



Raw Water Project Summary

San Jacinto River Authority - Raw Water Division

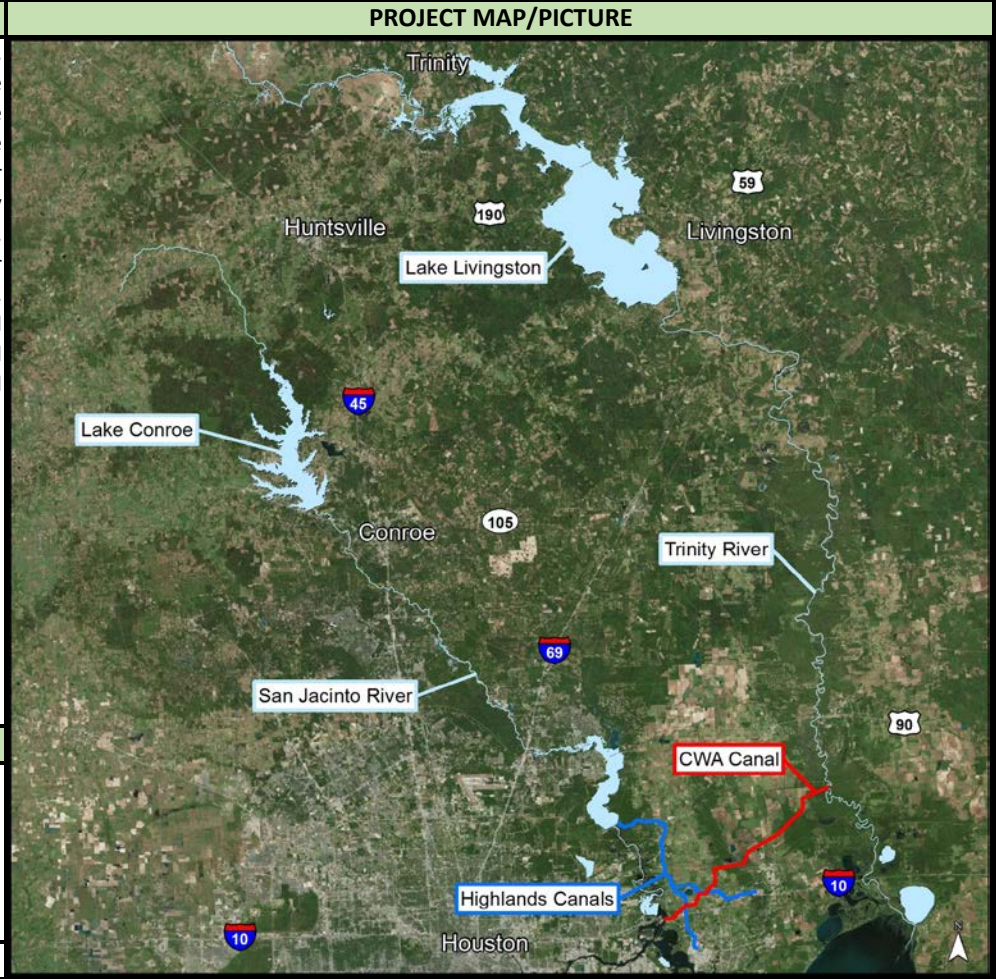
2018 - 2027 Projects

CIP PAGE NO.	PROJECT NO.	PROJECT NAME	PREVIOUS BUDGET	2018 ESTIMATE	2019 ESTIMATE	2020 ESTIMATE	2021 ESTIMATE	2022 ESTIMATE	2023 ESTIMATE	2024 ESTIMATE	2025 ESTIMATE	2026 ESTIMATE	2027 ESTIMATE	TOTAL
2	RWSMP	Raw Water Supply Master Plan	\$ 353,747	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 423,747
3	RWRSY	Raw Water Rate Study	\$ 20,000	\$ 126,000	\$ -	\$ -	\$ -	\$ 128,000	\$ -	\$ -	\$ -	\$ 155,000	\$ -	\$ 429,000
4	RTRIT	Trinity River Interbasin Transfer Feasibility Study	\$ -	\$ 470,000	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 720,000
5	RPAIS	Project A Implementation Studies	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
6	RPBIS	Project B Implementation Studies	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
7	RPCIS	Project C Implementation Studies	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
8	RPDIS	Project D Implementation Studies	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
TOTALS			\$ 373,747	\$ 666,000	\$ 550,000	\$ 300,000	\$ 300,000	\$ 428,000	\$ -	\$ -	\$ -	\$ 155,000	\$ -	2,772,747

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Raw Water Supply Master Plan	RWSMP	2016-2018	Raw Water Enterprise

PROJECT DESCRIPTION/JUSTIFICATION:

The Raw Water Supply Master Plan determined the 50-year demand projections for industrial, municipal, and irrigation water for Lake Conroe and the Highlands Service areas, and identified the following strategies or water-supply sources for meeting these demands: transfer of water from Lake Livingston to Lake Conroe, regional