 2022)**

The purpose of this task is to perform environmental review and cultural compliance work necessary to complete the concrete lining project. Work includes but is not limited to:

- 1.1 Working with Reclamation to meet federal environmental and regulatory compliance requirements, including National Environmental Policy Act (NEPA) and National Historic Preservation Act (NHPA) compliance
- 1.2 Working with the Texas Historical Commission (SHPO) to meet historical and cultural compliance requirements, including reviewing findings from environmental, cultural, and historical compliance work and developing any additional documents and modifications necessary to adhere to federal, state, and local laws, regulations, and codes
- 1.3 Preparing a Stormwater Pollution Prevention Plan (SWPPP) and submitting a Notice of Intent (TPDES General Construction) to the Texas Commission on Environmental Quality (TCEQ)

**Expected Deliverables:** [1] Categorical Exclusion (CEC)  
[2] SHPO Compliance Notice  
[3] Stormwater Pollution Prevention Plan (SWPPP)  
[4] TPDES General Construction Notice

#### **Task 2. Procurement of Supplies and Materials (August 2022 – October 2022)**

The purpose of this task is to solicit quotes and purchase all materials needed for construction. Work includes but is not limited to:

- 2.1 Solicit quotes (RFQ) and select a vendor for a minimum of 773 cubic yards of shotcrete
- 2.2 Solicit quotes (RFQ) and select a vendor for 2,700 linear feet of steel rebar formwork
- 2.3 Purchase additional materials with strict compliance to applicable laws and regulations

**Expected Deliverables:** [5] Procurement and purchase records

#### **Task 3. Concrete Lining Construction (October 2022 – March 2023)**

The purpose of this task is to perform all necessary concrete lining construction work, which includes but is not limited to:

- 3.1 Fleet mobilization
- 3.2 Performing initial earth work, including excavation, dirt hauling,
- 3.3 Installing geofabric liner, steel formwork, and spraying and curing shotcrete (50%)
- 3.4 Installing geofabric liner, steel formwork, and spraying and curing shotcrete (100%)
- 3.4 Performing final earth work, including soil compaction, grading, and alignment
- 3.5 Fleet demobilization

**Expected Deliverables:** [6] Equipment Use Logs  
[7] Labor and fringe costs  
[8] Ground and aerial construction photography and video

**Task 4. Administration and Technical Support**

The purpose of this task is to perform grant administration, periodic reporting, and technical work necessary to complete the project. Work includes but is not limited to:

- 4.1 Developing Performance Report 1 and SF-425 Federal Financial Report for work performed from February 2022 through September 2022, or as specified in a resulting award contract from Reclamation
- 4.2 Developing Performance Report 2 and SF-425 Federal Financial Report for work performed from October 2022 through March 2023
- 4.3 Developing a Final Performance Report as specified in a resulting award contract from Reclamation for work performed throughout the entire performance period (February 2022 through April 2023).

**Figure 8. Project Timeline**

Task No.	Dates	2022												2023											
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
<b>Project Funding Award</b>	Jan 2022-																								
<b>Task 1.</b>	<b>Feb 2022 -</b>																								
<b>Environmental and Cultural Compliance</b>	<b>July 2022</b>																								
1.1 USBR NEPA Process (Notice to Proceed)																									
1.2 SHPO Consultation (Section 106)																									
1.3 CWA Compliance (SWPPP/ TCEQ Notice)																									
<b>Task 2.</b>	<b>Aug 2022-</b>																								
<b>Procurement of Supplies and Materials</b>	<b>Oct 2022</b>																								
2.1 Shotcrete RFQ & Selection																									
2.2 Steel Rebar RFQ & Selection																									
2.3 Purchasing Additional Materials																									
<b>Task 3.</b>	<b>Oct 2022 -</b>																								
<b>Concrete Lining Construction</b>	<b>Mar 2023</b>																								
3.1 Fleet Mobilization																									
3.2 Initial Earthwork and canal shaping																									
3.3 Concrete Lining (50%)																									
3.4 Concrete Lining (100%)																									
3.5 Final Earthwork and grading																									
3.6 Fleet Demobilization																									
<b>Task 4.</b>	<b>Nov 2021 -</b>																								
<b>Administration and Technical Support</b>	<b>April 2023</b>																								
4.1 Performance Report 1																									
4.2 Performance Report 2																									
4.3 Final Report																									

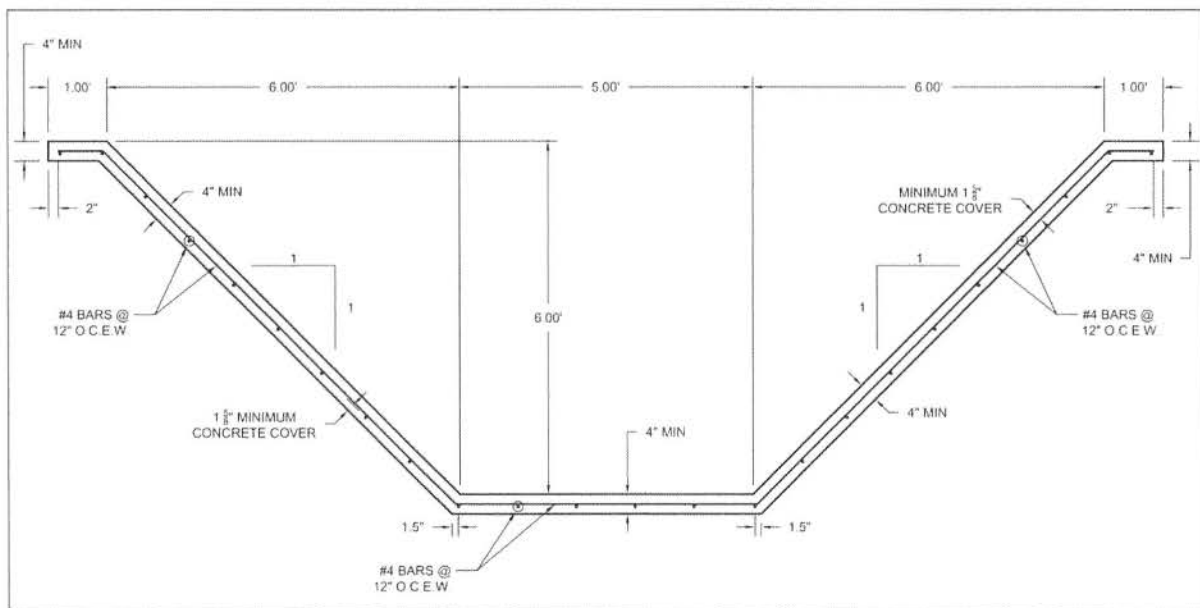
*Describe any new policies or administrative actions required to implement the project.*  
No new policies or administrative actions are required.

