Pursuant to Governor Newsom's Executive Order N-29-20, members of the Finance Standing Committee or staff will participate in this meeting via a teleconference.



CAMBRIA COMMUNITY SERVICES DISTRICT

I, Cindy Steidel, Chairman of the Cambria Community Services District Finance Committee, hereby call a Special Meeting of the Finance Committee pursuant to California Government Code Section 54956. The Special Meeting will be held: **Wednesday, May 13, 2020, 1:30 PM.** The purpose of the Special Meeting is to discuss or transact the following business:

AGENDA

SPECIAL MEETING OF THE CAMBRIA COMMUNITY SERVICES DISTRICT FINANCE COMMITTEE

Wednesday, May 13, 2020, 1:30 PM

Copies of the staff reports or other documentation relating to each item of business referred to on the agenda are on file in the Office of the District Clerk, available for public inspection during District business hours. The agenda and agenda packets are also available on the CCSD website at www.cambriacsd.org. The District Office hours are Monday - Thursday, and every other Friday from 9:00 a.m. through 4:00 p.m. Please call 805-927-6223 if you need any assistance. If requested, the agenda and supporting documents shall be made available in alternative formats to persons with a disability. The District Clerk will answer any questions regarding the agenda.

Please click the link below to join the webinar:

https://zoom.us/j/95866508840?pwd=WVINU0FKcXdRejhlSm9qV1k2TFVmZz09 Password: 232992

Or iPhone one-tap:

US: +16699006833..95866508840# or +12532158782..95866508840#

Or Telephone:

Dial(for higher quality, dial a number based on your current location): US: +1 669 900 6833 or +1 253 215 8782 or +1 346 248 7799 or +1 312 626 6799 or +1

929 205 6099 or +1 301 715 8592

Webinar ID: 958 6650 8840

International numbers available: https://zoom.us/u/aJPJU6S7t

- 1. OPENING
 - A. CALL TO ORDER
 - B. ESTABLISH A QUORUM

C. CHAIRMAN'S REPORT

- 2. PUBLIC COMMENT
- 3. REGULAR BUSINESS
 - A. Review and Discussion of Recommendations and Considerations to the Board Regarding Water and Wastewater Rate Increases that are Prescribed in Proposition 218 Actions Approved by the Board in May 2019
- 4. FUTURE AGENDA ITEMS
- 5. ADJOURN

CAMBRIA COMMUNITY SERVICES DISTRICT

TO: Finance Standing Committee AGENDA NO. **3.A.**

FROM: John F. Weigold IV, General Manager

Pamela Duffield, Finance Manager

Meeting Date: May 13, 2020 Subject: Review and Discussion of

Recommendations and Considerations to the Board Regarding Water and Wastewater Rate Increases that are Prescribed in Proposition 218 Actions Approved by the Board in May 2019

RECOMMENDATIONS: Staff recommends the Finance Committee review and discuss recommendations and considerations to the board regarding Water and Wastewater Rate increases, as prescribed by the Proposition 218 Actions which were approved by the CCSD board of Directors in May 2019.

The Bartles and Wells rate study was prepared for the District in 2018 at a cost of approximately \$25,000 to assist in funding CCSD operations and deferred maintenance to the District's Water and Wastewater plants. The recommended rate increases from this study execute over a period of three years, to set the District on a path toward financial stability. The action before the Board on May 21, 2020 will be to review and approve the third of the three annual rate increases. Failure to execute the proposed rate increases will lead to increased risk of plant failures and the inability to meet operational, fiscal, and capital improvement plan needs for the future.

Staff recommends that the Finance Committee review and discuss the following and make recommendations and considerations to the Board of Directors:

- Approve water (including the sustainable water facility fund), and wastewater rate increases for July 1, 2020 as prescribed in Exhibit "A" of Resolution 19-2019, which was approved by the Board of Directors on May 23, 2019.
- 2. Approve the following findings of consistency with Resolution 27-2018, adopted on October 4, 2018 and Resolution 19-2019, adopted on May 23, 2019:
 - a. The need for the rate increases continues and includes ensuring that there are sufficient revenues from service charges to fund the cost of providing service, including the costs of operating and maintaining CCSD's water, SWF and sewer systems to support safe and reliable service.
 - b. That the rate increases also continue to be necessary to:
 - i. support funding for capital improvements primarily needed to repair, replace and/or upgrade aging infrastructure
 - ii. to help keep revenues in line with the future cost of inflation
 - c. That the rates to be imposed cover no more than the cost that the District incurs as detailed in the Water, SWF and Sewer Rate analysis prepared by Bartle Wells Association, which was reviewed and considered by the Board of Directors when the Board approved Resolution 27-2018 and Resolution 19-2019 adopting water,

sustainable water facility, and sewer rates, including rates prescribed to be effective on July 1, 2020.