return flows above Lake Conroe and within the West Fork of the San Jacinto River for scalping and transmission to Lake Conroe, Catahoula Aquifer supplies, water swap with the City of Houston, Lake Creek scalping, development of a southern Montgomery County treatment facility, advanced municipal conservation, regional return flows above Lake Houston, purchase of water from Chambers-Liberty Counties Navigation District (CLCND) or the Trinity River Authority (TRA), transfer of additional water through the Coastal Water Authority (CWA) Main Canal, Trinity River Basin return flows, and purchase of groundwater for import. The strategies identified above will be prioritized with respect to the risks associated with each, including availability and delivery. Development and implementation will begin with the highest prioritized strategies based on the demand area and the associated cost of developing the selected supply source.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: Completed	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: Completed	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Professional	
Substantial Completion: December 2017	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Planning/Permitting/PER	\$ 423,747	\$ 353,747	\$ 70,000									
Engineering/Design	\$ -											
Construction	\$ -											
CPS, CM&I, and CMT	\$ -											
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
Total	\$ 423,747	\$ 353,747	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

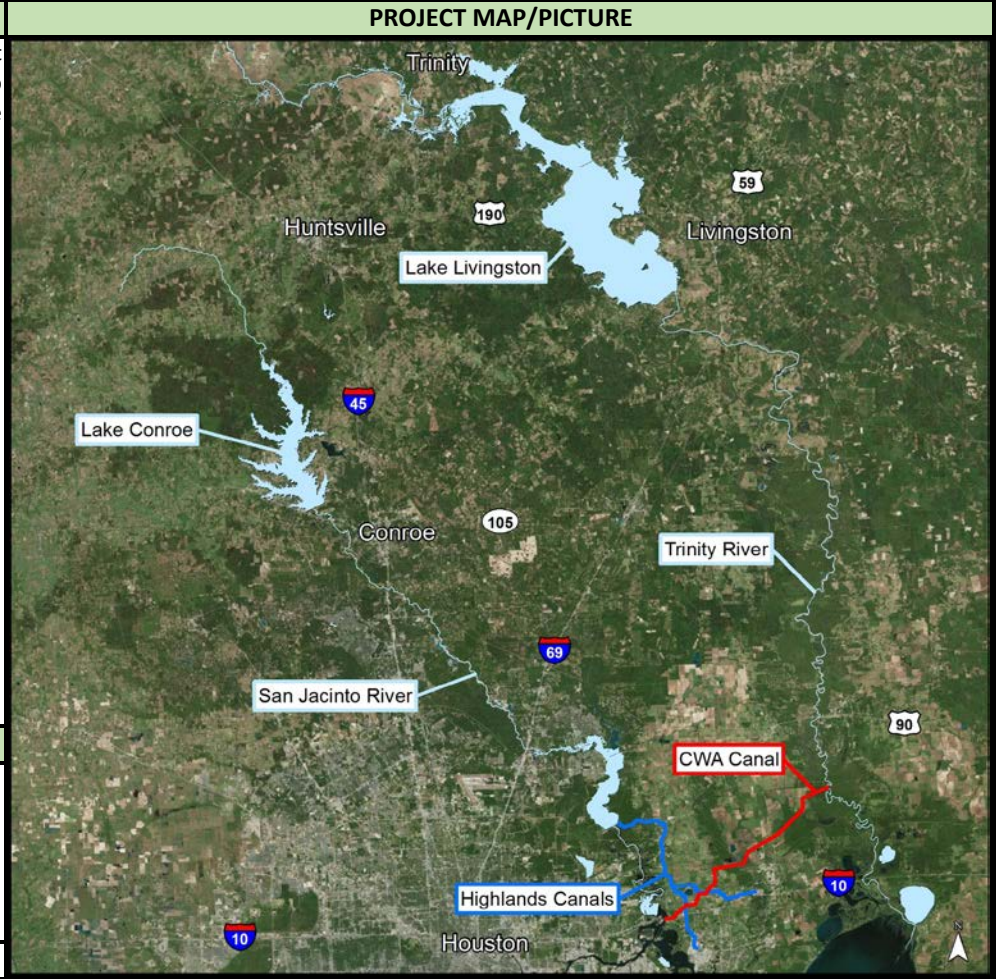
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Raw Water Rate Study	RWRSY	2018/2022/2026	Raw Water Enterprise

