



Abridged Application **RECEIVED**

Due February 5, 2016 by 5:00pm

SWIFT@twdb.texas.gov

2016 FEB -5 P 4: 35

TWDB

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

Name of Entity	County	Regional Water Planning Area
Central Texas Regional Water Supply Corporation / San Antonio Water System	CTRWSC office located in: Travis Serving: Bexar Crossing through: Burlleson/Barstrop/Lee/Caldwell/Guadalupe/Comal	Region L/G

Entity Contact Information

Contact Person	Name	Joaquin Abaurre Benjumea		
	Title	Vice-President-Secretary-Treasurer		
Mailing Address	40 NE Loop 410 Mercantile Building, Suite 343			
	San Antonio, TX 78216			
Phone Number	(210) 979 4700	Fax Number	(210) 979 0995	
Email Address	secretary@ctrwsc.org			

PROJECT DESCRIPTION

Name of Project <i>(As it appears in the 2016 regional water plan)</i>	SAWS - VISTA RIDGE PROJECT			
Where can the project be found in the most recent Regional Water Plan?	Project described on page:	5.2.23-1	Capital costs listed on page:	5.2.23-12

Please attach a list of all water systems served by the proposed project.

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	1,910,000			



Abridged Application

Due February 5, 2016 by 5:00pm

SWIFT@twdb.texas.gov

Description of Proposed Project
<p>See Supplemental Pages for:</p> <p>List of Water Systems Served by the Project</p> <p>Population Served</p> <p>Regionalization</p> <p>Project Description</p> <p>Conservation and Water Loss Benefits</p> <p>Project Financing Request (multi-year loan schedule)</p>

Emergency <i>(select all that apply)</i>	<input type="checkbox"/> Applicant/entity's water supply will last less than 180 days. <input type="checkbox"/> Water supply need occurs earlier than anticipated in the State Water Plan. <input type="checkbox"/> Applicant has received or applied for Federal emergency funding. <input checked="" type="checkbox"/> None of the above.
--	--

Agricultural Efficiency Project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Efficiency improvement achieved by implementing the project <i>(Please provide an attachment showing the basis for your calculation.)</i>	<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 for SWIFT prioritization is 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:	\$384.96	Annual Median Household Income:	\$50,075
---	----------	--	----------

The proposed project addresses:	<input checked="" type="checkbox"/> Conservation <input checked="" type="checkbox"/> Water Loss <input type="checkbox"/> N/A	Annual Volume of Water Produced/Conserved by the Project <i>(in acre-feet per year)</i>	50,000 Produced 5,000 Conserved
--	--	---	------------------------------------

Readiness to Proceed <i>(select all that apply)</i>	<input checked="" type="checkbox"/> Preliminary planning or design work (30% of total project) has been completed or is not required. <input checked="" 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.
---	---

ESTIMATED COSTS		
Estimated Project Costs	Low-interest Loan	TOTAL: \$ 885,000,000 2016: \$380,000,000 2017: \$350,000,000 2018: \$100,000,000



Abridged Application

Due February 5, 2016 by 5:00pm

SWIFT@twdb.texas.gov

		2019: \$55,000,000
	Deferred Loan	\$
	Board Participation	\$
	Local Contribution	\$
	Other:	\$
	Total Estimated Project Costs	\$ 885,000,000
Anticipated Commitments <i>Attach proposed schedule for multi-year commitments</i>		<input type="checkbox"/> One-Time Commitment <input checked="" type="checkbox"/> Multi-Year Commitments

Supplement to Abridged SWIFT Application SAWS Vista Ridge Project

I. LIST OF ALL WATER SYSTEMS

The Public Water Systems that SAWS currently serves are listed below. Because of the interconnectivity within SAWS' system, the proposed water source will benefit all public water systems served by SAWS.

No.	PWS ID	Entity	Rural?
1	PWS-0150018	SAWS	
2	PWS-0150350	Concept Therapy Institute	
3	PWS-0150249	SAWS Southside	
4	PWS-0150084	SAWS Northeast	
5	PWS-0150045	SAWS Castle Hills	
6	PWS-0150497	SAWS Texas Research Park	
7	PWS-0150072	SAWS Meadowood Acres	
8	PWS-0150545	SAWS Mountain Laurel	
9	PWS-0150052	SAWS Geronimo Forest	
10	PWS-1630039	SAWS Westview	
11	PWS-0150399	The Oaks WSC	
12	PWS-0150082	East Central SUD Palm Park Water	Y
13	PWS-0150138	East Central SUD	Y
14	PWS-0150048	City of Elmendorf	Y
15	PWS-0150114	Lackland Air Force Base	
16	PWS-0150275	Lackland Air Force Base Annex	
17	PWS-1630032	Lackland AFB Recreation Camp (Medina Co.)	
18	PWS-0150116	Fort Sam Houston	
19	PWS-0150118	Fort Sam Houston Camp Bullis	

II. POPULATION SERVED BY THE PROJECT

SAWS' system is projected to serve a population of 1,910,000 when the project is complete and goes into service in 2020. The 50,000 AFY of water supplied by the project will meet the needs of approximately 368,145 people based on SAWS' demand of 121.2 gallons per capita day (gpcd).

III. REGIONALIZATION

In addition to meeting the needs of SAWS' customers, the SAWS Vista Ridge Project is identified to help meet the human and economic needs of regional rural areas in both Hays County and Williamson County through the wholesale purchase of water.