*Describe any permits that will be required, along with the process for obtaining such permits.*  
EPCWID owns, operates, and maintains the Project site and right-of-way. There are no required permits or approvals necessary for this Project.

*Identify and describe any engineering or design work performed specifically in support of the proposed project.*

Proposed concrete lining work at the Montoya Main Lateral will be based on engineering design specifications developed for and used in concrete lining work performed in other sections of the Montoya Main Lateral located immediately upstream of the proposed section (USBR Contract No. R19A00228). Figures 9 and 10 below illustrate engineering and design work performed for the Project, which was used to estimate the construction costs and timeline included in this proposal.

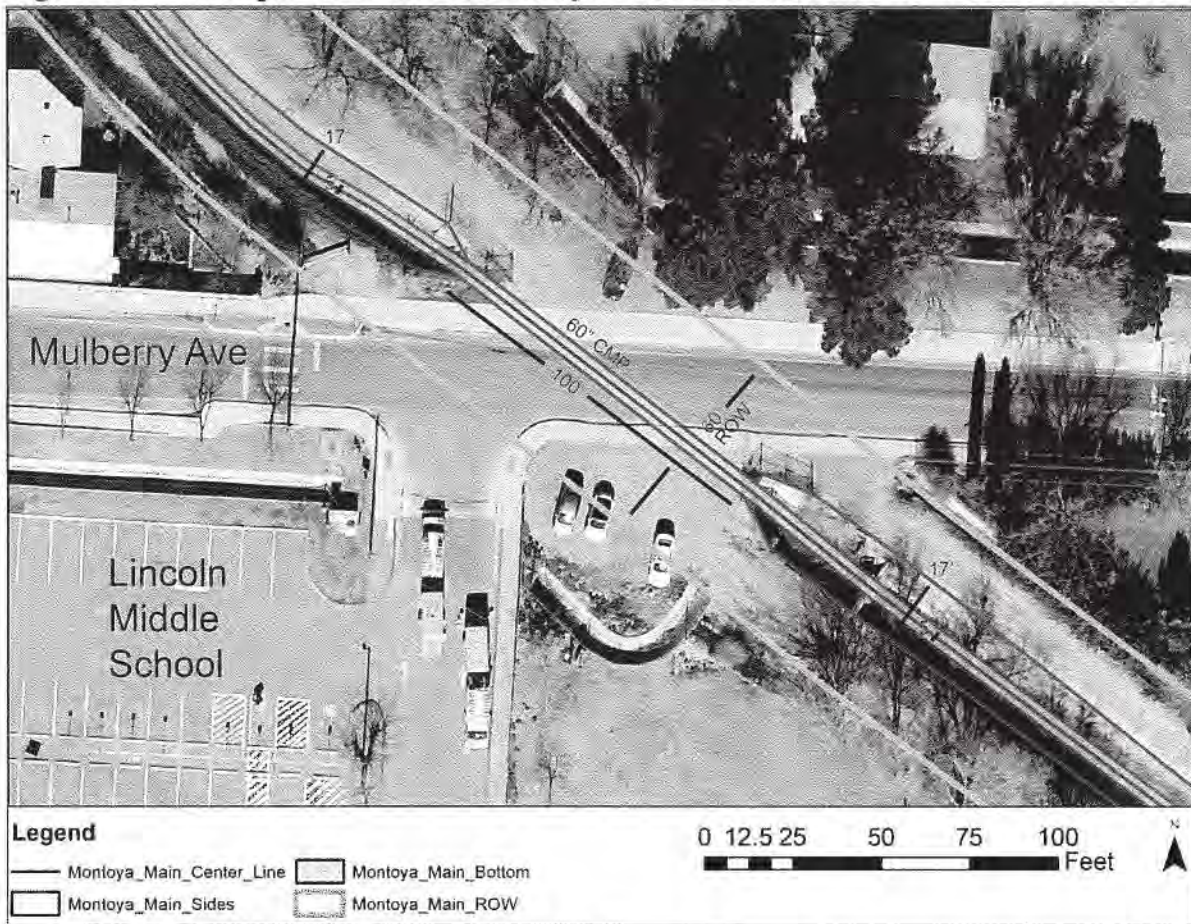
**Figure 9. Cross-Section Specifications for the Montoya Main Lateral (Not to Scale)**



