
Infrastructure Capital Improvement Plan FY 2018-2022

ICIP for Eldorado Area WSD

Contact: David Chakroff, General Manager
2 N Chamisa Dr, Suite A
Santa Fe, NM 87508

Telephone No.: 466-2531

County: Santa Fe

COG District: 2

Fax: 466-2631

Entity Type: SD

Email Address: general.manager@EAWSD.org

Is your entity compliant with Executive Order 2013-006? http://www.nmdfa.state.nm.us/Capital_Outlay_Bureau.aspx Yes

Does entity have an asset management plan and/or inventory listing of capital assets?: Yes

Plan and Priority Process

Eldorado Area Water and Sanitation District (EAWSD) has a thorough and comprehensive process for planning and prioritizing projects included in its ICIP. Foundation documents include a Long-Term Water Availability and Well Field Management Study Report and a Preliminary Engineering Review (System Hydraulic Survey) with accompanying utility remediation master plan, all completed in FY2008. EAWSD completed a comprehensive 20-year Utility Master Plan/Preliminary Engineering Report in July 2013, with an emphasis on utility infrastructure improvements. In addition, the District commissioned an in-depth review of its remote telemetry and operations (SCADA) system in FY2009, which was updated in FY2011. EAWSD conducted a system-wide Condition Assessment Report in Sept. 2011 and has an asset inventory, which is housed in a Geographical Information Systems (GIS) database that is also interfaced to EAWSD's asset management system. An Asset Management Plan following A.M. Kan Work guidelines was completed in January 2016. All of this information is critical for the process of identifying, defining and prioritizing EAWSD's capital improvement projects.

In addition, important information regarding customer-oriented performance, system maintenance and development priorities is gained through close interaction and discussion with system operators, field personnel and customer service staff and through interaction with the community at public EAWSD Board meetings, from solicitation of community feedback, a monthly newsletter sent to all customers, and from other community outreach efforts.

The District maintains a Capital Planning Advisory (CPA) Committee, approved by the Board, and made up of Board members, the General Manager, the District's Project Manager, and community volunteers, with input from the District's engineer, operators and financial coordinator. Using all of the information described above, the CPA Committee annually develops and prioritizes a list of projects, which is the basis of the District's 5-year ICIP. The prioritized list is presented to the Board for approval. Following approval of the prioritized list, the full ICIP is developed and presented to the Board for approval prior to submittal.

The EAWSD Board of Directors has a strong commitment to transparency and inclusiveness in the governance of the District, especially in regard to the ICIP planning and prioritization process. On May 19, 2016, the EAWSD Board approved the 5-year ICIP (FY18 - FY22) prioritized project list in an open public meeting. On June 16, 2016, the Board adopted the full FY18-FY22 5-year ICIP, also in a publicly-noticed meeting of the EAWSD Board of Directors.

Capital Improvement Goals

EAWSD's primary objectives for its ICIP in FY2018 to FY2022 are to complete projects that will correct inherited system deficiencies and to respond to the impacts of six years of drought conditions, including (1) to continue to supply clean, safe drinking water to Eldorado and the surrounding communities it serves by improving an aging, neglected, substandard infrastructure, inherited from the predecessor private owner, until all elements meet or exceed state engineering standards, (2) to add sufficient pumping capacity to ensure that peak demand periods, including emergencies, can be served reliably, which will be accomplished through replacing older wells, drilling of new wells, acquiring and converting existing wells, and actively exploring opportunities to augment EAWSD's well based water supply with regional bulk water delivery projects, (3) to implement general system improvements through the addition, replacement and upgrade of wells, pipelines, booster pump stations, storage tanks, pressure relief valves, the Supervisory Control and Data Acquisition (SCADA) system and other components identified in the System Hydraulic Study and Utility Master Plan, (4) to continue developing and implementing standard maintenance procedures such as routine replacement or rebuilding of isolation valves, pressure reducing valves, and air relief valves, periodic storage tank inspection and cleaning, well rehabilitation and system wide leak detection surveys, and (5) to continue the remediative meter replacement program initiated in FY2007 and systematically replace all customer meters older than 15 years with cellular technology (smart meters) and establish a 15-year meter replacement cycle.

