



PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Transmission Line Extensions/Flow Control Valve Replacements	GT1603	2021 - 2028	GRP

Individual surface water transmission line extensions and/or flow control valve replacements to serve a larger service area can occur throughout the CIP Planning period. However, under the guidelines established by the GRP Review Committee, a developer or Participant can request a service water extension to the new development or existing development, and pay for engineering up front. If the design leads to a construction project, the developer then pays 50% of the construction cost. CPS, CM&I, CMT and land acquisition estimates are all project specific.



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

BUDGET*	TOTAL	PREVIOUS	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Planning/Permitting/PER	\$ 1,185,000				\$ 339,000			\$ 392,000			\$ 454,000	
Engineering/Design	\$ 2,487,000					\$ 711,000			\$ 823,000			\$ 953,000
Construction	\$16,109,000						\$ 7,466,000			\$ 8,643,000		
CPS, CM&I, and CMT	\$ 1,611,000						\$ 747,000			\$ 864,000		
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
<b>Total</b>	<b>\$21,392,000</b>	\$ -	\$ -	\$ -	\$ 339,000	\$ 711,000	\$ 8,213,000	\$ 392,000	\$ 823,000	\$ 9,507,000	\$ 454,000	\$ 953,000

\* Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Alternative Water Supply Projects	GT1604	2022 - 2028	GRP

Individual alternative water supply projects, such as brackish groundwater (e.g. Catahoula) and reuse, can occur throughout the CIP planning period. There are no specifically identified projects at this time. However, the GRP Division will continually research additional water supplies that can be included in the GRP's portfolio. CPS, CM&I, CMT, and land acquisitions estimates are all specific project dependent. Allowances are provided for general budgeting purposes.

**PROJECT MAP/PICTURE**



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

BUDGET*	TOTAL	PREVIOUS	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Planning/Permitting/PER	\$ 55,000					\$ 16,000			\$ 18,000			\$ 21,000
Engineering/Design	\$ 71,000						\$ 33,000			\$ 38,000		
Construction	\$ 751,000							\$ 348,000			\$ 403,000	
CPS, CM&I, and CMT	\$ 75,000							\$ 35,000			\$ 40,000	
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
<b>Total</b>	<b>\$ 952,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 16,000</b>	<b>\$ 33,000</b>	<b>\$ 383,000</b>	<b>\$ 18,000</b>	<b>\$ 38,000</b>	<b>\$ 443,000</b>	<b>\$ 21,000</b>