In the 2016 Region L Plan, (Section 5.3.12.13 Rural Area Residential and Commercial), the wholesale purchase of water from SAWS' Vista Ridge Project "can provide 3,781 AFY of supply in 2020 and 5,000 AFY in all decades thereafter."

Additionally, in the 2016 Region G Plan, (Section 5.36.25 County-Other), one option for Williamson County is that "this project will contract to purchase 5,700 AFY from Vista Ridge Project sponsored by San Antonio Water System."

SAWS has initiated dialog with numerous water supply entities along the proposed pipeline route from Comal to Williamson Counties regarding the opportunity for the purchase of wholesale water from the Vista Ridge pipeline.

IV. PROJECT DESCRIPTION

Project Purpose. The Project is intended to provide 50,000 AFY of a new, non-Edwards Aquifer water supply to meet SAWS' needs arising from projected population growth in San Antonio as well as needs of prospective regional entities to whom SAWS will wholesale water.

Water Source and Permits. The water supply will be pumped from the Simsboro and Carrizo aquifers via 18 wells in Bureson County. Drilling & Operating permits and Transportation permits issued by Post Oak Savannah Groundwater Conservation District (POSGCD) for the entire 50,000 AFY of proposed production are currently in place. Water rights from 50,000 acres of land have been acquired and are dedicated to the project; 25,000 acres of leases are necessary to permit the 50,000 AFY supply at the current permitted production rate of 2 AFY/acre. The 25,000-acre balance of water rights are being held in reserve and available to be permitted to maintain 50,000 AFY permits in the event that POSGCD would reduce the AFY/acre production rate.

Project Infrastructure. The water will be delivered to northern San Antonio via 140 miles of 48-inch to 60-inch diameter transmission pipeline. Water produced from the wells will be collected and treated to reduce temperature, disinfect the water, and chemically modify saturation indices to minimize scaling potential. A high service pump station at the treatment site and two booster pump stations downstream are proposed to overcome pipeline friction losses and approximately 600 feet of static head. All pump stations are proposed to include ground storage tanks and disinfection systems to provide residual disinfection in the pipeline.

The water delivery point for SAWS' system will consist of terminal ground storage tank(s) and flow metering. Delivery points to SAWS' regional wholesale customers will be located upstream where required by those customers.

Project Schedule. The project is divided into Development and Construction phases. The Development Phase is currently underway and consists of planning, aquifer studies, acquisition, permitting, preliminary engineering, and a small degree of detailed design. The Construction Phase will involve detailed design broken up into multiple packages and immediate construction of infrastructure as design

packages are completed. Completion of the Development Phase and beginning of the Construction Phase is anticipated in the fall of 2016. The project is anticipated to go on line and be fully operational in early 2020.

Progress to Date. The following Development Phase work has been completed:

- Preliminary hydraulic engineering has been performed
- Aquifer test and pilot wells have been drilled and pump tested to establish water quality and local aquifer characteristics
- The pipeline alignment easements and pump station sites have been identified
- Right of entry for all parcels to be acquired has been secured
- Acquisition offers have gone out on approximately 90 properties
- Environmental studies have been conducted
- Preliminary pipe specifications have been developed
- Pre-Construction Notice has been filed with the Army Corp of Engineers regarding waters of the US
- Central Texas Regional Water Supply Corporation has filed for and received a PWS number from TCEQ

V. CONSERVATION AND WATER LOSS

In addition to SAWS exemplary conservation record over the last 20 years, the Vista Ridge project will benefit the Edwards Aquifer Habitat Conservation Plan (EAHCP) by removing 50,000 acre-feet per year of water demand off the Edwards Aquifer. This project will help preserve Edwards spring flows and Federally-listed endangered species.

SAWS partnership with this Federal program is also enabling SAWS to accelerate leak repair efforts, conserving another almost 5,000 acre-feet per year from the Edwards Aquifer. Based on an average annual water demand of 237,155 AFY, the conservation associated with leak repairs that the EAHCP partnership will enable represents 2.1% of SAWS' average system demand over the last four years. (Note: 237,155 AFY includes demand from the DSP (Bexar Met Water) system that SAWS has recently absorbed. Excluding DSP demand, SAWS' four-year average has been 210,159 AFY)

Together, these conservation benefits associated with the project will reduce SAWS draw from the Edwards Aquifer by almost 30%, generating spring flow that protects endangered species, benefits the environment, and supports wildlife habitat all the way to San Antonio Bay.

VI. PROJECT FINANCING REQUEST

Costs for Development Phase work and any Construction Phase work occurring before the SWIFT financial close date will be cash funded or financed through temporary loans. All Development and Construction Phase costs including refinancing of any temporary loans are requested to be financed through multi-year SWIFT low interest loans.

Because the project Construction Phase is anticipated to occur over a period of approximately 42 months, a multi-year commitment is requested in the amounts indicated below. The amounts include a total of \$700 million of development and construction cost, 10% contingency, plus capitalization of debt service payments through completion of the Construction Phase.

SCHEDULE FOR MULTI-YEAR COMMITMENT

SWIFT 2016 Round (November 2016)	\$380,000,000
SWIFT 2017 Round (November 2017)	\$350,000,000
SWIFT 2018 Round (November 2018)	\$100,000,000
SWIFT 2019 Round (November 2019)	\$55,000,000
Total	\$885,000,000