- 3. Historical actions taken to strengthen financial oversight:
 - a. To ensure that the revenues generated from the rates are used for intended purposes, the District has implemented measures to promote accountability over the rates, including the following:
 - To ensure that the rate increases are spent consistent with the details included in the Bartles Wells analysis, the District Board of Directors established formal goals including an annual Proposition 218 rate review process.
 - ii. To ensure that District goals are carried out, the Board of Directors also assigned specific goals to its Standing Committees, including the Standing Finance Committee.
 - iii. To ensure that the goal to establish a Proposition 218 rate review process is carried out, the Standing Finance Committee established an ad-hoc committee in 2019 to work with District staff in establishing a financial model to monitor actual revenues and expenditures with comparisons to approved budgets and the Bartle Wells analysis and quantification of variances.
 - iv. That the Standing Finance Committee and the Board of Directors have reviewed the financial model, and to promote accountability over the water, SWF, and sewer rates, the financial model is now utilized for fiscal year 2019/2020 quarterly reporting budget analysis and will be used for future year budgets and comparisons to the Bartle Wells analysis.
 - b. To ensure that the Districts operations and maintenance, and implementation of capital projects, major maintenance projects and other programs and activities are cost effective, the District Board of Directors also established goals for the Standing Resource and Infrastructure Committee, which has reviewed District programs and projects, priorities, cost estimates and toured District facilities.
 - c. To ensure coordination between the District's standing committees, an annual joint meeting will be considered by the committee chairs prior to the meeting that the Board of Directors will consider approving the District's annual budget.
 - d. That the District's annual budget must include provisions for reserves, and the use of reserves, based on the Bartles Wells analysis that was considered by the Board when Resolution 27-2018 and 19-2019 were approved and to account for the variances between actual revenues collected and actual expenditures.
 - e. That the need for the rate increases continue to exist, that the District is implementing goals and measures to help ensure that revenues generated are utilized for the purposes which they are intended, and that it is in the best interests of the community of Cambria to implement the rate increases prescribed in Exhibit "A" of Resolution 27-2018 and Resolution 19-2019, effective July 1, 2020.

FISCAL IMPACT:

The Bartle Wells analysis indicates that increases prescribed for July 1, 2020 will increase water rates 5%, SWF rates 12% and sewer rates 12% (refer to Attachment 1 – Rates).

The following is the fiscal impact statement included in the staff report when the Board of Directors adopted Resolutions 27-2018 and 19-2019:

"The proposed water, SWF and sewer rate increases are necessary to provide adequate revenues to a) fund the annual costs of operating and maintaining CCSD's water, SWF, and sewer systems, and b) support increased funding for capital improvements primarily needed to repair, replace, and/or upgrade aging infrastructure. Specifically, the water rate increases are designed to phase in capital improvement funding to an annual level of \$700,000 over 3 years; the sewer rate increases are designed to phase in capital funding to an annual level of \$800,000 over 3 years; and the SWF rates are designed to help restore balanced budgets assuming the facility is in operation for 2 months of each year on averages."

DISCUSSION:

Since the adoption of Resolution 27-2018 on October 4, 2018 and Resolution 19-2019 on May 23, 2019, approximately 18 months have elapsed. The recommended findings were developed recognizing the following:

- A. The Bartles Wells analysis included 10-year financial projections.
- B. Capital improvement programs are implemented over multiple years.
- C. The revenue increases continue to be needed.
- D. Continuing to establish budgetary reserves to account for revenues that are collected but which are unspent at the end of each fiscal year.

The Finance Committee meeting on April 28, 2020 was continued to today, so staff could bring back additional information for the committee's discussion and consideration. The proposed rate increases, effective July 1, 2020 are estimated to increase revenues by the following:

Water - \$188,000 SWF - \$149,000 Sewer - \$353,000

These rate increases are required to continue funding for:

- 1. Over \$17 million in capital improvement projects of an aging infrastructure (refer to Attachment 2 CIP list)
- 2. Approximately \$742,000 for repayment of loaned funds to the General Fund
- 3. Approximately \$162,000 for repayment of loaned funds between the Water Fund and SWF Fund, as per the FY 2019/20 budget and Prop 218 analysis
- 4. Approximately \$65,000 to create reserves for replacement funds and/or future projects.

