



# Application

## Abridged

Due February 5, 2016 by 5:00pm

SWIFT@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

Name of Entity	County	Regional Water Planning Area
San Antonio Water System	Bexar	L, G

### Entity Contact Information

Contact Person	Name	Andrea Beymer		
	Title	Interim Director - Engineering		
Mailing Address	PO Box 2449			
	San Antonio, TX 78298			
Phone Number	(210) 233-3490	Fax Number	(210) 233-5490	
Email Address	Andrea.Beymer@saws.org			

### PROJECT DESCRIPTION

Name of Project <i>(As it appears in the 2016 regional water plan)</i>	SAWS Vista Ridge Integration Project			
Where can the project be found in the most recent Regional Water Plan?	Project described on page:	5.2.3-3	Capital costs listed on page:	5.2.3-5

*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			

### Description of Proposed Project

See Supplemental Pages for Project Description





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<b>Emergency</b> <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.
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<b>Agricultural Efficiency Project?</b>	<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%
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**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.)*

<b>Estimated average annual residential water bill:</b>	\$384.96	<b>Annual Median Household Income:</b>	\$50,075
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<b>The proposed project addresses:</b>	<input checked="" type="checkbox"/> Conservation <input checked="" type="checkbox"/> Water Loss <input type="checkbox"/> N/A	<b>Annual Volume of Water Produced/Conserved by the Project</b> <i>(in acre-feet per year)</i>	50,000 Produced 5,000 Conserved
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<b>Readiness to Proceed</b> <i>(select all that apply)</i>	<input 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.
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**ESTIMATED COSTS**

<b>Estimated Project Costs</b>	Low-interest Loan	\$ 127,310,193	
	Deferred Loan	\$	
	Board Participation	\$	
	Local Contribution	\$	
	Other:	\$	
	<b>Total Estimated Project Costs</b>	<b>\$ 127,310,193</b>	

<b>Anticipated Commitments</b> <i>Attach proposed schedule for multi-year commitments</i>	<input type="checkbox"/> One-Time Commitment <input checked="" type="checkbox"/> Multi-Year Commitments
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## Supplement to Abridged SWIFT Application SAWS Vista Ridge Integration 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 Vista Ridge project will meet the needs of approximately 368,145 people based on SAWS' demand of 121.2 gallons per capita day (gpcd). The integration project will allow SAWS to treat and transport this water into the existing water distribution system.

### III. REGIONALIZATION

In addition to meeting the needs of SAWS' customers, the SAWS Vista Ridge Integration Project will help meet the human and economic needs of water systems outside the San Antonio area who may be served via connection to SAWS system downstream of the SAWS Vista Ridge Integration Project



infrastructure. SAWS has initiated dialog with several such entities regarding wholesale agreements for water to be delivered by the project.

#### **IV. PROJECT DESCRIPTION**

**Project Purpose.** The Project is necessary to build Integration infrastructure in order to treat and convey up to 50,000 AFY of water from the Vista Ridge Project to the SAWS water distribution system.

**Water Source and Permits.** No water permits are associated with the Integration project. The water supply will be pumped from the Simsboro and Carrizo aquifers via 18 wells in Burleson County via the Vista Ridge Project.

**Project Infrastructure.** The Integration project will include a new pump station at the water delivery point that will include ground storage tanks as well as treatment and disinfection facilities. SAWS will modify control and instrumentation equipment, add control valves and new yard piping at three existing pump station sites, and construct up to two additional ground storage tanks at existing pump station sites. In addition, SAWS will build approximately 5 miles of new water main and rehabilitate or replace as much as 2 miles of existing water main.

**Project Schedule.** The project is expected to start preliminary design in mid to late 2016. SAWS intends to use Design Build alternative delivery for the project. SAWS intends to have the design builder under contract within by mid-2017. The project completion would be timed with the Vista Ridge project to be operational by early 2020.

**Progress to Date.** SAWS has been performing a conceptual study of the project as a task under the Water Infrastructure Plan.

#### **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 design and construction costs are requested to be financed through multi-year SWIFT low interest loans.

A multi-year commitment is requested in the amounts indicated below.

### SCHEDULE FOR MULTI-YEAR COMMITMENT

SWIFT 2016 Round (November 2016)	\$25,062,039
SWIFT 2017 Round (November 2017)	\$100,248,154
SWIFT 2018 Round (November 2018)	\$2,000,000
<b>Total</b>	<b>\$127,310,193</b>