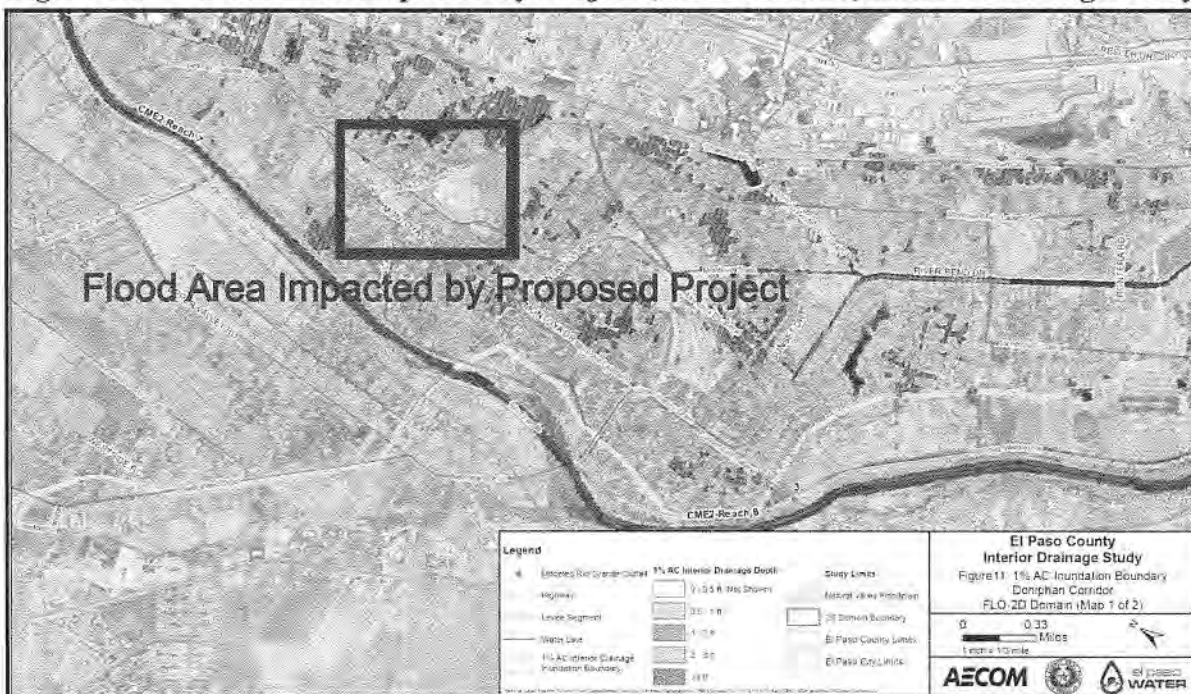
*Describe the timeline for completion of environmental and cultural resource compliance. Was the timeline for completion of environmental and cultural compliance discussed with the local Reclamation office?*

According to staff from Reclamation's Albuquerque Area Office and support from staff from the El Paso Field Division Office, it is expected that a Categorical Exclusion Checklist (CEC) will be sufficient to meet environmental and cultural resource compliance. This was also the case for Phase I of the Montoya Main Lateral Concrete Lining Project (USBR Contract No. R19AP00228).

**Figure 10. Sample Overview of Montoya Main Lateral Concrete Lined Cross-Section**



**Figure 11. Flood Area Impacted by Project (AECOM 2020, Interior Drainage Study)**





#### **D.4. Evaluation Criterion D – Nexus to Reclamation (10 points)**

*Up to 10 points may be awarded based on the current extent that the proposal demonstrates a nexus between the proposed project and a Reclamation project or activity. Describe the nexus between the proposed project and a Reclamation project or activity, including:*

***Is the proposed project connected to a Reclamation Project or activity? Does the applicant receive Reclamation project water?***

EPCWID obtains water by annual allocation from the United States Bureau of Reclamation's Rio Grande Project.

***Is the project on Reclamation project lands or involving Reclamation facilities?***

Significant major canals and drains were constructed under the Rio Grande Reclamation Project, and Reclamation maintained the dams, reservoirs, canals and drains until 1980, when the maintenance responsibilities were assumed by EPCWID, and then subsequent ownership in 1996. EPCWID has worked with Reclamation on several improvement projects over the years since. EPCWID also continues to rely on Elephant Butte and Caballo Reservoirs for water storage, delivery, and flood control.

***Is the project in the same basin as a Reclamation project or activity?***

The proposed is located in the Rio Grande Basin.

***Will the proposed work contribute water to a basin where a Reclamation project is located?***

The proposed Project will contribute water via conservation and efficiency improvements to delivery operations for Rio Grande Project water users. The El Paso region is considered by Reclamation to be of "Substantial Potential for Conflict" as defined in Reclamation's 2011 Technical Memorandum 86-68251-11-01.

***Will the project benefit any tribe(s)?***

Water conserved as a result of the proposed project will benefit all Rio Grande Project water users in El Paso County, including the Ysleta del Sur Pueblo, a federally recognized tribe. EPCWID delivers irrigation water to the Ysleta del Sur Pueblo Reservation for agriculture and for two of the Ysleta del Sur Pueblo's most important ceremonial processions: *St. Anthony of Padua Feast Day* and *Dia de Los Santos Reyes*. The Ysleta del Sur Pueblo owns 379.2 acres of land with active irrigation water rights. The aforementioned water reliability and sediment reduction benefits also extend to this agricultural acreage.

## II PROJECT BUDGET

### A. Funding Plan and Letters of Commitment

The total project cost is \$177,731. EPCWID will contribute \$122,784 to the project, which is 62% of the total project costs. EPCWID is requesting a \$75,000 grant from Reclamation, which is 38% of the total project costs. There are no additional funding partners for this project.

EPCWID Funding	\$122,784	=	62%
Reclamation Funding	\$75,000	=	38%
Total Project Funding	\$197,784	=	100%

The proposed project includes budgeted costs that are representative of actual construction costs for other sections of the Montoya Main Lateral, including cost estimates in USBR Contract No. R19AP00228. EPCWID has sufficient revenues to provide a 62% cost share for the project. EPCWID's funding commitment is established via a Resolution from the Board of Directors voted and approved on February 10, 2021 and is available for reference in Appendix A.

There are no additional funding partners for this project. Environmental and cultural compliance work is expected to be minimal based on findings in previous concrete lining work performed on the Montoya Main Lateral. There are no costs incurred before the anticipated proposed project start date.

### B. Budget Proposal

Table 1. Total Project Cost Table

FUNDING SOURCES	AMOUNT
Costs to be reimbursed with requested Federal funding	\$ 75,000
Costs to be paid by the applicant	\$ 122,784
Value of third-party contributions	\$ 0
<b>TOTAL PROJECT COSTS</b>	<b>\$ 197,784</b>

