

Abridged Application

VED SWIFT@twdb.texas.gov

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By submitting this abridged application, you understand and confirm that the information provided is true and correct to the best of your knowledge and further understand that the failure to submit a complete abridged application by the stated deadlines, or to respond in a timely manner to additional requests for information, may result in the withdrawal of the abridged application without review.

GENERAL INFORM	MATION	的复数水外制度 合于3		· 如此的意思。						
	Nam	ne of Entity		County	Regional W	Water Planning Area				
	Harris Co	ounty MUD #50		Harris	Н					
			Entity Contact Infor	mation						
Name Mr. Carl		Mr. Carl D. McConr	ИсConnell, PE, PMP							
Contact Person	Title	District Engineer								
		Dannenbaum Engin	eering Corporation							
Mailing Address		3100 West Alabama								
		Houston, Texas 770	98	2						
Phone Num	ber	713-527-6384		Fax Number						
Email Addr	ess	Carl.Mcconnell@da	nnenbaum.com							
PROJECT DESCRI	PTION									
Name of Project (As it appears in the 2016 regional water plan)			Municipal Conservation, Harris County MUD #50							
Where can the project be found in the most recent Regional Water Plan?			Project described on page:	Project described on page: 5-B-CNSV-003-2		5-A-104				
		Please attach a list o	of all water systems se	erved by the propose	d project.					
Phase(s) Applied For			⊠ Planning	🗷 Acquisition	⊠ Construction					

Phase(s) Applied For		Acquisition	⊠ Design	
Population Served When Fully Operational	4,900			

Description of Proposed Project

Harris County MUD #50 is submitting this application for the acquisition of land and construction of a 8,200 ft2 building that will serve as a water education center and also provide administrative offices for MUD #50 staff. The proposed building program will include the following:

- Community room to house public meetings, MUD #50 Board meetings, water conservation workshops, and community events;
- Indoor education facility, providing "hands on" experience with water conservation devices, computer kiosks promoting TWDB's "WaterIQ: Know Your Water" platform, and documenting our water conservation progress to meet our targets for both the Region H plan and the subsidence district;
- Outdoor education facility, providing "hands on" experience with different landscape options and irrigation systems (e.g., drip irrigation, multi-stream rotational heads), including rainwater harvesting;
- Water and energy efficient fixtures both inside and outside the building, including plumbing fixtures, landscape, rainwater harvesting, lighting, HVAC, and building envelope;
- Signage to highlight the water and energy benefits of installed water and energy efficient fixtures; and .



Abridged Application

Due February 5, 2016 by 5:00pm SWIFT@twdb.texas.gov

• Administrative offices for MUC #50 staff.

The Region H water plan lists a series of water conservation measures to achieve municipal conservation savings on 5-B-CNSV-003-2, all of which will either be installed or promoted at the proposed water education center. The plan also notes that the "list of practices and recommended strategy are not intended to be exhaustive of all practices that may be employed to reduce municipal water use," and that outreach and education is a part of 70%-80% of WUGs in Region H. This application creates an educational facility that can take advantage of the debt financing offered by SWIFT to target our municipal conservation savings goals.

The original cost estimate for municipal conservation for Harris County MUD #50 was based on the Alliance for Water Efficiency cost effectiveness tool (see page 5-B-CNSV-003-6). The proposed cost takes into account MUD #50's specific scope of work, understanding that this is a MUD #50 asset eligible for debt financing. We will pursue an amendment as necessary to the State Water Plan to reflect the actual capital cost of our proposal. We will pursue this amendment in parallel with the TWDB's review of our application and, hopefully, the development of our final application.

Emergency (select all that apply) Agricultural Efficiency Project?			 Applicant/entity's water supply will last less than 180 days. Water supply need occurs earlier than anticipated in the State Water Plan. Applicant has received or applied for Federal emergency funding. None of the above. Efficiency improvement achieved by implementing the project (<i>Please provide an attachment showing the basis for your calculation.</i>) Yes Yes 1%-1.9% 14%-17.9% ≥18% 					
(Household Cost Factor for SWIFT prioritization is calculated b For regional projects, these shou Estimated average annual \$401.88			Household y dividing the serv Ild represent the c	Cost Factor vice area's average residential water bill by ombined service areas of all participating e Annual Median Household Income:	its annual median household income. entities.) \$30,789			
The proposed project addresses:			onservation ater Loss /A	Annual Volume of Water Produced/Conserved by the Project (in acre-feet per year)	2 acre-feet per year starting in 2020, and reaching 10 acre- feet per year (or 3.8% of water demand) by 2040. (See page 5- A-76 of the Region H plan).			
Readiness to Proceed (select all that apply)			 Preliminary planning or design work (30% of total project) has been completed or is not required. Applicant is prepared to begin implementation or construction within 18 months of application deadline. Applicant has acquired all water rights associated with the proposed project, or none will be required. 					
ESTIMATED C	OSTS							
Estimated	d Low-interest Loan			\$ 1,300,000.00				
Project Costs	Board Participation			\$ \$				
		CONTRACT, DAVIDA STORE		L				



			-	
	Local Co	ontribution	\$	
	Other:		\$	
Total Estimated Project Costs			\$ 1,300,000.00	
Anticipated Commitments Attach proposed schedule for multi-year commitments		Commitments for multi-year commitments	Image: One-Time Commitment	Multi-Year Commitments

HC MUD 50 - AMI Water Meter System

	Item		Unit	Unit Price	Total Price	
	Construction					
1	AMI Pilot Kit - Includes Panasonic Toughbook, software package,					
	25 "No Lead" brass meters with Tesla4 Register, 3 month on site					
	training, and network collector	1	EA	\$ 23,000	\$	23,000
2	5/8"x3/4" "No Lead" brass meters with Tesla4 registers	1,025	EA	\$ 210	\$	215,250
3	Retro-Fit with register only, includes universal adapter	375	EA	\$ 180	\$	67,500
4	Extended Antenna - Flush Mount with Meter Lid	1,400	EA	\$ 25	\$	35,000
5	Cost per meter per year for AMI Fee	1,400	EA	\$ 2	\$	2,100
6	6" Turbine Meter for Water Wells	2	EA	\$ 2,300	\$	4,600
7	8" Turbine Meter for Water Wells	1	EA	\$ 2,735	\$	2,735
8	Install cost per 5/8"x3/4" meter, with Cast Iron lid. Work done					
	by RG3 Utilities	1,025	EA	\$ 42	\$	43,050
9	Network Fixed Base Collector with install cost included, as					
	needed	1	EA	\$ 26,200	\$	26,200
10	Network Fixed Base Repeater with install cost included, as					
	needed	1	EA	\$ 3,810	\$	3,810
	Total Construction				\$	423,245
	Contingency				\$	26,755
	Engineering				\$	50,000
	Costs Associated with Bond Issuance				\$	40,000
	Total Project Cost				\$	540,000

	Item	QTY	Unit	Unit Price	Total Price
	Construction				
1	Building	8200	SQFT	\$ 110	\$ 902,000
2	Site Improvements	1	LS	\$ 98,000	\$ 98,000
	Total Construction				\$ 1,000,000
	Property Acquisition				\$ 30,000
	Architecture/Engineering				\$ 110,000
	Survey				\$ 25,000
	Geotechnical/Material Testing				\$ 25,000
	Environmental				\$ 10,000
	Bond Issuance Costs				\$ 100,000
	Total Project Cost				\$ 1,300,000

HC MUD 50 - Water Education Center and Administrative Offices