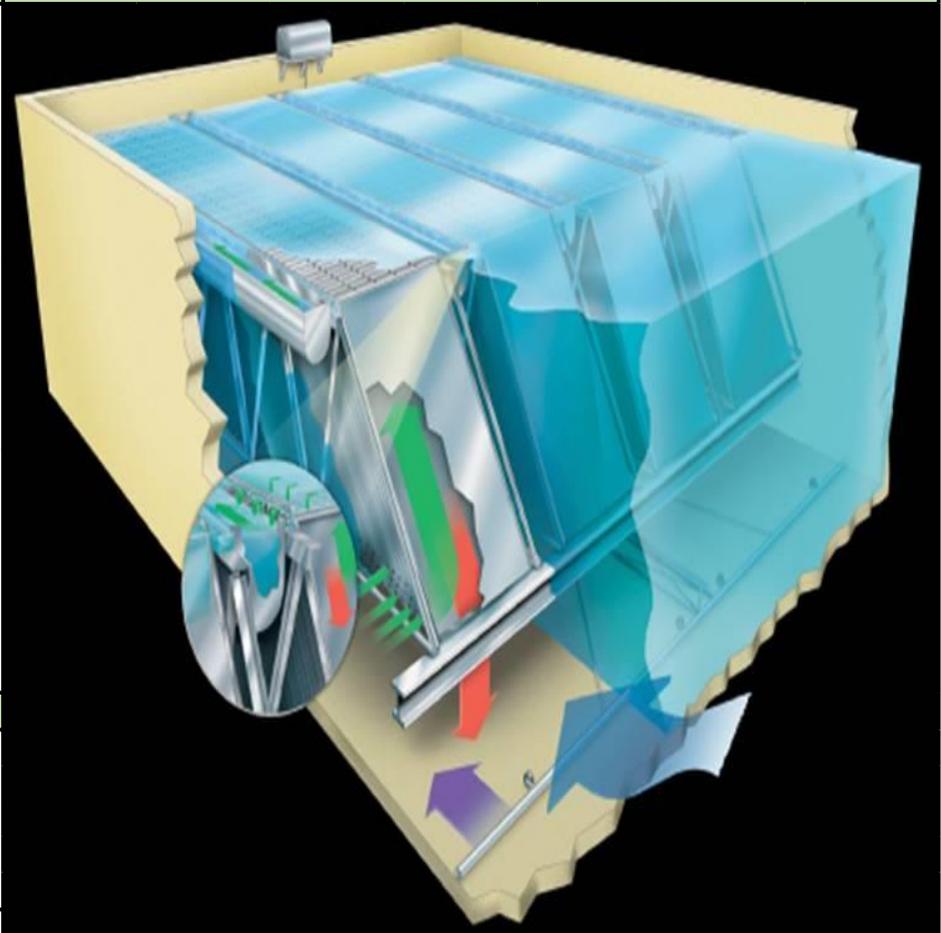
\* Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
GAC Fines	GW1802	2021-2022	GRP

The process of changing out Granular Activated Carbon (GAC) uses a water slurry to convey new material into the existing basin. The result of this process, coupled with settling the GAC into the new basin produces a large volume of very fine material. The GRP Division currently pays a contractor approximately \$1M per year to remove these fines from the system. During a project to optimize plan operational performance, it has been recommended to improve the solids waste stream within the plant. This would be achieved with the addition of plate settlers and holding tanks to allow operators to backwash fines onsite and treat them over time, without the need for a contractor to perform this task. In addition, the normal process of backwashing the GAC contractors during normal operations produces fines which could be sent to this new basin for treatment to reduce the solids loading in other parts of the plant. This project will therefore debottleneck a key process stream within the plant, this increasing solids processing efficiency and ultimately allowing for a higher TCEQ rating of the plant capacity. Once placed into operation, this project will provide an estimated annual savings of \$1.8 Million.

As a stop gap while the solids process improvements are being designed and constructed, SJRA staff intends to solicit proposals from new contracting vendors to reduce the cost of the fines removal. It is planned to utilize a new contractor during the four year duration between design and contraction of this project, which will save an estimated \$1 Million per year (assuming an annual production rate of 24 MGD).