**Table 2. Budget Proposal**

BUDGET ITEM DESCRIPTION	COMPUTATION		Quantity Type	EPCWID#1 Funding	Reclamation Funding	TOTAL COST	
	\$/unit	Quantity					
<b>Salaries and Wages</b>							
Maintenance Supervisor	\$31.11	/hour	150	Labor	\$ 4,667	\$ - \$ 4,667	
Equipment Operator I / Labor	\$13.46	/hour	180	Labor	\$ 2,422	\$ - \$ 2,422	
Equipment Operator I / Labor	\$14.35	/hour	180	Labor	\$ 2,583	\$ - \$ 2,583	
Equipment Operator I / Labor	\$14.65	/hour	180	Labor	\$ 2,637	\$ - \$ 2,637	
Equipment Operator I / Labor	\$14.87	/hour	180	Labor	\$ 2,677	\$ - \$ 2,677	
Equipment Operator II	\$18.74	/hour	200	Labor	\$ 3,748	\$ - \$ 3,748	
Equipment Operator III	\$20.20	/hour	180	Labor	\$ 3,636	\$ - \$ 3,636	
Equipment Operator III (2)	\$20.98	/hour	180	Labor	\$ 3,776	\$ - \$ 3,776	
						<b>Subtotal \$ 26,145</b>	
<b>Fringe Benefits</b>							
Maintenance Supervisor	\$7.61	/hour	150	Labor	\$ 1,142	\$ - \$ 1,142	
Equipment Operator I / Labor	\$5.10	/hour	180	Labor	\$ 918	\$ - \$ 918	
Equipment Operator I / Labor	\$5.15	/hour	180	Labor	\$ 927	\$ - \$ 927	
Equipment Operator I / Labor	\$5.19	/hour	180	Labor	\$ 934	\$ - \$ 934	
Equipment Operator I / Labor	\$5.22	/hour	180	Labor	\$ 940	\$ - \$ 940	
Equipment Operator II	\$5.81	/hour	200	Labor	\$ 1,162	\$ - \$ 1,162	
Equipment Operator III	\$6.04	/hour	180	Labor	\$ 1,087	\$ - \$ 1,087	
Equipment Operator III (2)	\$6.16	/hour	180	Labor	\$ 1,109	\$ - \$ 1,109	
						<b>Subtotal \$ 8,218</b>	
<b>Equipment (Rates from 2016 US-ACE USACE EP1110-1-8 District VI Expense Schedule)</b>							
Pickup (2)	\$21.71	/hour	40	Equipment	\$ 868	\$ - \$ 868	
Dump Truck (12/15 CY)	\$30.68	/hour	60	Equipment	\$ 1,841	\$ - \$ 1,841	
Dump Truck (6 CY)	\$21.48	/hour	60	Equipment	\$ 1,289	\$ - \$ 1,289	
Excavator 1	\$42.64	/hour	60	Equipment	\$ 2,558	\$ - \$ 2,558	
Excavator 2	\$42.64	/hour	60	Equipment	\$ 2,558	\$ - \$ 2,558	
Welding Rig (2)	\$5.76	/hour	40	Equipment	\$ 230	\$ - \$ 230	
Dozer	\$37.70	/hour	40	Equipment	\$ 1,508	\$ - \$ 1,508	
Grader	\$54.30	/hour	40	Equipment	\$ 2,172	\$ - \$ 2,172	
Water Truck (2)	\$25.66	/hour	80	Equipment	\$ 2,053	\$ - \$ 2,053	
Rubber Tire Excavator	\$42.90	/hour	40	Equipment	\$ 1,716	\$ - \$ 1,716	
Steel Roller Compactor	\$55.27	/hour	40	Equipment	\$ 2,211	\$ - \$ 2,211	
Loader	\$32.10	/hour	40	Equipment	\$ 1,284	\$ - \$ 1,284	
Shotcrete Machine (2)	\$22.00	/hour	60	Equipment	\$ 1,320	\$ - \$ 1,320	
Compressor (2)	\$9.74	/hour	60	Equipment	\$ 584	\$ - \$ 584	
Telescopic Boom 2	\$40.98	/hour	60	Equipment	\$ 2,459	\$ - \$ 2,459	
						<b>Subtotal \$ 24,651</b>	
<b>Supplies and Materials</b>							
Shotcrete	\$110.00	/cy	733	cubic yards	\$ 5,630	\$ 75,000 \$ 80,630	
Curing Compound	\$6.20	/gal	304	gallons	\$ 1,885	\$ 1,885	
GeoFabric Liner	\$0.06	/sf	59400	square feet	\$ 3,564	\$ - \$ 3,564	
Steel Panel Framework (unit size varies)	\$17.50	/lf	2700	square feet	\$ 47,250	\$ - \$ 47,250	
Wattle Pins	\$0.31	/ea	17550	each	\$ 5,441	\$ - \$ 5,441	
						<b>Subtotal \$ 138,769</b>	
<b>TOTAL ESTIMATED PROJECT COSTS</b>					<b>\$ 122,784</b>	<b>\$ 75,000</b>	<b>\$ 197,784</b>

### C. Budget Narrative

#### *Salaries and Wages (in-kind)*

The following EPCWID personnel will be involved in this project. Their respective roles and actual salaries and fringe rates (Fiscal Year 2020) are described below:

- **Maintenance Supervisor** will be responsible for project supervision, quality control, safety, operating of equipment, other labor contributions to construction work, and generating cost and equipment use records necessary for reporting. It is estimated that the Maintenance Supervisor will contribute 150 hours to the project at a loaded rate of \$38.72 per hour consisting of \$31.11 per hour in wages and \$7.61 per hour in fringe costs.
- **Equipment Operator I / Labor** is a classification used for four employees that will be responsible for the operation of construction equipment and various manual labor tasks. It is estimated that these employees will each contribute 180 hours to the project. Individual salaries and fringe rates are listed in the Budget Proposal.
- **Equipment Operator II** will be responsible for the operation of construction equipment and various manual labor tasks. It is estimated that the Equipment Operator II will contribute 200 hours to the project at a loaded rate of \$24.55 per hour consisting of \$18.74 per hour in wages and \$5.81 per hour in fringe costs.
- **Equipment Operator III** will be responsible for the operation of construction equipment and various manual labor tasks. It is estimated that the Equipment Operator III will contribute 180 hours to the project at a loaded rate of \$26.24 per hour consisting of \$20.20 per hour in wages and \$6.04 per hour in fringe costs
- **Equipment Operator III (2)** will be responsible for the operation of construction equipment and various manual labor tasks. It is estimated that the Equipment Operator III (2) will contribute 180 hours to the project at a loaded rate of \$27.14 per hour consisting of \$20.98 per hour in wages and \$6.16 per hour in fringe costs

#### *Certification of Labor Rates*

The labor rates of identified personnel included herein represent the actual labor rates of personnel bearing the same title in Fiscal Year 2020. Additional verification is available as needed pursuant to an award contract with Reclamation.