Options and Associated Impacts of Delaying the July 1, 2020 Rate Increases:

	Option 1	Option 2	Option 3
	Jul 1, 2020	Sep 1, 2020	Nov 1, 2020
	Fiscal Year	Delay 1 Bill	Delay 2 Bill
Fund	Amount	Cycle	Cycles
Water Fund	188,000	156,667	125,333
SWF Fund	149,000	124,167	99,333
Sewer Fund	353,000	294,167	235,333
Total	690,000	575,000	460,000
Impact		(115,000)	(230,000)

Option 1 – Proceed with the Rate Increase July 1, 2020

There is no estimated impact associated with Option 1. Rate increases would follow the prescribed plan as outlined in the Bartle Wells rate analysis, previously approved by the Board with Resolution 27-2018 and Resolution 19-2019.

Option 2 – Delay the Rate Increase to September 1, 2020 (1 Billing Cycle)

This option would reduce overall revenues in FY 2020/21 by \$115,000 (Water \$31,333, SWF \$24,833, and Sewer \$58,833). Capital improvement projects would be targeted for budget reduction and/or delays. These projects could include Water Meter Replacement, Pedestrian Bridge, and SCADA Improvements in the Water Fund, repayment of loaned funds to the Water Fund and 2-month operational reserves in the SWF Fund, and PGE-SST design expense and future debt service associated with this project in the Sewer Fund.

Option 3 – Delay the Rate Increase to November 1, 2020 (2 Billing Cycles)

This option would reduce overall revenues in FY 2020/21 by \$230,000 (Water \$62,666, SWF \$49,666, and Sewer \$117,666). As detailed in Option 2 above, funding for capital improvement projects would have further budget reductions and/or delays, interfund repayments and set aside of any reserves would be unlikely.

Staff recommends the Finance Committee review the options and make recommendation to the Board. The Board will be reviewing the rate increase item on May 21, 2020, which is necessary to keep on schedule with the FY 2020/21 budget cycle.

Attachments: 1) Exhibit A to Resolution 19-2019 – Water, SWF, and Sewer Rates 2) CIP List

The following are separately posted on the District website, for the May 13, 2020 meeting, at:

https://www.cambriacsd.org/finance-standing-committee

- July 12, 2018 material for Board of Directors meeting; agenda item #3A regarding the Proposition 218 rate increases.
- October 4, 2018 material for Board of Directors meeting; agenda item #3A regarding the Proposition 218 rate increases, including Resolution 27-2018.
- May 23, 2019 material for Board of Directors meeting; agenda item #13C regarding the Proposition 218 rate increases, including Resolution 19-2019.

EXHIBIT A TO RESOLUTION 19-2019

(ALSO EXHIBIT A TO RESOLUTION 27-2018)

WATER RATES

	Water Rates Effective On or After					
	November 1	July 1	July 1			
	2018	2019	2020			
FIXED WATER SERVICE CHARGES						
Residential						
Monthly Charge	\$15.86	\$17.45	\$18.32			
Bi-Monthly Charge	31.72	34.90	36.64			
Commercial						
Monthly Charge (based on meter size)						
5/8" or 3/4"	\$15.86	\$17.45	\$18.32			
1"	39.65	43.63	45.80			
1-1/2"	79.30	87.25	91.60			
2" & Larger	158.60	174.50	183.20			
Bi-Monthly Charge (based on meter size)						
5/8" or 3/4"	\$31.72	\$34.90	\$36.64			
1"	79.30	87.26	91.60			
1-1/2"	158.60	174.50	183.20			
2" & Larger	317.20	349.00	366.40			
WATER QUANTITY CHARGES						
Billed based on metered water use (\$/ccf)						
Residential						
<u>Tier</u> <u>Bi-Monthly</u> <u>Monthly</u>						
Tier 1 First 4 ccf First 2 ccf	\$8.08	\$8.89	\$9.33			
Tier 2 4.01 - 16 ccf 2.01 - 8 ccf	10.57	11.63	12.21			
Tier 3 > 16 ccf > 8 ccf	11.79	12.97	13.61			
Commercial						
Rate for All Water Use	\$10.57	\$11.63	\$12.21			