PROJECT DESCRIPTION/JUSTIFICATION:

In 2014 the SJRA completed an overall rate study in order to determine future rates for services that are provided in order to be able to fund operations and future rehabilitation/improvement costs to its infrastructure. This project will provide for the development of a revised rate study focused on the raw water services that the SJRA provides to its customers.

Project is required in order for SJRA to properly set future raw water rates to fund proposed projects.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: Completed	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: Completed/2022/2026	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Professional	
Substantial Completion: Feb. 2018/2022/2026	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

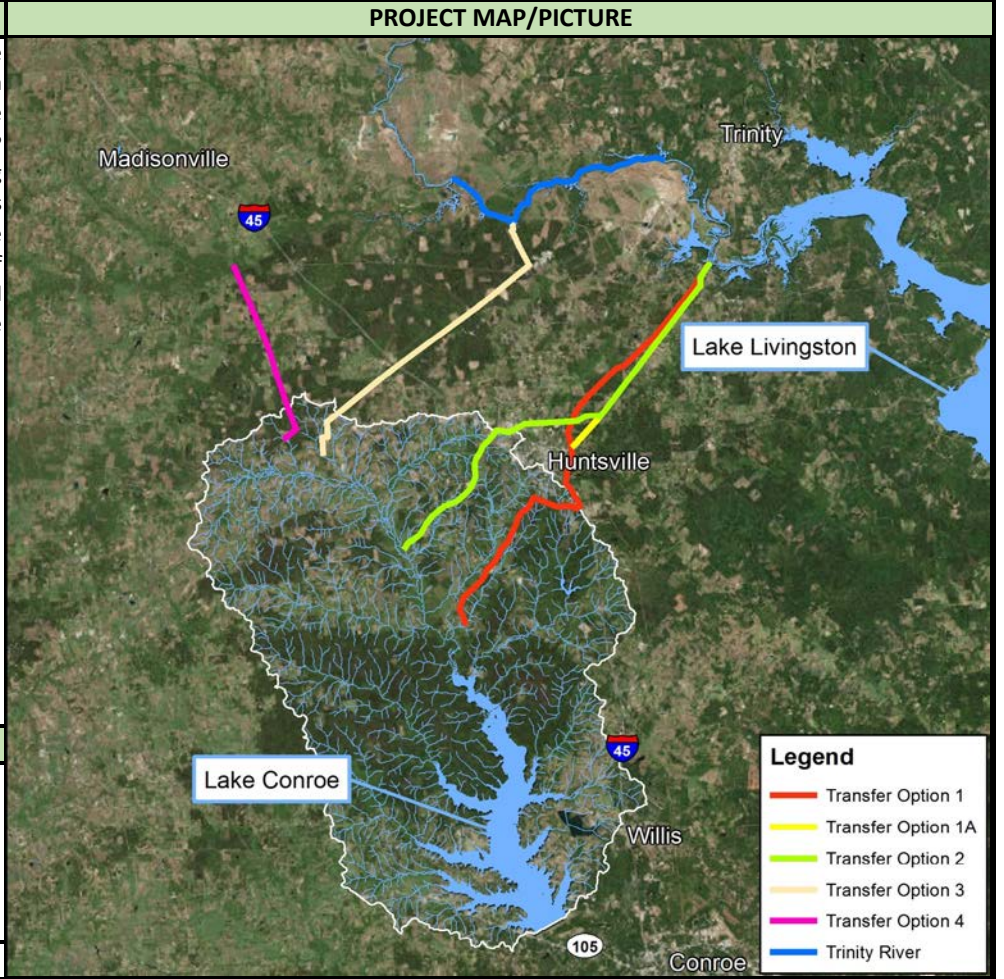
BUDGET*	TOTAL	PREVIOUS	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Planning/Permitting/PER	\$ 429,000	\$ 20,000	\$ 126,000				\$ 128,000				\$ 155,000	
Engineering/Design	\$ -											
Construction	\$ -											
CPS, CM&I, and CMT	\$ -											
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
Total	\$ 429,000	\$ 20,000	\$ 126,000	\$ -	\$ -	\$ -	\$ 128,000	\$ -	\$ -	\$ -	\$ 155,000	\$ -