**PROJECT MAP/PICTURE**



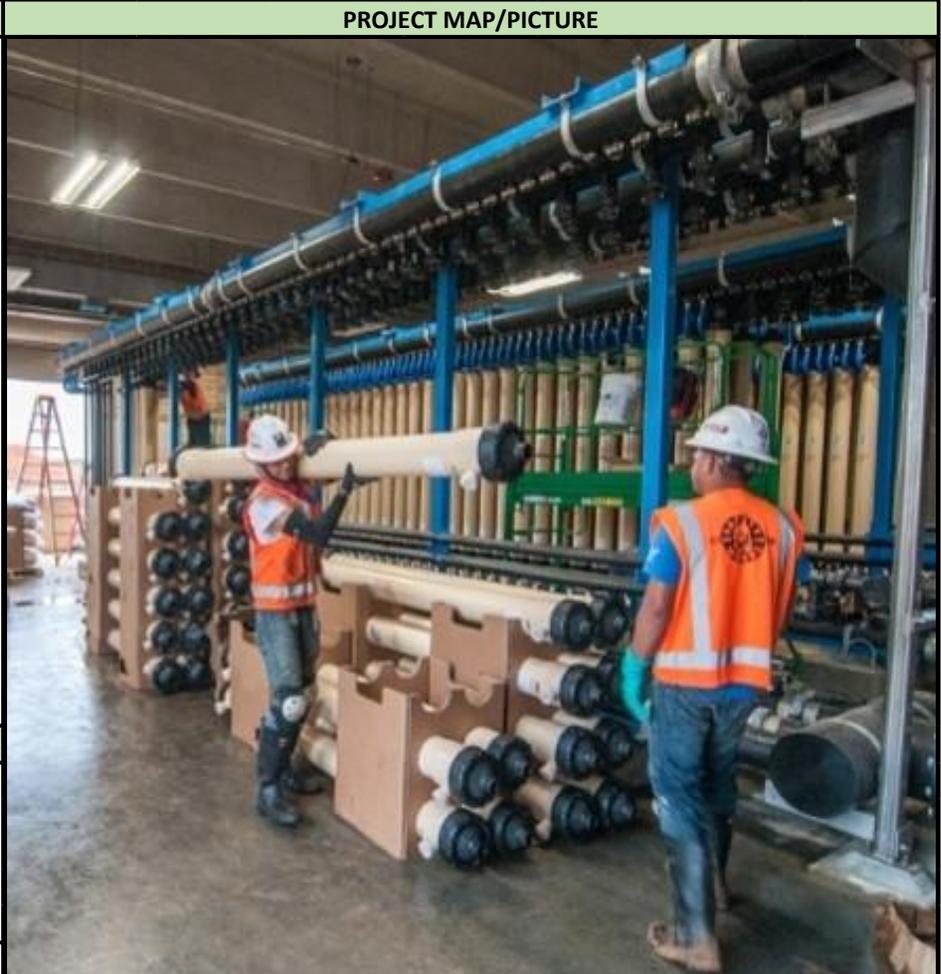
PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: July, 2017	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: August, 2017	<input checked="" type="checkbox"/> CMAR	<input checked="" type="checkbox"/> Bonds
Final Proposal Docs: July, 2022	<input checked="" type="checkbox"/> CSP	<input type="checkbox"/> R&R
Proposals/Bids Received: August, 2022	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: September, 2022		
Substantial Completion: August, 2023	<input checked="" type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Planning/Permitting/PER	\$ 75,000	\$ 75,000										
Engineering/Design	\$ 1,023,000				\$ 1,023,000							
Construction	\$10,745,000					\$10,745,000						
CPS, CM&I, and CMT	\$ 1,075,000					\$ 1,075,000						
Land Acquisition	\$ -											
Equipment Purchase	\$ -											
<b>Total</b>	<b>\$12,918,000</b>	<b>\$ 75,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,023,000</b>	<b>\$11,820,000</b>	<b>\$ -</b>					

\* Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Membrane Replacement	GW1901	2027	GRP

The GRP Surface Water Treatment Plant utilizes low pressure microfiltration membranes to remove particulates from water within the core of the treatment process. Pall Microza membranes were selected during the CMAR process and were put into service to treat and deliver water in September 2015. There are nine membrane racks, and each rack contains 152 modules (1,368 total modules). These membranes have a useful life of 10 years based on the average design flow of 24 MGD. It is possible this timeframe has been extended due to current lower demands on the plant and extra modules that were installed towards the end of construction. As such, SJRA staff is estimating that all modules will need to be replaced in 2027.



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

BUDGET*	TOTAL	PREVIOUS	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Planning/Permitting/PER	\$ -											
Engineering/Design	\$ -											
Construction	\$ -											
CPS, CM&I, and CMT	\$ -											
Land Acquisition	\$ -											
Equipment Purchase	\$15,513,000										\$15,513,000	
<b>Total</b>	<b>\$15,513,000</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$15,513,000	\$ -

\* Budget includes contingency.