Factors/Trends Considered

1. Drought Effects. The EAWSD service area has experienced regional drought conditions for the last six years, which have had a serious detrimental impact on the District's water production capacity. Water levels dropped in 2010 in two production wells (W-9 and W-10) to depths that have prevented the District from pumping those wells. Wells 9 and 10 historically produced sufficient water to meet about 25% of the District's summer demand. Beginning in 2015, two more of the District's highest producing wells (W-14 and W-15) lost 36% of their production due to the ongoing drought. This significant loss of production capacity due to drought over the past six years has placed the District in dire need of new well capacity.
2. Utility Infrastructure Improvements. EAWSD continues to plan and implement much-needed remediation and upgrade projects for the existing water utility system to correct the infrastructure problems that existed at the time the utility was acquired in 2004, and to make improvements to the system that will increase operational efficiency, system reliability, and reserve capacity to enhance its fire protection capability.
3. Growth. Population growth in the District service area is currently less than one percent per year. While growth trends are always considered, the present growth rate is not sufficient to influence the District's ICIP decisions. However, additional pumping capacity is urgently needed to meet current peak demand for existing customers and to create critically important back-up reserve pumping capacity needed for drought conditions.
4. Regionalization. EAWSD supports strategic partnerships with other local water systems to promote and participate in regionalization. In particular, the District has been working with Santa Fe County in an attempt to reach agreement on terms to purchase water from the County's planned regional water transmission line that would be installed along the District's northern boundary.

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Eldorado Area WSD Project Summary

ID	Year	Rank	Project Title	Category	Funded to date						Total	Amount	Phases?
						2018	2019	2020	2021	2022	Project Cost	Not Yet Funded	
30448	2018	001	Pressure Zone Optimization Phase 3	Water Supply	0	585,600	0	0	0	0	585,600	585,600	No
28351	2018	002	SCADA Additions-Phase 2	Water Supply	0	250,000	0	0	0	0	250,000	250,000	No
31992	2018	003	Caballos Trail Distribution Line Replacement	Water Supply	0	247,500	0	0	0	0	247,500	247,500	No
20127	2018	004	Meter Replacement w/Cellular Technology-FY18	Water Supply	0	350,000	0	0	0	0	350,000	350,000	No
28359	2018	005	Well, Tank & Booster Station Improvements-Phase 1	Water Supply	0	250,000	0	0	0	0	250,000	250,000	No
28350	2018	006	County T/L Interconnection-Phase 1	Water Supply	0	600,000	0	0	0	0	600,000	600,000	No
30450	2018	007	Maintenance and Storage Facility	Water Supply	0	1,359,650	0	0	0	0	1,359,650	1,359,650	No
17824	2019	001	Well 20 Siting, Planning & Pilot	Water Supply	0	0	1,000,000	0	0	0	1,000,000	1,000,000	No
31993	2019	002	Meter Replacement w/Celluar Technology--	Water Supply	0	0	350,000	0	0	0	350,000	350,000	No
31994	2019	003	Well, Tank and Booster Station Improvements-Phase	Water Supply	0	0	250,000	0	0	0	250,000	250,000	No
31995	2019	004	County T/L Interconnection-Phase 2	Water Supply	0	0	607,250	0	0	0	607,250	607,250	No
30444	2019	005	Operations & Administration Facility	Water Supply	0	0	1,750,750	0	0	0	1,750,750	1,750,750	No
29374	2020	001	Transmission Infrastructure Upgrades	Water Supply	0	0	0	2,850,000	0	0	2,850,000	2,850,000	Yes
31996	2020	002	Well 20 Production	Water Supply	0	0	0	1,000,000	0	0	1,000,000	1,000,000	No

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31997	2020	003	Meter Replacement w/Cellular Technology-FY20	Water Supply	0	0	0	350,000	0	0	350,000	350,000	No
31998	2020	004	Well Tank and Booster Station Improvements-Phase 3	Water Supply	0	0	0	250,000	0	0	250,000	250,000	No
31999	2020	005	Furnishings & Fixtures for Combined Facility	Water Supply	0	0	0	250,000	0	0	250,000	250,000	No
32000	2021	001	Replace Booster Pumps and Lines	Water Supply	0	0	0	0	900,000	0	900,000	900,000	No
32001	2021	002	Well Tank & Bosster Station Improvements-Phase 4	Water Supply	0	0	0	0	250,000	0	250,000	250,000	No
32002	2021	003	Distribution Line Replacement-Phase 1	Water Supply	0	0	0	0	1,500,000	0	1,500,000	1,500,000	No
32003	2021	004	Meter Replacement w/Cellular Technology-FY21	Water Supply	0	0	0	0	350,000	0	350,000	350,000	No
32004	2022	001	Well Tank and Booster Station Improvements-Phase 5	Water Supply	0	0	0	0	0	250,000	250,000	250,000	No
32005	2022	002	Distribution Line Replacement-Phase 2	Water Supply	0	0	0	0	0	1,500,000	1,500,000	1,500,000	No
32006	2022	003	Replace Depleted Older Well, lines, etc.	Water Supply	0	0	0	0	0	1,000,000	1,000,000	1,000,000	No
32007	2022	004	Meter Replacement w/Cellular Technology-FY22	Water Supply	0	0	0	0	0	350,000	350,000	350,000	No