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Trinity River Interbasin Transfer Feasibility Study	RTRIT	2018 - 2019	Raw Water Enterprise

PROJECT DESCRIPTION/JUSTIFICATION:

The SJRA has an option for raw water supply from the Trinity River Authority (TRA) to purchase 50,000 Acre-feet per year of raw water. The SJRA has until 2023 to enter into a Service Area Agreement with the TRA. This study will determine the feasibility of transferring water from the Trinity River basin to the San Jacinto River basin and establish if this project is beneficial for the GRP Participants. The scope of this study includes a preliminary route analysis, environmental scoping study for each route, and determining a recommended route for preliminary and final design. This study aims to provide a cost for the additional delivered raw water source, to assist with the determination of when this project is financially feasible. This study will be performed by SJRA staff with outside support from specialty consultants where needed, particularly environmental consulting. Ahead of needing contractor support, SJRA staff will seek to obtain water resource planning grants to fund this project.



PROJECT SCHEDULE		DELIVERY	FUNDING
Initiate Cons. Selection:	August 2017	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued:	October 2017	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs:	NA	<input type="checkbox"/> CSP	<input type="checkbox"/> R&R
Proposals/Bids Received:	NA	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board:	NA	Professional	
Substantial Completion:	August 2019	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

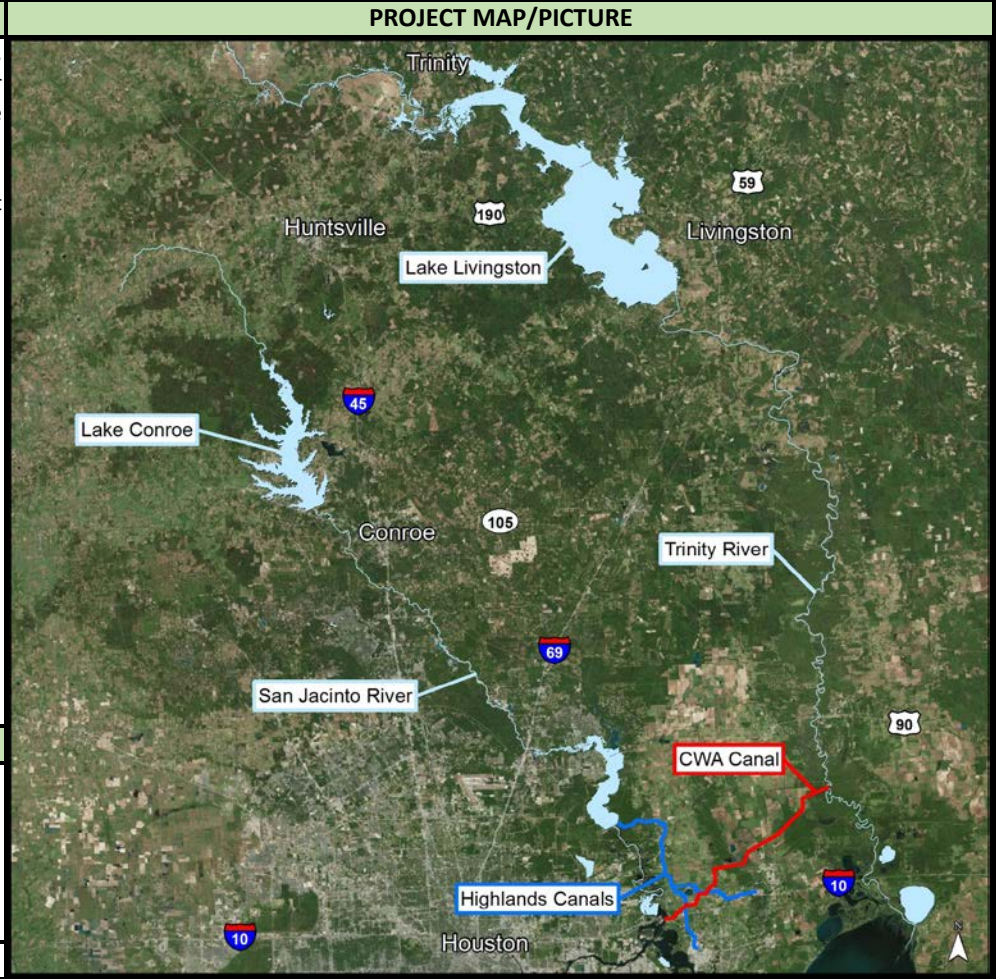
BUDGET*	TOTAL	PREVIOUS	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Planning/Permitting/PER	\$ 720,000		\$ 470,000	\$ 250,000								
Engineering/Design	\$ -											
Construction	\$ -											
CPS, CM&I, and CMT	\$ -											
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
Total	\$ 720,000	\$ -	\$ 470,000	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Project A Implementation Studies	RPAIS	2019-2020	Raw Water Enterprise

PROJECT DESCRIPTION/JUSTIFICATION:

The Raw Water Supply Master Plan determined the 50-year demand projections for industrial, municipal, and irrigation water for Lake Conroe and the Highlands Service areas, and identified four (4) main strategies or water-supply sources for meeting these demands. Project A will consist of the preliminary engineering and studies to implement one of these identified projects.

Project is necessary in order to plan for acquiring alternate and additional raw water sources to meet future demands.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: August 2018	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: September 2018	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Professional	
Substantial Completion: 2020	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Planning/Permitting/PER	\$ 300,000			\$ 150,000	\$ 150,000							
Engineering/Design	\$ -											
Construction	\$ -											
CPS, CM&I, and CMT	\$ -											
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
Total	\$ 300,000	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