#### *Fringe Benefits (in-kind)*

The in-kind fringe benefits for EPCWID personnel involved in this project personnel included herein represent the actual labor rates of personnel bearing the same title in Fiscal Year 2020.

#### *Equipment*

EPCWID owns all of the equipment that will be used in the proposed project. The included equipment usage time estimates are based on similar concrete lining projects at the Montoya Main Lateral. Equipment stand-by time is not included. The proposed usage cost rates are based of costs outlined by the 2018 United States Army Corps of Engineers (USACE) Construction Equipment Ownership and Operating Expense Schedule (EP1110-1-8) for District VI, which

includes the State of Texas. Equipment cost rates can be referenced in Table 3 in the following page. The equipment rate structure included in this application was negotiated with Reclamation staff as part of Contract No. R19AP00228 (Phase I of the Montoya Main Concrete Lining Project).

### ***Materials and Supplies***

The proposed costs and itemization for materials and supplies are representative of costs and quantities used for Contract No. R19AP00228 with Reclamation and materials and supplies procured in Fiscal Year 2020. The use of prefabricated steel panel framework reduces the amount of staff time needed to complete the construction project (i.e., the process is less labor intensive). The price of steel is subject to change based on local supply and market conditions.

### ***Shotcrete***

The quantity of shotcrete needed for the project was estimated at 733 cubic yards. The following calculations were used to estimate the amount of shotcrete needed for the project:

$$\begin{aligned} & \text{Project length (feet) * Cross-section (feet) * Thickness (inches)/12/27} \\ & (2,700 * 22 * 4)/12/27 = 733.33 \text{ cubic yards} \end{aligned}$$

### ***Curing Compound***

Approximately 1 gallon of curing compound is needed for every 2.5 cubic yards of shotcrete used in the project:

$$\begin{aligned} & \text{cy shotcrete used / 2.5 = gallons per cubic yard of shotcrete} \\ & 733 / 2.5 = 318 \text{ gallons} \end{aligned}$$

### ***Geofabric liner***

The following calculations were used to estimate the amount of geofabric liner:

$$\begin{aligned} & \text{Project Length (feet) * Cross Section (feet) = Surface Area (square feet)} \\ & 2,700 * 22 = 59,400 \text{ sf} \end{aligned}$$

### ***Steel Panel Formwork***

Steel panel formwork is prefabricated according to the canal specifications and rates vary depending on the size of sheets for the canal bottom, sides, and bends. Prefabricated steel panel framework is purchased in linear feet based on engineering design specifications and is then cut and installed by EPCWID staff at the job site.

### ***Indirect Costs***

Indirect costs are not included as part of the project. EPCWID has ample experience in managing grant-funded projects with Reclamation and has developed a grant administration process that streamlines reporting and reimbursements, eliminating most administrative and overhead costs.

### ***Total Amount of Project Costs***

The total cost of the project is \$197,784. The Bureau of Reclamation requested share is \$75,000. The EPCWID contribution will be \$122,784 as in-kind contributions and material costs.