Number of projects: 25

	Funded to date:	Year 1:	Year 2:	Year 3:	Year 4:	Year 5:	Total Project Cost:	Total Not Yet Funded:
Grand Totals	0	3,642,750	3,958,000	4,700,000	3,000,000	3,100,000	18,400,750	18,400,750

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ICIP Capital Project Description

Year/Rank 2018 001

ID:30448

Project Title: Pressure Zone Optimization Phase 3

Project Type: New

Category: Water Supply

Contact Name: David Chakroff

Contact Phone: 505-466-2531

Contact E-mail: general.manager@EAWSD.org

Project Location: 2 N Chamisa Drive Santa Fe NM 87508

Latitude: 35.523287

Longitude: -105.891171

Legislative Language: To design and construct improvements to optimize water pressure and distribution of water storage for the Eldorado Area Water & Sanitation District in Santa Fe County.

Description/Scope of Work: This project will design and construct improvements to the EAWSD water system to help evenly distribute storage requirements among the existing tanks, reduce potential for leaks and breaks due to over-pressurizing of existing pipes, and reduce increased water usage due to household water fixtures operating at a higher pressure rate than typical. The project is being phased on the basis of priorities described in the EAWSD Pressure Zone Optimization Study, June 2014. Many of the existing main lines currently experience pressures above 100 psi, which causes waterline breaks, reduces the service life of waterlines and other system components, and increases the frequency of pipe and valve failure. High pressures also lead to increased water loss and customer use, since higher system pressures result in higher velocities and flows within pipes. Higher pressures can cause water pipes to expand slightly, increasing the size of cracks in the pipes and gaskets, allowing for additional water loss. Reducing pressures will increase the service life of existing system assets and reduce demand on water production wells due to reduced system water loss and customer use.

Please note that in the first table below, the unfunded amount (\$1,153,400) is anticipated to be included in 2016 and 2017 cycle WTB grant/loan applications. The table does not provide enough rows to indicate the loan component of that funding, so it is all included as a "grant" component.

Secured and Potential Funding Budget:						
State Grant Funding should only be requested when all other funding sources have been exhausted if entity is providing matching funds, i.e. Federal, Local Taxes, Fees, NM Finance Authority Loans (NMFA), Tribal Infrastructure Fund (TIF), Water Trust Board (WTB), Public School Facility Authority (PSFA), Colonia's Infrastructure Board (CIB), etc.						
Please complete table below with all secured and potential funding sources.						
Funding Source(s)	Funding Amount	Applied For? Yes or No	Amount Secured	Amt Expended to Date	Date(s) Received	Comment
CAP	585,600	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
TOTALS	585,600		0	0		

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Project Budget - Complete the Budget below. Only include unfunded or unsecured funds under each project year. Note: Funded to Date column must equal the amounts listed above here.								
	Completed	Funded to Date	Estimated Costs Not Yet Funded					Total Project Cost
			2018	2019	2020	2021	2022	
Water Rights	N/A	0	0	0	0	0	0	0
Easements and Rights of Way	Yes	0	0	0	0	0	0	0
Acquisition	Yes	0	0	0	0	0	0	0
Archaeological Studies	N/A	0	0	0	0	0	0	0
Environmental Studies	N/A	0	0	0	0	0	0	0
Planning	No	0	27,040	0	0	0	0	27,040
Design (Engr./Arch.)	No	0	44,130	0	0	0	0	44,130
Construction	No	0	514,430	0	0	0	0	514,430
Furnishing/Equipment	N/A	0	0	0	0	0	0	0
TOTALS		0	585,600	0	0	0	0	585,600
Amount Not Yet Funded		585,600						

Can this project be phased? No							
Phase: A project phase is a fundable, standalone, functional or operable stage during the development and/or life of a project.							
Project phases: Unfunded amounts broken down by phase and category.							
Phase	Amount	Plan	Design	Construct	Furnish/Equip	Other (Wtr Rights, Easements, Acq)	# Mos to Complete
1	0	No	No	No	No	No	0
2	0	No	No	No	No	No	0
3	0	No	No	No	No	No	0
4	0	No	No	No	No	No	0
5	0	No	No	No	No	No	0
TOTAL	0						

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Has your local government/agency budgeted for operating expenses for the project when it is completed? No

If no, please explain why: Will be budgeted when the project is funded.