Note: 1 ccf = 100 cubic feet, or approximately 748 gallons

SUSTAINABLE WATER FACILITY RATES

			SWF Rates Effective On or After					
			November 1	July 1	July 1			
			2018	2019	2020			
FIXED SEI	RVICE CHARGES							
Residentia	al							
Monthly	Charge		\$7.93	\$9.04	\$10.13			
Bi-Month	nly Charge		15.86	18.08	20.26			
Commerci	ial							
Monthly	Charge (based on	meter size)						
5/8" or 3	/4"		\$7.93	\$9.04	\$10.13			
1"			19.83	22.60	25.33			
1-1/2"	·		39.65	45.20	50.65			
2" & Larg	ger		79.30	90.40	101.30			
<u>Bi-Mont</u>	hly Charge (based	on meter size)						
5/8" or 3	2/4"		\$15.86	\$18.08	\$20.26			
1"			39.66	45.20	50.66			
1-1/2"			79.30	90.40	101.30			
2" & Larger		158.60	180.80	202.60				
QUANTIT	Y CHARGES							
Billed base	ed on metered wat	er use (\$/ccf)						
SWF Quar	ntity Charges							
<u>Tier</u>	Bi-Monthly	<u>Monthly</u>						
Tier 1	First 4 ccf	First 2 ccf	\$1.75	\$1.99	\$2.23			
Tier 2	4.01 - 16 ccf	2.01 - 8 ccf	3.50	3.99	4.47			
Tier 3	> 16 ccf	> 8 ccf	5.25	5.98	6.70			

Note: 1 ccf = 100 cubic feet, or approximately 748 gallons.

SEWER RATES

	Sewer Rates Effective On or After				
	November 1	July 1	July 1		
	2018	2019	2020		
FIXED SEWER SERVICE CHARGES					
All Accounts					
Monthly Charge	\$35.74	\$41.10	\$46.03		
Bi-Monthly Charge	71.48	82.20	92.06		
SEWER QUANTITY CHARGES					
Billed based on metered water use (\$/ccf)					
Residential	\$4.13	\$4.75	\$5.32		
Commercial					
<u>Wastewater Class</u>					
Class 1: Low Strength	\$3.62	\$4.16	\$4.66		
Class 2: Medium Strength	4.13	4.75	5.32		
Class 3: Mod/High Strength	6.36	7.31	8.19		

Class 1 includes lower strength accounts including professional offices, retail stores, laundromats, & schools.

Class 2 includes all other commercial accounts (with standard/domestic strength wastewater) that are not classified as either Class 1 or Class 3.

Class 3 includes accounts with moderate to high wastewater strength including restaurants, hotels with restaurants, bakeries, mortuaries, markets with meat/seafood/food prep/garbage grinders, and mixed-use accounts with an estimated 30% or more sewer discharge from higher strength wastewater flow.

Note: 1 ccf = 100 cubic feet, or approximately 748 gallons.

CCSD reserves the right to assign commercial customers to the class that best matches their wastewater strength.