**Table 3. Equipment Costs**

EP1110-1-8 Equipment (2018)	Category Number	EP1110-1-8 ID No	Page No.	Horsepower/ Specification	District Vehicle	Year	EP1110-1-8 Rates (average hr)	DEPR	FCCM	Ownership Rate (DEPR+FCCM)	Age Mult	Adjusted Ownershi p Rate	(Final) Adjusted Hourly
Pickup (x5)	T50	T50XX004	231	4x4, 1/2 ton, gas pickup	F-350 / 2500 HD	Varies	\$21.71	\$3.34	\$0.45	\$3.79	1	\$3.79	\$21.71
Dump Truck 1	T50	T50XX032	232	10-13 CY Dump	2017 PETERBILT 348 T-10 (12/15 YD Dump)	2017	\$30.52	\$7.03	\$1.18	\$8.21	1.02	\$8.37	\$30.68
Dump Truck 2	T50	T50XX032	232	10-13 CY Dump	2017 PETERBILT 348 T11 (12/15 YD Dump)	2017	\$30.52	\$7.03	\$1.18	\$8.21	1.02	\$8.37	\$30.68
Dump Truck 3	T50	T50XX032	232	10-13 CY Dump	2001 FREIGHTLINER T6 (12/15 YD Dump)	2001	\$30.52	\$7.03	\$1.18	\$8.21	0.66	\$5.42	\$27.73
Dump Truck 4	T50	T50XX032	232	10-13 CY Dump	2001 STERLING T7 (12/15 TD Dump)	2001	\$30.52	\$7.03	\$1.18	\$8.21	0.66	\$5.42	\$27.73
Dump Truck 5	T40	T400X002	222	8 CY Dump Option	2008 FORD F750 6YD DUMP TRUCK T9	2008	\$1.99	\$1.11	\$0.12	\$1.23	0.84	\$1.03	\$1.79
	T50	T50XX026	232	32,000 GVW Truck			\$21.31	\$4.75	\$0.82	\$5.57	0.87	\$4.85	\$20.59
Dump Truck 6	T40	T400X002	222	8 CY Dump Option	2008 FORD F750 6YD DUMP TRUCK T8	2008	\$1.99	\$1.11	\$0.12	\$1.23	0.84	\$1.03	\$1.79
	T50	T50XX026	232	30,000 GVW Truck			\$21.31	\$4.75	\$0.82	\$5.57	0.87	\$4.85	\$20.59
Dump Truck 7	T40	T400X002	222	8 CY Dump Option	2007 FORD F750 6YD DUMP TRUCK T2	2007	\$1.99	\$1.11	\$0.12	\$1.23	0.81	\$1.00	\$1.76
	T50	T50XX026	232	30,000 GVW Truck			\$21.31	\$4.75	\$0.82	\$5.57	0.87	\$4.85	\$20.59
Dump Truck 8	T40	T400X002	222	8 CY Dump Option	2006 F750 6YD DUMP TRUCK T-1	2006	\$1.99	\$1.11	\$0.12	\$1.23	0.79	\$0.97	\$1.73
	T50	T50XX026	232	30,000 GVW Truck			\$21.31	\$4.75	\$0.82	\$5.57	0.72	\$4.01	\$19.75
Dump Truck 9	T40	T400X002	222	8 CY Dump Option	1997 GMC 6YD DUMP TRUCK T-5	1997	\$1.99	\$1.11	\$0.12	\$1.23	0.66	\$0.81	\$1.57
	T50	T50XX026	232	30,000 GVW Truck			\$21.31	\$4.75	\$0.82	\$5.57	0.72	\$4.01	\$19.75
Dump Truck 10	T40	T400X002	222	8 CY Dump Option	1995 GMC 6YD DUMP T-4	1995	\$1.99	\$1.11	\$0.12	\$1.23	0.66	\$0.81	\$1.57
	T50	T50XX026	232	30,000 GVW Truck			\$21.31	\$4.75	\$0.82	\$5.57	0.72	\$4.01	\$19.75
Excavator 1	H25	H25CA022	120	153 HP / 1.56 CY bucket	EC210BLR-1 VOLVO EXCAVATOR (159 HP, 1.5yd bucket, long-stick)	2008	\$44.97	\$14.84	\$3.12	\$17.96	0.87	\$15.63	\$42.64
Excavator 2	H25	H25CA022	120	153 HP / 1.56 CY bucket	EC210BLR-2 VOLVO EXCAVATOR (159 HP, 1.5yd bucket, long-stick)	2008	\$44.97	\$14.84	\$3.12	\$17.96	0.87	\$15.63	\$42.64
Excavator 3	H25	H25CA041	119	Cat 320DL	320DL-EXC CATERPILLAR E-9 (148 HP, .80 CY, long-stick)	2008	\$51.17	\$17.78	\$3.73	\$21.51	0.87	\$18.71	\$48.37
Excavator 4	H25	H25CA041	119	Cat 320DL	320DL-EXC CATERPILLAR E-10 (148 HP, .80 CY, long-stick)	2008	\$51.17	\$17.78	\$3.73	\$21.51	0.87	\$18.71	\$48.37
Excavator 5	H25	H25CA041	119	128 HP, .80 CY bucket	320A -EXC CATERPILLAR E-7 (138 HP, 1 CY, long-stick)	2008	\$51.17	\$17.78	\$3.73	\$21.51	0.87	\$18.71	\$48.37
Welding Rig (x2)	W35	W35XX022	243	(250 amp)	Utility Truck + Ranger 250 GTX (250 amp)	2012	\$5.81	\$0.59	\$0.09	\$0.68	0.93	\$0.63	\$5.76
Dozer	T15	T15JD007	213	JD 650K / 101 HP	JOHN DEERE 700K XLT DOZER (97 HP)	2017	\$37.44	\$10.88	\$2.13	\$13.01	1.02	\$13.27	\$37.70
Grader	G15	G15JD010	103	JD 770G	2009 JD 770D MOTOR GRADER G-6 (160 HP)	2009	\$58.20	\$15.78	\$1.96	\$17.74	0.78	\$13.84	\$54.30
Sheeps Foot Roller	R45	R45CA010	188	145 HP / D-off	CAT CP563 ROLLER RL-2 (145 HP)	2007	\$71.27	\$22.84	\$3.00	\$25.84	0.78	\$20.16	\$65.59
Water Truck	T50	T50XX026	232	32,000 GVW Truck	2007 Freightliner	2007	\$21.31	\$4.75	\$0.82	\$5.57	0.77	\$4.29	\$20.03
	T40	T40RS003	224	4,000 gal tank	4000 gal Water Tank Add-on	2007	\$9.60	\$4.88	\$0.59	\$5.47	0.79	\$4.32	\$8.45
Water Truck	T50	T50XX026	232	32,000 GVW Truck	1995 GMC W2	1995	\$21.31	\$4.75	\$0.82	\$5.57	0.72	\$4.01	\$19.75
	T40	T40RS002	224	3,000 gal tank	3000 gal Water Tank Add-on	1995	\$7.60	\$4.11	\$0.22	\$4.33	0.61	\$2.64	\$5.91
Rubber Tire Excavator	H30	H30CA001	134	141 HP, .69 CY bucket	EW170B VOLVO EXCAVATOR (145 HP 3/4 bucket)	2001	\$53.04	\$23.89	\$3.51	\$27.40	0.63	\$17.26	\$42.90
Steel Roller Compactor	R50	R50WG001	192	132 HP, 83" wide, 21.1 ton	DYNAPAC CA2500 D ROLLER RL-1 (130 HP, 83" wide, 13 ton)	2015	\$55.35	\$13.69	\$18.08	\$2.70	0.97	\$2.62	\$55.27
Loader	L40	L40CA019	147	CAT 924H	924H CAT LOADER L1 (128 HP, 2 YD bucket)	2010	\$34.23	\$12.16	\$2.07	\$14.23	0.85	\$12.10	\$32.10
Shotcrete Machine (x2)	P45	P45AI010	172	60 HP / 50 CY/HR	SHOTCRETE PUMP REED B50 (50 CY/HR, 110 HP)	2013	\$22.26	\$7.75	\$0.93	\$8.68	0.97	\$8.42	\$22.00
Compressor (x2)	A15	A15DP001	25	Doosan P185	DOOSAN AIR COMPRESSOR P185 AC2 (185 CFM 49 HP)	2013	\$9.81	\$1.59	\$0.26	\$1.85	0.96	\$1.78	\$9.74
Telescopic Boom 1	P40	P40TE022	168	Genie S105 / 500 lbs / 110 ft	GENIE S-120 2002 LF1 (126 ft telescopic boom, 750 lbs, 78 hp)	2002	\$78.66	\$38.28	\$4.36	\$42.64	0.73	\$31.13	\$67.15
Telescopic Boom 2	P40	P40TE021	168	500 lbs / 64 ft	JLG 600S SKYPOWER 2008 LF2 (66 ft boom, 750 lbs 78 hp)	2008	\$43.47	\$20.28	\$2.38	\$22.66	0.89	\$20.17	\$40.98

### III ENVIRONMENTAL AND CULTURAL RESOURCES COMPLIANCE

***Will the proposed project impact the surrounding environment?***

Post-construction environmental impacts will be positive. The project will reduce potential suburban flooding by protecting the Montoya Main Lateral from breach and spills. District maintenance activities will be reduced by approximately 80%, thereby reducing dust generation, equipment noise and fuel consumption.