ANNUAL OPERATING BUDGET	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Annual Operating Expenses plus Debt Service	0	0	0	0	0	0
Annual Operating Revenues	0	0	0	0	0	0

Does the project lower operating costs? No

If yes, please explain and provide estimates of operating savings CH2M

Entities who will assume the following responsibilities for this project:	Own:	Operate:	Fiscal Agent:	Own Land:	Own Asset:	Maintain:
	Eldorado Area WSD	CH2M	Eldorado Area WSD	Public Utility Easements	Eldorado Area WSD	CH2M

1. Does the project have life expectancy of 10 or more years? Yes

2. Has the project had public input and buy-in? Yes

3. Is the project necessary to address population or client growth and if so, will it provide services to that population or clientele? Yes

4. Has the land for the project been acquired? Yes

5. Is this project a regional priority? For example, is it supported by more than one local government entity? Yes

If yes, please explain. The project benefits 23 unincorporated communities in Santa Fe County.

6. Are there oversight mechanisms built in that would ensure timely construction and completion of the project on budget? Yes

What department or department head would be in charge of oversight for the project? Provide name(s) of procurement officer(s). The EAWSD General Manager oversees a Project Manager and Engineer who oversee the construction contractor. A Financial Consultant oversees project budgets and expenditures.

7. Do the requested funds complete a fully functional phase of the project or complete a project previously funded by a legislative appropriation? Yes

If yes, please explain. The requested funds would complete a fully functional phase of the project.

8. Other than the temporary construction jobs associated with the project, does the project maintain or advance the region's economy? Yes

If yes, please explain. By making improvements to the water system for the area, the project helps maintain the economy of the area.

9. Does the project benefit all citizens within a recognized region, district or political subdivision? Yes

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If yes, please explain and provide the number of people that will benefit from the project.

The project benefits all customers within the Eldorado Area Water & Sanitation District water service area, serving a population of 6,500.

10. Does the project eliminate a risk or hazard to public health and/or safety that immediately endangers occupants of the premises such that corrective action is urgent and unavoidable? Emergencies must be documented by a Subject Matter Expert.

No

If yes, please explain. (If mandatory, provide Summary Page of the Federal, State or Judiciary Agency who issued the mandate.)

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ICIP Capital Project Description

Year/Rank 2018 002

ID:28351

Project Title: SCADA Additions-Phase 2

Project Type: New

Category: Water Supply

Contact Name: David Chakroff

Contact Phone: 505-466-2531

Contact E-mail: general.manager@EAWSD.org

Project Location: 2 N Chamisa Drive Santa Fe NM 87508

Latitude: 35.523287

Longitude: -105.891171

Legislative Language: To plan, design, construct, and install additional components to the Supervisory Control and Data Acquisition (SCADA) system for Eldorado Area Water and Sanitation District in Santa Fe County.

Description/Scope of Work: This project would plan, design, construct, and install additional components that currently do not exist to the EAWSD Supervisory Control and Data Acquisition (SCADA) system at numerous existing facilities throughout the EAWSD water system to enhance system security and to increase monitoring, metering and operational capabilities of the water system. It would add SCADA components and remote monitoring capability to 21 pressure reducing stations, providing operators immediate notice of a failure of equipment or a major line break so that immediate action can be taken to resolve the problem. It would provide additional site security at remote well sites, pumping stations, and water storage tanks. It would also provide increased operational monitoring and metering capabilities at wells, tanks, pumping stations and other facilities.

Secured and Potential Funding Budget:

State Grant Funding should only be requested when all other funding sources have been exhausted if entity is providing matching funds, i.e. Federal, Local Taxes, Fees, NM Finance Authority Loans (NMFA), Tribal Infrastructure Fund (TIF), Water Trust Board (WTB), Public School Facility Authority (PSFA), Colonia's Infrastructure Board (CIB), etc.

Please complete table below with all secured and potential funding sources.