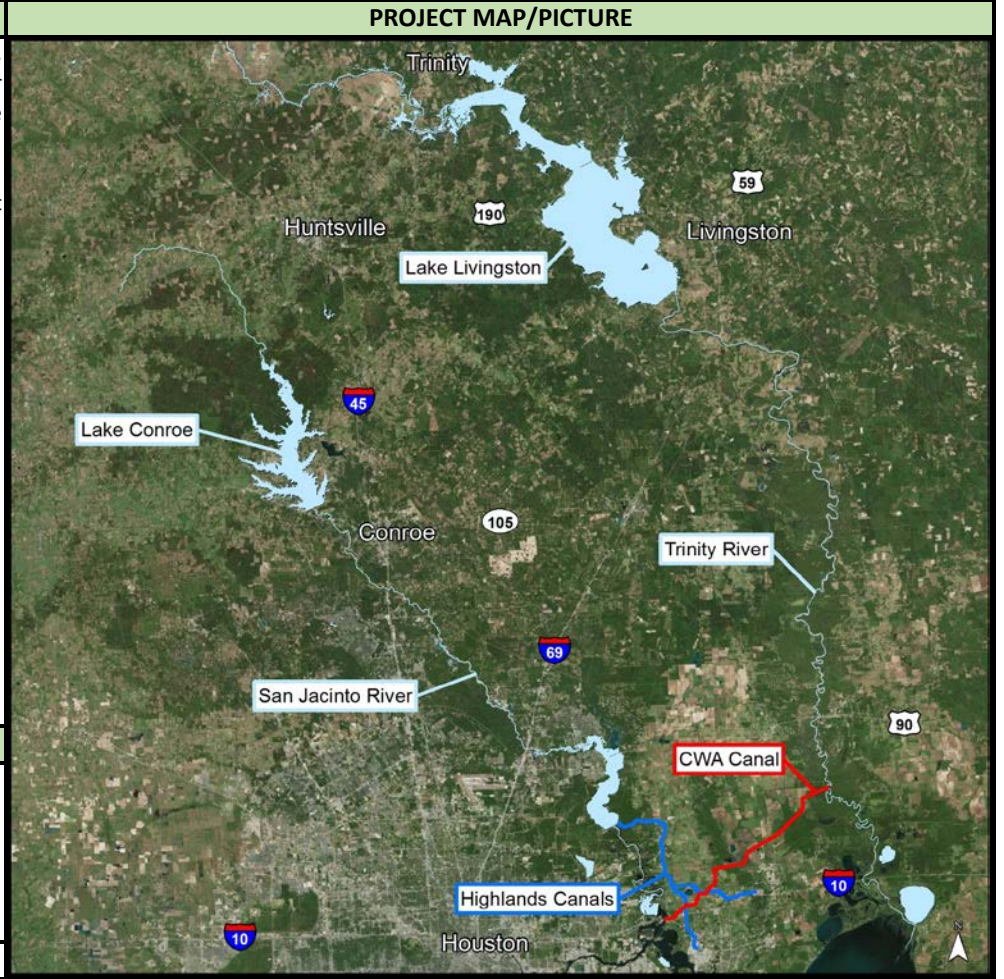
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Project B Implementation Studies	RPBIS	2019-2020	Raw Water Enterprise

PROJECT DESCRIPTION/JUSTIFICATION:

The Raw Water Supply Master Plan determined the 50-year demand projections for industrial, municipal, and irrigation water for Lake Conroe and the Highlands Service areas, and identified four (4) main strategies or water-supply sources for meeting these demands. Project B will consist of the preliminary engineering and studies to implement one of these identified projects.

Project is necessary in order to plan for acquiring alternate and additional raw water sources to meet future demands.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: August 2018	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: September 2018	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Professional	
Substantial Completion: 2020	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Planning/Permitting/PER	\$ 300,000			\$ 150,000	\$ 150,000							
Engineering/Design	\$ -											
Construction	\$ -											
CPS, CM&I, and CMT	\$ -											
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
Total	\$ 300,000	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

