



**State Water Implementation
Fund for Texas**

Abridged Application

Due by midnight on February 1, 2021

Submit via Email: SWIFT@twdb.texas.gov

Apply Online: <https://ola.twdb.texas.gov>

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 INFORMATION

Entity Name	County	Regional Water Planning Area
City of Mission	Hidalgo	M - Rio Grande

Contact Who should TWDB contact with questions during the review of this submission?	Name	Roberto Salinas
	Title	Public Works Director
	Phone	(956) 580-8788
	Email	rsalinas@missiontexas.us

PROJECT DESCRIPTION

Project Name As it appears in your region's 2021 Regional Water Plan	MISSION BRACKISH GROUNDWATER DESALINATION PLANT		
Where can the project be found in the 2021 Regional Water Plan?	The project is described on page #:	460-461	
	The capital cost is listed on page #:	461-462	
Phase(s) Applied For	<input checked="" type="checkbox"/> Planning	<input checked="" type="checkbox"/> Acquisition	<input checked="" type="checkbox"/> Design <input checked="" type="checkbox"/> Construction
Population Served When Fully Operational	93,065		

DESCRIPTION OF PROPOSED PROJECT COMPONENTS

Please be sure this description includes all major project components and clearly states what the project seeks to accomplish. A high level of detail is not necessary at this stage—such information is collected later in the application process—but the description should make clear that the proposed work is the same as identified in the regional water plan.

The City of Mission in accordance with the 2021 Rio Grande Regional (Region M) Water Planning Group, would like to seek TWDB funding for the purpose of a 3.0 MGD Brackish Groundwater Project to meet future area water demand needs. This project subject to prioritization of the recommended water management strategies in the 2021 Regional Water Plan.

The Planning Phase of the Project will determine feasibility of using existing wells in the area that meet TCEQ Public Water Supply (PWS) construction standards and/or drilling new source ground water wells. In addition, the planning phase would identify the location of the facility, type of brackish desalination treatment strategy and evaluate the costs. This approach promotes the use of groundwater to lower our dependence of surface water from the Rio Grande. Specifically, the City of Mission could forgo the cost of buying water rights and associated diversion fees and would provide neighboring systems with emergency use interconnections.

The description of proposed project is as follows:

The Brackish Groundwater Plant would be equipped with three ground water wells (existing or new), Reverse Osmosis System with redundancy, one 2 MG Concrete Ground Storage Tank and Two High Service Water Distribution Pumps. In addition to the above, capital costs would include: Land acquisition, building structures, equipment, electric utilities, Chemical storage, waste concentrate/residual disposal.

The proposed project would provide the City of Mission with an additional 3.0 MGD of treated groundwater capacity that is equivalent to providing the TCEQ minimum required capacity of 0.6 gpm/connection to serve about 3,472 water meters and a population of about 10,416 customers. Furthermore, this project would provide an annual savings of 3,360 acre-feet of raw water that would have otherwise been diverted from the Rio Grande.

Emergency Select all that apply	<input type="checkbox"/> Applicant/entity's water supply will last less than 180 days. <input type="checkbox"/> Applicant has received or applied for Federal emergency funding. <input checked="" type="checkbox"/> None of the above.
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Agricultural Efficiency Project?	
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

If "Yes," agricultural efficiency improvement achieved by implementing the project: Please provide an attachment showing the basis for your calculation.	<input type="checkbox"/> <1%	<input type="checkbox"/> 10%-13.9%
	<input type="checkbox"/> 1%-1.9%	<input type="checkbox"/> 14%-17.9%
	<input type="checkbox"/> 2%-5.9%	<input type="checkbox"/> ≥18%
	<input type="checkbox"/> 6%-9.9%	

Household Cost Factor	
Household Cost Factor calculated by dividing the service area's average residential water bill by its annual median household income. For regional projects, these should represent the combined service areas of all participating entities.	

Estimated average annual residential water bill:	\$650.00	Annual Median Household Income:	\$48,815.00
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The proposed project addresses:	<input checked="" type="checkbox"/> Conservation	<input type="checkbox"/> Water Loss	<input type="checkbox"/> N/A
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Volume of Water Produced/Conserved (in Acre/Feet per Year)					
Please provide the total water supply project yield of the entire project on an annual basis in acre-feet per year, for each planning decade. A water volume in the 2040 decade, for example, is assumed to come online in or prior to the year 2040 but is a snapshot annual volume for that decade; it is not a sum of the annual use in the decade.					

2020	2030	2040	2050	2060	2070
3,360	3,360				

Readiness to Proceed Select all that apply	<input type="checkbox"/> Preliminary planning or design work (30% of total project) has been completed or is not required. <input type="checkbox"/> Applicant is prepared to begin implementation or construction within 18 months of application deadline. <input checked="" type="checkbox"/> Applicant has acquired all water rights associated with the proposed project, or none will be required.
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ESTIMATED COSTS

Low-interest Loan	\$ 25,000,000
Deferred Loan	\$
Board Participation	\$
Local Contribution	\$
Other:	\$
Total Estimated Project Costs	\$ 25,000,000

Anticipated Commitments Please attach proposed schedule for multi-year commitments.	<input checked="" type="checkbox"/> One-Time Commitment	<input type="checkbox"/> Multi-Year Commitments
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Anticipated Debt Service Structure Please attach explanation if requesting non-level debt service.	<input checked="" type="checkbox"/> Level	<input type="checkbox"/> Other Request
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LIST OF WATER SYSTEMS SERVED BY THE PROPOSED PROJECT

NAME	PWS ID
Interconnection w/ Agua SUD	1080022

ATTACHMENTS CHECKLIST

- Methodology for determining agricultural conservation savings (if applicable)
- Proposed multi-year commitment schedule (if applicable)
- Proposed debt service structure (if applicable)

SUBMITTAL

Instructions	To submit your Abridged Application via email, please send this form to SWIFT@twdb.texas.gov .
	To submit your Abridged Application using TWDB's Online Loan Application tool, please visit https://ola.twdb.texas.gov .
TWDB Contact Information	If you would like to schedule a meeting to discuss your project with TWDB staff, please contact the Regional Project Development Team for your region: http://www.twdb.texas.gov/financial/programs/swift/regional_project_teams.asp .
	For general SWIFT program inquiries, please email SWIFT@twdb.texas.gov .