Funding Source(s)	Funding Amount	Applied For? Yes or No	Amount Secured	Amt Expended to Date	Date(s) Received	Comment
CAP	250,000	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
TOTALS	250,000		0	0		

Project Budget - Complete the Budget below. Only include unfunded or unsecured funds under each project year. Note: Funded to Date column must equal the amounts listed above here.							
Completed	Funded to Date	Estimated Costs Not Yet Funded					Total Project Cost
		2018	2019	2020	2021	2022	

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Water Rights	N/A	0	0	0	0	0	0	0
Easements and Rights of Way	Yes	0	0	0	0	0	0	0
Acquisition	Yes	0	0	0	0	0	0	0
Archaeological Studies	N/A	0	0	0	0	0	0	0
Environmental Studies	N/A	0	0	0	0	0	0	0
Planning	No	0	27,040	0	0	0	0	27,040
Design (Engr./Arch.)	No	0	44,130	0	0	0	0	44,130
Construction	No	0	178,830	0	0	0	0	178,830
Furnishing/Equipment	N/A	0	0	0	0	0	0	0
TOTALS		0	250,000	0	0	0	0	250,000
Amount Not Yet Funded		250,000						

Can this project be phased? No

Phase: A project phase is a fundable, standalone, functional or operable stage during the development and/or life of a project.

Project phases: Unfunded amounts broken down by phase and category.

Phase	Amount	Plan	Design	Construct	Furnish/Equip	Other (Wtr Rights, Easements, Acq)	# Mos to Complete
1	0	No	No	No	No	No	0
2	0	No	No	No	No	No	0
3	0	No	No	No	No	No	0
4	0	No	No	No	No	No	0
5	0	No	No	No	No	No	0
TOTAL	0						

Has your local government/agency budgeted for operating expenses for the project when it is completed? No

If no, please explain why: Will be budgeted when the project is funded.

ANNUAL OPERATING BUDGET	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Annual Operating Expenses plus Debt Service						

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	0	0	0	0	0	0
Annual Operating Revenues	0	0	0	0	0	0
Does the project lower operating costs?	No					
If yes, please explain and provide estimates of operating savings	CH2M					

Entities who will assume the following responsibilities for this project:	Own:	Operate:	Fiscal Agent:	Own Land:	Own Asset:	Maintain:
	Eldorado Area WSD	CH2M	Eldorado Area WSD	Public Utility Easements	Eldorado Area WSD	CH2M

1. Does the project have life expectancy of 10 or more years? Yes
2. Has the project had public input and buy-in? Yes
3. Is the project necessary to address population or client growth and if so, will it provide services to that population or clientele? Yes
4. Has the land for the project been acquired? Yes

5. Is this project a regional priority? For example, is it supported by more than one local government entity? Yes
 If yes, please explain. The project benefits 23 unincorporated communities in Santa Fe County.
6. Are there oversight mechanisms built in that would ensure timely construction and completion of the project on budget? Yes
 What department or department head would be in charge of oversight for the project? Provide name(s) of procurement officer(s). The EAWSD General Manager oversees a Project Manager and Engineer who oversee the construction contractor. A Financial Coordinator oversees project budgets and expenditures.
7. Do the requested funds complete a fully functional phase of the project or complete a project previously funded by a legislative appropriation? Yes
 If yes, please explain. The requested funds would complete a fully functional phase of the project.
8. Other than the temporary construction jobs associated with the project, does the project maintain or advance the region's economy? Yes
 If yes, please explain. By making improvements to the water system for the area, the project helps maintain the economy of the area.
9. Does the project benefit all citizens within a recognized region, district or political subdivision? Yes
 If yes, please explain and provide the number of people that will benefit from the project. The project benefits all customers within the Eldorado Area Water & Sanitation District water service area, serving a population of 6,500.
10. Does the project eliminate a risk or hazard to public health and/or safety that immediately endangers occupants of the premises such that corrective action is urgent and unavoidable? Emergencies must be documented by a Subject Matter Expert. No
 If yes, please explain. (If mandatory, provide Summary Page of the Federal, State or Judiciary Agency who issued the mandate.)

Infrastructure Capital Improvement Plan FY 2018-2022

ICIP Capital Project Description

Year/Rank 2018 003

ID:31992

Project Title: Caballos Trail Distribution Line Replacement

Project Type: Replace Existing

Category: Water Supply

Contact Name: David Chakroff

Contact Phone: 505-466-2531

Contact E-mail: general.manager@EAWSD.org

Project Location: 2 N Chamisa Drive Santa Fe NM 87508

Latitude: 35.510808

Longitude: -105.912264

Legislative Language: To design and construct a replacement water distribution line on Caballos Trail for the Eldorado Area Water and Sanitation District in Santa Fe County.