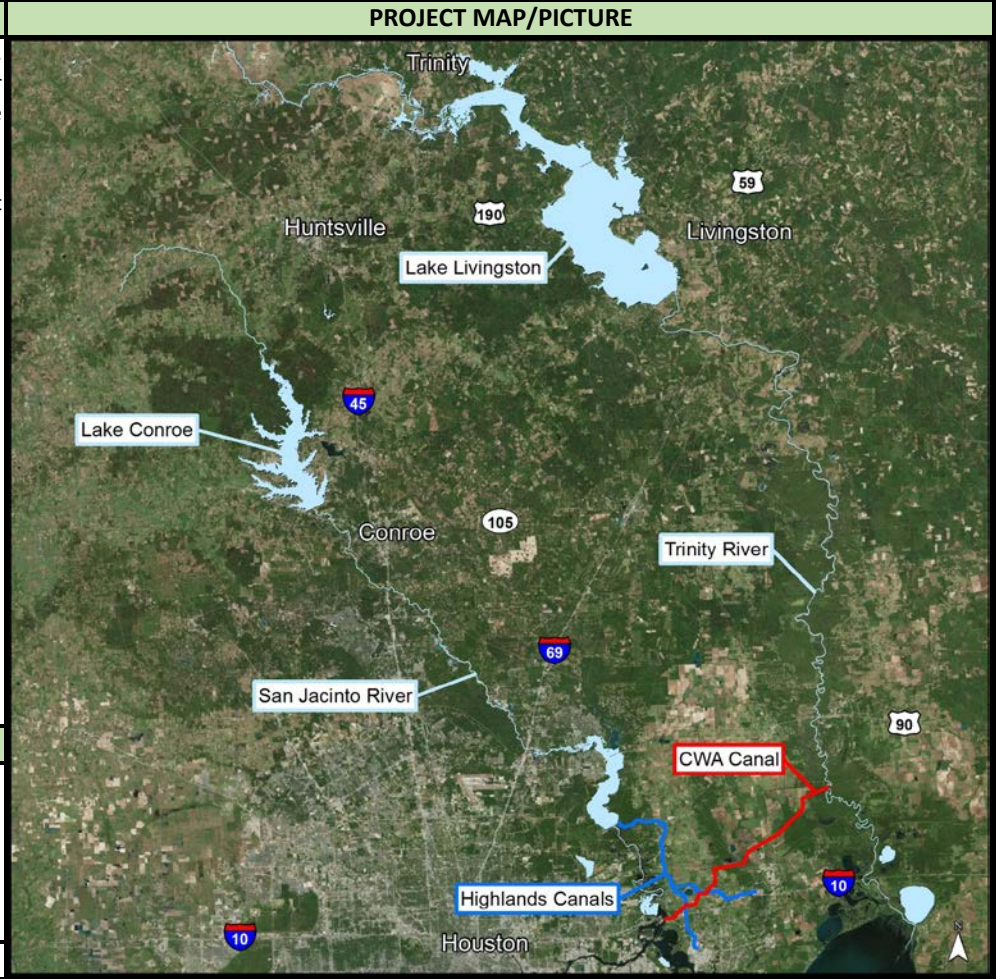
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Project C Implementation Studies	RPCIS	2021-2022	Raw Water Enterprise

PROJECT DESCRIPTION/JUSTIFICATION:

The Raw Water Supply Master Plan determined the 50-year demand projections for industrial, municipal, and irrigation water for Lake Conroe and the Highlands Service areas, and identified four (4) main strategies or water-supply sources for meeting these demands. Project C will consist of the preliminary engineering and studies to implement one of these identified projects.