Special attention will be given to the following items during the construction phase:

- Dust abatement
- Noise impacts
- No clearing will be done except clearing brush within right-of-way of the District
- Mechanical compaction of the earth to prevent any damage to adjacent property from earth movement

***Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?***

There are no anticipated impacts to threatened and endangered species by the proposed project.

***Are there wetlands or other surface waters inside the project boundaries that fall under CWA jurisdiction as “waters of the United States?”***

There are no surface waters inside the project boundaries that fall under CWA jurisdiction.

***When was the water delivery system constructed?***

Major waterways in the EPCWID irrigation system were constructed through the Rio Grande Reclamation Project from 1915 to 1925. The Montoya Main Lateral was constructed in 1919.

***Will the proposed project result in any modifications or effects to, individual features of an irrigation system? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.***

Irrigation system features such as headings and turnouts are continuously modified as part of maintenance operations. Consequently, no adverse impacts to individual features of the irrigation system are anticipated as part of the proposed project.

***Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places?***

The El Paso County Water Improvement District Number One (the District) is listed in the National Register of Historic Places under National Register Information System ID 97000885. There are no anticipated adverse effects of features listed in the National Register of Historic Places as a result of the proposed project. EPCWID has an agreement with the Texas Historical Commission (SHPO) in regards to which facilities can be concrete lined or placed underground. The SHPO issued a determination of No Adverse Effects / No Historic Properties Present or Affected in Phase I of the Montoya Main Lateral Concrete Lining Project (contract no. R19AP00228 with Reclamation). EPCWID expects a similar determination for the proposed project.

***Are there any known archeological sites in the proposed project area?***

There are no known archeological sites in the proposed project area.

***Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?***

There are no anticipated negative impacts on minority populations or low-income communities. The proposed project is likely to have a beneficial impact on residential and public properties in the City of El Paso, Texas.

**Table 4. Comparison of Average Household Median Income (AHMI) (U.S. Census American Community Survey 2015-2019 5-Year Estimates)**

<b>Boundary</b>	<b>AMHI</b>	<b>% of Texas</b>	<b>% of U.S.</b>
City of El Paso	\$47,568	76.88%	75.69%
El Paso County	\$46,871	75.75%	74.58%
State of Texas	\$61,874	100.00%	98.46%
United States	\$62,843	101.54%	100.00%

***Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?***

There are no anticipated limits to access to and ceremonial use of Indian sacred sites or adversely impact tribal lands.

***Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?***

There are no anticipated contributions to the introduction, continued existence, or spread of noxious weeds or non-native invasive species.

**IV REQUIRED PERMITS OR APPROVALS**

EPCWID owns, operates, and maintains the project site and right-of-way. There are no required permits or approvals necessary for the proposed project.

**V UNIQUE ENTITY IDENTIFIER AND SYSTEM FOR AWARD MANAGEMENT**

**System for Award Management (SAM) Registration**

The El Paso County Water Improvement District No. 1 maintains an active SAM registration and all information is up to date.

**EIN Number:** 74-1505167

**Department of Treasury Automated Standard Application for Payments (ASAP)**

The District is currently enrolled in ASAP and is ready to engage in active financial assistance agreements with Reclamation.

**DUNS Number:** 128044773



VI APPENDIX

A. Official Resolution

RESOLUTION OF THE BOARD OF DIRECTORS

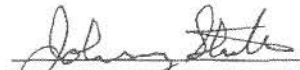
El Paso County Water Improvement District No.1

El Paso County Water Improvement District No. 1 resolves to authorize the General Manager or the District Engineer to submit and take any Administrative Action required to complete an application to the United States Bureau of Reclamation Fiscal Year 2021 WaterSMART Small-Scale Water Efficiency Program for a Grant totaling \$75,000 to conserve water and improve the District's water use efficiency by concrete lining a section of the Montoya Main Lateral.

**Whereas**, the El Paso County Water Improvement District No.1 (the District) is a political subdivision of the State of Texas and was organized under Chapter 59, Article 16 of the Texas Constitution and operates under Chapter 55 and Chapter 49, in part, of the Texas Water Code;

**Now Therefore**, the Board of Directors of the District hereby resolve to support the District's application for a Grant and authorizes the General Manager or the District Engineer to submit and take any administrative action required to complete applications to the United States Bureau of Reclamation, including working with Reclamation to meet established deadlines for entering into a grant or cooperative agreement, and if the District is selected to receive a Grant, to negotiate an agreement to be approved by the District's Board of Directors. The District has the capability to provide the amount of funding and/or in-kind contributions specified in the Funding Plan in the application.

El Paso County Water Improvement District No.1

  
By: Johnny Stubbs, President

**B. Letters of Project Support**

**Resolution of Support from the City of El Paso, Texas**



**Rep. Peter Svarzbein, District 1**

**MAYOR**  
Oscar Leeser

February 25, 2021

**CITY COUNCIL**

To Whomever This Concerns,

**District 1**  
Peter Svarzbein

**District 2**  
Alexandra Anello

**District 3**  
Cassandra Hernandez

**District 4**  
Joe Molinar

**District 5**  
Isabel Salcido

**District 6**  
Claudia L. Rodriguez

**District 7**  
Henry Rivera

**District 8**  
Cissy Lizarraga

With the concrete line planned along the Montoya lateral also comes a great opportunity for collaboration in a complementary project of constructing a walking path that I strongly feel is needed to promote safety for pedestrians. My office is willing to contribute funds from our discretionary account to assist with this project. It is highly needed, and would aim to serve a community purpose for pedestrian friendly options in our community. I have always championed multimodal, safe options to be provided, and this is very consistent with my efforts to raise awareness for bicycle and pedestrian pathways I feel our needed not just along the Montoya area, but throughout El Paso neighborhoods.

Sincerely,

A handwritten signature in black ink, appearing to read "P. Svarzbein".