Description/Scope of Work: This project will design and construct a replacement water distribution line on Caballos Trail in Santa Fe County. The existing 2-inch water line, which provides water service and fire suppression to four residences, is of insufficient size and materials, resulting in frequent water line breaks and leaks. This project would replace the approximately 1/4-mile water line with a new 6" line capable of providing reliable water service and proper fire flow to the area.

Secured and Potential Funding Budget:						
State Grant Funding should only be requested when all other funding sources have been exhausted if entity is providing matching funds, i.e. Federal, Local Taxes, Fees, NM Finance Authority Loans (NMFA), Tribal Infrastructure Fund (TIF), Water Trust Board (WTB), Public School Facility Authority (PSFA), Colonia's Infrastructure Board (CIB), etc.						
Please complete table below with all secured and potential funding sources.						
Funding Source(s)	Funding Amount	Applied For? Yes or No	Amount Secured	Amt Expended to Date	Date(s) Received	Comment
CAP	247,500	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
TOTALS	247,500		0	0		

Project Budget - Complete the Budget below. Only include unfunded or unsecured funds under each project year. Note: Funded to Date column must equal the amounts listed above here.								
	Completed	Funded to Date	Estimated Costs Not Yet Funded					Total Project Cost
			2018	2019	2020	2021	2022	
Water Rights	N/A	0	0	0	0	0	0	0

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Easements and Rights of Way	Yes	0	0	0	0	0	0	0
Acquisition	Yes	0	0	0	0	0	0	0
Archaeological Studies	N/A	0	0	0	0	0	0	0
Environmental Studies	N/A	0	0	0	0	0	0	0
Planning	No	0	12,000	0	0	0	0	12,000
Design (Engr./Arch.)	No	0	56,100	0	0	0	0	56,100
Construction	No	0	179,400	0	0	0	0	179,400
Furnishing/Equipment	N/A	0	0	0	0	0	0	0
TOTALS		0	247,500	0	0	0	0	247,500
Amount Not Yet Funded		247,500						

Can this project be phased? No

Phase: A project phase is a fundable, standalone, functional or operable stage during the development and/or life of a project.

Project phases: Unfunded amounts broken down by phase and category.

Phase	Amount	Plan	Design	Construct	Furnish/Equip	Other (Wtr Rights, Easements, Acq)	# Mos to Complete
1	0	No	No	No	No	No	0
2	0	No	No	No	No	No	0
3	0	No	No	No	No	No	0
4	0	No	No	No	No	No	0
5	0	No	No	No	No	No	0
TOTAL	0						

Has your local government/agency budgeted for operating expenses for the project when it is completed? No

If no, please explain why: Will be budgeted when the project is funded.

ANNUAL OPERATING BUDGET	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Annual Operating Expenses plus Debt Service	0	0	0	0	0	0
Annual Operating Revenues						

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ICIP Capital Project Description

Year/Rank 2018 004

ID:20127

Project Title: Meter Replacement w/Cellular Technology-FY18

Project Type: Replace Existing

Category: Water Supply

Contact Name: David Chakroff

Contact Phone: 505-466-2531

Contact E-mail: general.manager@EAWSD.org

Project Location: 2 N Chamsa Drive Santa Fe NM 87508

Latitude: 35.523287

Longitude: -105.891171

Legislative Language: Construct and install a cellular technology, Automatic Meter Reading (AMR) system (smart meters) for customers of the Eldorado Area Water and Sanitation District (EAWSD) in Santa Fe County.

Description/Scope of Work: This project would continue EAWSD transition from a manual, direct-read meter system to a cellular technology, Automatic Meter Reading (AMR) system by constructing and installing new, electronic smart meters for cellular reading. EAWSD urgently needs to replace the remaining residential and commercial manual-read meters, more than one-third of which are over 15 years old. Industry best practices indicate that water meters should be replaced every 10 to 15 years, and EAWSD is currently implementing a 15 year replacement schedule. About 2,000 smart meters will have been installed by the end of FY17, representing about 67% of customer meters in the system. The proposed project would install 600 smart meters, bringing the total number of replaced meters in the system to 2,600 or about 87%. The AMR system significantly reduces meter reading costs and meter reading errors and allows customers to better monitor water use, thus improving customer water use efficiency and conservation.