Project is necessary in order to plan for acquiring alternate and additional raw water sources to meet future demands.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2020	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: 2020	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Professional	
Substantial Completion: 2022	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Planning/Permitting/PER	\$ 300,000					\$ 150,000	\$ 150,000					
Engineering/Design	\$ -											
Construction	\$ -											
CPS, CM&I, and CMT	\$ -											
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
Total	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -

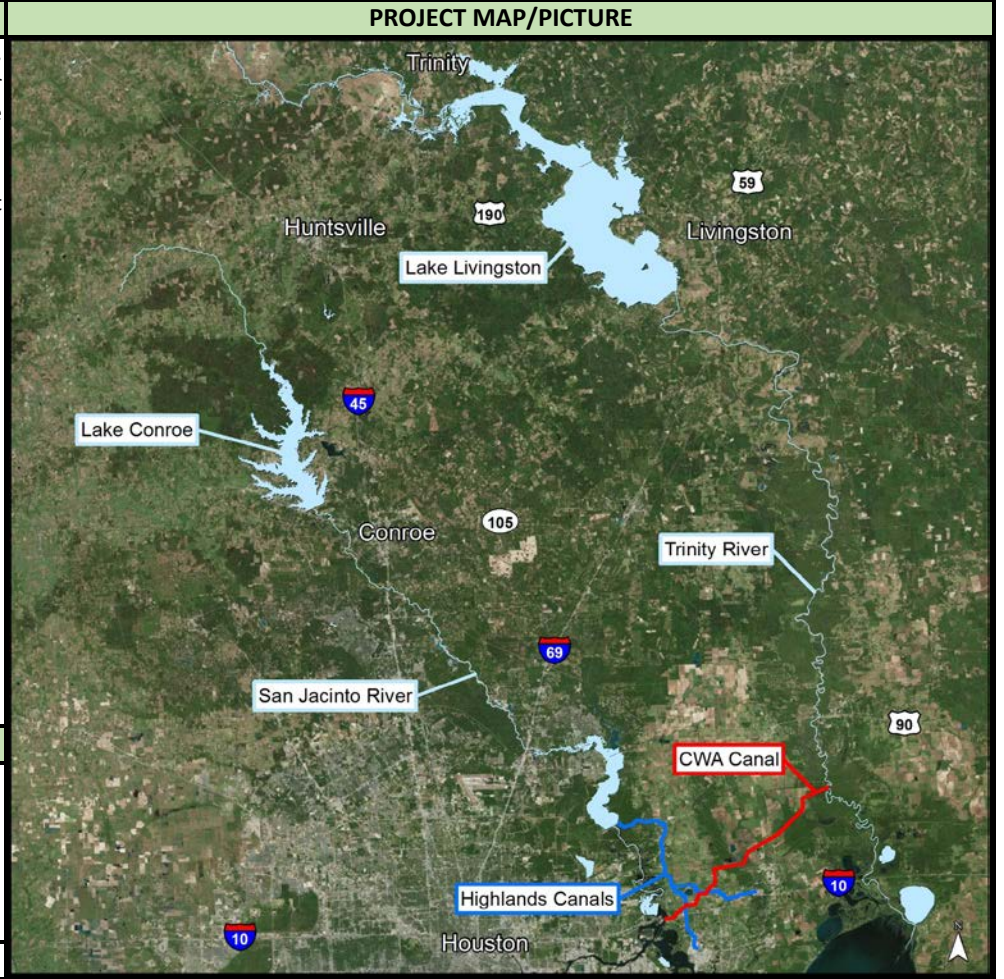
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION									
Project D Implementation Studies	RPDIS	2021-2022	Raw Water Enterprise									

PROJECT DESCRIPTION/JUSTIFICATION:

The Raw Water Supply Master Plan determined the 50-year demand projections for industrial, municipal, and irrigation water for Lake Conroe and the Highlands Service areas, and identified four (4) main strategies or water-supply sources for meeting these demands. Project D will consist of the preliminary engineering and studies to implement one of these identified projects.

Project is necessary in order to plan for acquiring alternate and additional raw water sources to meet future demands.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2020	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: 2020	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Professional	
Substantial Completion: 2022	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Planning/Permitting/PER	\$ 300,000					\$ 150,000	\$ 150,000					
Engineering/Design	\$ -											
Construction	\$ -											
CPS, CM&I, and CMT	\$ -											
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
Total	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -

*Budget includes contingency.