**CITY MANAGER**  
Tommy Gonzalez

Rep. Peter Svarzbein

Rep. Peter Svarzbein – District 1  
300 N. Campbell | El Paso, Texas 79901 | (915) 212-1002



DELIVERING EXCEPTIONAL SERVICES

# Letter of Support from the El Paso Independent School District for Phase I of the Project



EL PASO INDEPENDENT  
SCHOOL DISTRICT

6531 Boeing Drive  
El Paso, TX 79925  
Phone (915) 230-2800  
Fax (915) 230-0800  
www.eplisd.org

April 12, 2019

Mr. Matthew Reichert  
Financial Assistance Support Section  
United States Bureau of Reclamation  
P.O. Box 25007, MS 84-27814  
Denver, CO 80225

**RE: Letter of Support for Water Conservation Project Proposed by EPCWID1**

Dear Mr. Reichert:

The El Paso County Water Improvement District No. 1 (EPCWID1) is applying for funding for the Montoya Main and Montoya A Laterals Concrete Lining Project under the Water SMART Small-Scale Water Efficiency Projects program for Fiscal Year 2019. The improvements proposed by EPCWID1 will help conserve water and reduce maintenance operations along the canal sections that are adjacent to Montoya Drive, opening up the possibility of developing a walking path on the banks of the Montoya Main and Montoya A Laterals.

In September of 2018, a student of Lincoln Middle School was tragically killed after being struck by a hit-and-run driver while walking home from school at Montoya Drive in El Paso, Texas. Prior to the incident, Montoya Drive had limited speed control measures and no sidewalk, due to limited right-of-way. The City of El Paso has since made speed control improvements, but additional improvements are needed to ensure the safety of pedestrians walking along Montoya Drive. Due to Lincoln School becoming a consolidated PK-8 campus by 2021, which will increase enrollment, the funding of this project is imperative.

The successful completion of the proposed project by EPCWID1 would allow the City of El Paso to construct a walking path on the bank of the Montoya Main and Montoya A Laterals facing Montoya Drive. Developing a walking path in this location would bring an additional school transportation option for students of Lincoln Middle School. As such, EPISD supports the project proposed by the El Paso County Water Improvement District No. 1 and recommends its funding.

Sincerely,

A handwritten signature in black ink, appearing to read 'Juan E. Cabrera', written over a printed name and title.

Juan E. Cabrera  
Superintendent

cc: cac

## Resolution of Support from the El Paso County Judge for Phase I of the Project



**RICARDO A. SAMANIEGO**

El Paso County Judge

April 16, 2019

Mr. Matthew Reichert  
Financial Assistance Support Section  
United States Bureau of Reclamation  
P.O. Box 25007, MS 84-27814  
Denver, CO 80225

Letter of Support for Water Conservation Projects Proposed by EPCWIDI

Dear Mr. Reichert:

I write this letter in support of the El Paso County Water Improvement District No. 1's (EPCWIDI) application to receive funding from the Bureau of Reclamation's WaterSMART Program for FY 2019. If approved, funding will allow EPCWIDI to help improve the concrete lining for two projects which include the Montoya Main and Montoya A Laterals Concrete Lining Project, and the Advanced Metering Infrastructure Upgrades to Irrigation Wells Project.

EPCWIDI is proposing to make concrete lining improvements to the Montoya Main and Montoya A Laterals that will help conserve significant quantities of water lost to seepage and evaporation, as well as install Advanced Metering Infrastructure (AMI) upgrades to shallow groundwater recovery wells used to supplement irrigation water supplies during periods of drought. Irrigation, municipal, and industrial water use, as well as international and interstate treaties have all placed significant demands on our limited and incredibly valuable water resources in the area. While most of Texas has recovered from drought, El Paso has remained in perpetual drought conditions for the last 15 years. According to the Texas Water Development Board (2015), the socioeconomic impacts of projected water shortages in El Paso County are approximately \$3.45 billion by 2070 and include almost 25,000 jobs lost. Investments today will help secure El Paso's water future.

EPCWIDI has worked tirelessly in collaboration with the County of El Paso to enhance our community's quality of life, and most importantly to ensure the sustainability of our water resources. With this said, I strongly support the water efficiency projects proposed and recommend their funding.

Sincerely,

A handwritten signature in cursive script that reads "Ricardo A. Samaniego".

Ricardo A. Samaniego  
El Paso County Judge

500 E. San Antonio, Suite 301, El Paso, TX 79901

Phone: 915-546-2098 · Fax: 915-543-3888 · [countyjudge@epcounty.com](mailto:countyjudge@epcounty.com) · [www.epcounty.com](http://www.epcounty.com)

## Letter of Support from the Far West Texas Water Planning Group (requested for Phase I)



April 12, 2019

Mr. Matthew Reichert  
Financial Assistance Support Section  
United States Bureau of Reclamation  
P.O. Box 25007, MS 84-27814  
Denver, CO 80225

**RE: Letter of Support for Water Conservation Projects Proposed by EPCWID1**

Dear Mr. Reichert:

The El Paso County Water Improvement District No. 1 (EPCWID1) is applying for funding for two projects under the WaterSMART Small-Scale Water Efficiency Projects for Fiscal Year 2019:

- Montoya Main and Montoya A Laterals Concrete Lining Project
- Advanced Metering Infrastructure (AMI) Upgrades to Irrigation Wells Project

EPCWID1 is proposing to make concrete lining improvements to the Montoya Main and Montoya A Laterals that will help the District conserve water lost to seepage. EPCWID1 is also proposing to install Advanced Metering Infrastructure (AMI) upgrades to shallow groundwater recovery wells used to supplement irrigation water supplies during periods of drought.

The Far West Texas Water Planning Group (WPG) pursuant to the State of Texas Water Code §16.05 is designated to develop the Region E Far West Texas Regional Water Plan with support from the Texas Water Development Board (TWDB). The Far West Texas WPG is composed of voting members from 7 counties in West Texas representing 15 water use interest categories and non-voting representatives of public stakeholder agencies, including the U.S. Bureau of Reclamation.

The Region E Far West Texas Regional Water Plan includes water management strategies that, when implemented, would develop, deliver, or treat additional water supply volumes or conserve water. The projects proposed by EPCWID1 are recommended water management strategies listed in the 2017 Texas State Water Plan and can be referenced using Water Management Strategy ID E-45.

As such, the Far West Texas Water Planning Group supports the water conservation projects proposed by the El Paso County Water Improvement District No. 1 and recommends their funding.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Reinert".

Scott Reinert, P.E., P.G.  
Vice-Chair