Secured and Potential Funding Budget:

State Grant Funding should only be requested when all other funding sources have been exhausted if entity is providing matching funds, i.e. Federal, Local Taxes, Fees, NM Finance Authority Loans (NMFA), Tribal Infrastructure Fund (TIF), Water Trust Board (WTB), Public School Facility Authority (PSFA), Colonia's Infrastructure Board (CIB), etc.

Please complete table below with all secured and potential funding sources.

Funding Source(s)	Funding Amount	Applied For? Yes or No	Amount Secured	Amt Expended to Date	Date(s) Received	Comment
CAP	350,000	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
TOTALS	350,000		0	0		

Project Budget - Complete the Budget below. Only include unfunded or unsecured funds under each project year. Note: Funded to Date column must equal the amounts listed above here.

_____ **Estimated Costs Not Yet Funded** _____

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	Completed	Funded to Date	2018	2019	2020	2021	2022	Total Project Cost
Water Rights	N/A	0	0	0	0	0	0	0
Easements and Rights of Way	Yes	0	0	0	0	0	0	0
Acquisition	Yes	0	0	0	0	0	0	0
Archaeological Studies	N/A	0	0	0	0	0	0	0
Environmental Studies	N/A	0	0	0	0	0	0	0
Planning	Yes	0	0	0	0	0	0	0
Design (Engr./Arch.)	Yes	0	0	0	0	0	0	0
Construction	No	0	350,000	0	0	0	0	350,000
Furnishing/Equipment	N/A	0	0	0	0	0	0	0
TOTALS		0	350,000	0	0	0	0	350,000
Amount Not Yet Funded		350,000						

Can this project be phased? No

Phase: A project phase is a fundable, standalone, functional or operable stage during the development and/or life of a project.

Project phases: Unfunded amounts broken down by phase and category.

Phase	Amount	Plan	Design	Construct	Furnish/Equip	Other (Wtr Rights, Easements, Acq)	# Mos to Complete
1	0	No	No	No	No	No	0
2	0	No	No	No	No	No	0
3	0	No	No	No	No	No	0
4	0	No	No	No	No	No	0
5	0	No	No	No	No	No	0
TOTAL	0						

Has your local government/agency budgeted for operating expenses for the project when it is completed? No

If no, please explain why: Will be budgeted when the project is funded.

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ANNUAL OPERATING BUDGET	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Annual Operating Expenses plus Debt Service	0	0	0	0	0	0
Annual Operating Revenues	0	0	0	0	0	0
Does the project lower operating costs? Yes						
If yes, please explain and provide estimates of operating savings	CH2M					

Entities who will assume the following responsibilities for this project:	Own:	Operate:	Fiscal Agent:	Own Land:	Own Asset:	Maintain:
	Eldorado Area WSD	CH2M	Eldorado Area WSD	Public Utility Easements	Eldorado Area WSD	CH2M

1. Does the project have life expectancy of 10 or more years? Yes
2. Has the project had public input and buy-in? Yes
3. Is the project necessary to address population or client growth and if so, will it provide services to that population or clientele? Yes
4. Has the land for the project been acquired? Yes

5. Is this project a regional priority? For example, is it supported by more than one local government entity? Yes
 If yes, please explain. The project benefits 23 unincorporated communities in Santa Fe County.
6. Are there oversight mechanisms built in that would ensure timely construction and completion of the project on budget? Yes
 What department or department head would be in charge of oversight for the project? Provide name(s) of procurement officer(s).
 The EAWSD General Manager oversees a Project Manager and Engineer who oversee the construction contractor. A Financial Consultant oversees project budgets and expenditures.
7. Do the requested funds complete a fully functional phase of the project or complete a project previously funded by a legislative appropriation? Yes
 If yes, please explain. The requested funds would complete a fully functional phase of the project.
8. Other than the temporary construction jobs associated with the project, does the project maintain or advance the region's economy? Yes
 If yes, please explain. By making improvements to the water system for the area, the project helps maintain the economy of the area.
9. Does the project benefit all citizens within a recognized region, district or political subdivision? Yes
 If yes, please explain and provide the number of people that will benefit from the project.
 The project benefits all customers within the Eldorado Area Water & Sanitation District water service area, serving a population of 6,500.
10. Does the project eliminate a risk or hazard to public health and/or safety that immediately endangers occupants of the premises such that corrective action is urgent and unavoidable? Emergencies must be documented by a Subject Matter Expert. No

Infrastructure Capital Improvement Plan FY 2018-2022

If yes, please explain. (If mandatory, provide Summary Page of the Federal, State or Judiciary Agency who issued the mandate.)

Infrastructure Capital Improvement Plan FY 2018-2022

ICIP Capital Project Description

Year/Rank 2018 005

ID:28359

Project Title: Well, Tank & Booster Station Improvements-Phase 1

Project Type: Renovate/Repair

Category: Water Supply

Contact Name: David Chakroff

Contact Phone: 505-466-2531

Contact E-mail: general.manager@EAWSD.org

Project Location: 2 N Chamisa Drive Santa Fe NM 87508

Latitude: 35.523287

Longitude: -105.891171

Legislative Language: To plan, design, and construct improvements to Eldorado Area Water and Sanitation District (EAWSD) wells, tanks and booster stations in Santa Fe County.

Description/Scope of Work: This project would plan, design, and construct needed improvements to wells, tanks and booster stations throughout the EAWSD water system. It could include the following improvements: (1) electrical improvements for Well No. 9, (2) installation of variable frequency drives at Wells 7 and 9, (3) a stationary emergency power source for Booster Station No. 1, (4) a portable emergency generator to operate one major production well during power outages, (5) addition of tank mixing technology to six water storage tanks to reduce water aging in the tanks and improve the quality of water delivered to customers, (6) cathodic corrosion protection to reduce maintenance costs and extend the useful life of four existing water storage tanks, and (7) safety and security equipment at a number of facilities, including improved fencing and safe-access hatches for vaults.

Secured and Potential Funding Budget:

State Grant Funding should only be requested when all other funding sources have been exhausted if entity is providing matching funds, i.e. Federal, Local Taxes, Fees, NM Finance Authority Loans (NMFA), Tribal Infrastructure Fund (TIF), Water Trust Board (WTB), Public School Facility Authority (PSFA), Colonia's Infrastructure Board (CIB), etc.

Please complete table below with all secured and potential funding sources.

Funding Source(s)	Funding Amount	Applied For? Yes or No	Amount Secured	Amt Expended to Date	Date(s) Received	Comment
CAP	250,000	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
	0	No	0	0		
TOTALS	250,000		0	0		

Project Budget - Complete the Budget below. Only include unfunded or unsecured funds under each project year. Note: Funded to Date column must equal the amounts listed above here.

	Completed	Funded to Date	Estimated Costs Not Yet Funded				Total Project Cost
			2018	2019	2020	2021	

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Water Rights	N/A	0	0	0	0	0	0	0
Easements and Rights of Way	Yes	0	0	0	0	0	0	0
Acquisition	Yes	0	0	0	0	0	0	0
Archaeological Studies	N/A	0	0	0	0	0	0	0
Environmental Studies	N/A	0	0	0	0	0	0	0
Planning	No	0	25,000	0	0	0	0	25,000
Design (Engr./Arch.)	No	0	45,000	0	0	0	0	45,000
Construction	No	0	180,000	0	0	0	0	180,000
Furnishing/Equipment	N/A	0	0	0	0	0	0	0
TOTALS		0	250,000	0	0	0	0	250,000
Amount Not Yet Funded		250,000						

Can this project be phased? No

Phase: A project phase is a fundable, standalone, functional or operable stage during the development and/or life of a project.

Project phases: Unfunded amounts broken down by phase and category.

Phase	Amount	Plan	Design	Construct	Furnish/Equip	Other (Wtr Rights, Easements, Acq)	# Mos to Complete
1	0	No	No	No	No	No	0
2	0	No	No	No	No	No	0
3	0	No	No	No	No	No	0
4	0	No	No	No	No	No	0
5	0	No	No	No	No	No	0
TOTAL	0						

Has your local government/agency budgeted for operating expenses for the project when it is completed? No

If no, please explain why: Will be budgeted when project is funded.

ANNUAL OPERATING BUDGET	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Annual Operating Expenses plus Debt Service						

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	0	0	0	0	0	0
Annual Operating Revenues	0	0	0	0	0	0
Does the project lower operating costs?	No					
If yes, please explain and provide estimates of operating savings	CH2M					

Entities who will assume the following responsibilities for this project:	Own:	Operate:	Fiscal Agent:	Own Land:	Own Asset:	Maintain:
	Eldorado Area WSD	CH2M	Eldorado Area WSD	Eldorado Area WSD	Eldorado Area WSD	CH2M

1. Does the project have life expectancy of 10 or more years? Yes
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 If yes, please explain. (If mandatory, provide Summary Page of the Federal, State or Judiciary Agency who issued the mandate.)