Water Meter Pepip Sciences & Upgrades 1 \$1,050,000 \$1,055 \$1,055 \$1,050 \$1,055 \$1,050	Pressure Zone 2 to Zone 7 transmission main replacement @ SR Creek pedestrian bridge Water Meter Replacements & Upgrades Annual GIS updating & upgrades Piney Way erosion control inspection report and follow-up protection efforts for existing pipeline Subzone metering of distribution system Stuart Street Tank Replacement (125K gallon welded steel tank with new foundation)			Pro	ject Cost	1	10 yr Cost
Water Mater Replacements 1 5 1,050,000 1,000 5 150,000 5	2 Water Meter Replacements & Upgrades 3 Annual GIS updating & upgrades 4 Piney Way erosion control inspection report and follow-up protection efforts for existing pipeline 5 Subzone metering of distribution system 6 Stuart Street Tank Replacement (125K gallon welded steel tank with new foundation)						•
Annual GS updating & upgrades	Annual GIS updating & upgrades Piney Way erosion control inspection report and follow-up protection efforts for existing pipeline Subzone metering of distribution system Stuart Street Tank Replacement (125K gallon welded steel tank with new foundation)		1	\$	120,000	\$	120,00
Pinery Way errosion control inspection regord and follow-up protection efforts for existing pipeline	4 Piney Way erosion control inspection report and follow-up protection efforts for existing pipeline 5 Subzone metering of distribution system 6 Stuart Street Tank Replacement (125K gallon welded steel tank with new foundation)		1	\$ 1		\$	1,050,00
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Subtroen metering of distribution system 2 \$ 1,50,000 \$ 15.5	6 Stuart Street Tank Replacement (125K gallon welded steel tank with new foundation)					_	10,00
Stuart Street Tank Replacement (125K gallon welded steel tank with new foundation)	6 Stuart Street Tank Replacement (125K gallon welded steel tank with new foundation)	Priority :				_	1,280,00
Replacement of problematic service lines within Leiment \$ 0,000 \$ 130,00			1	<u> </u>		_	150,00
Replacement of problematic service lines within Leimert 3 \$ \$1,000 \$ \$1.35	7 Dealers and forely making a single bit and the si			<u> </u>		_	458,00
Water Master Plan Amendment (revised fire flow modeling/tank sizing check)		Priority A	1			_	608,00
Annual Water pipellines, pumps, and PRV repairs and replacements 3 \$ 5,000 \$ \$			1	_		_	130,00 35,00
Valve Replacements			1		-	·	
Inspection & spot repair to water transmission main under S. Parks wetlands area; or lining of transmission main plus study. & 285,000 \$						ç	20,0
Inspection & spot repair to water transmission main under S. Parks wetlands area; or lining of transmission main plus study & 4	10 Valve neplacements	Priority 3				¢	685,0
	Inspection & spot repair to water transmission main under S. Darks wetlands area: or lining of transmission main under		Jubiolai	,	233,000	7	003,0
2 Pinc Knolls - Na Court zone 1 pipeline expansion		ius study &	4	\$	80 000	Ġ	80,00
Tank & Booster Pump Station Projects SCADA System - Long-term Water Portion 1 \$ 25,000 \$ 255			1			_	165,0
Tank & Booster Pump Station Projects	12 ji ilic kilolis i wa court zone 1 pipeline expansion	Priority 4				_	245,0
SCADA System - Long-term Water Portion 1	Tank & Booster Pump Station Projects			7	5,500	Ť	5,5
Electrical transfer switch and conduit to well SS-3 2 5 5,000 5 25 5 5 5 5 5 5 5			1	\$	250,000	\$	250,0
San Simeon well field generator replacement 2 5 100,000 5 125,000 5 12	, ,		1	_		_	25,0
Rodeo Grounds Pump Station Replacement (aka Zone 2 Booster pump station) 3 5,1016,000 5,						_	100,0
Rodee Grounds Pump Station Replacement (aka Zone 2 Booster pump station) 3 5 1,016,000 5 1,016		Priority 2	2 Subtotal	\$	125,000	\$	125,0
Database for water conservation program/tracking with parcel links & APN file conversion 1	4 Rodeo Grounds Pump Station Replacement (aka Zone 2 Booster pump station)					_	1,016,0
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Vehicle Replacement Program Reserves (Accumulate Funds) 1 5 25,000 5 256	1 Database for water conservation program/tracking with parcel links & APN file conversion		1	\$	10,000	\$	10,0
Contingency/reserves (Accumulate Funds) 1 5 5,000 5 15 56 56 56 56 56 56	Vehicles & Trailer Mounted-Equipment						
Contingency/reserves (Accumulate Funds)	1 Vehicle Replacement Program Reserves (Accumulate Funds)		1	\$	25,000	\$	250,0
Friedry 1 Total \$ 4,515 Priority 2 Total \$ 735 Priority 2 Total \$ 735 Priority 2 Total \$ 735 Priority 3 Total \$ 735 Priority 4 Total \$ 745 Priority 4 Total \$ 745 Priority 4 Total \$ 745 Priority 5 Total \$ 745 Priority 4 Total \$ 745 Priority 5 Total \$ 745 Priority 4 Total \$ 745 Priority 5 Total \$ 745 Priority 6 Total \$ 745 Priority 7 Total \$ 745 Priority 1 Total \$ 745 Priority 2 Subtotal \$ 745 Priority 3 Subtotal \$ 745 Priority 1 Total \$ 745 Priority 2 Subtotal \$ 745 Priority 3 Subtotal							
Priority 1 Total 5 1,346	1 Contingency/reserves (Accumulate Funds)		1	\$	15,000	_	150,0
Priority 2 Total 3				Gı	rand Total		4,619,0
Priority 3 Total \$1,700 Priority 3 Total \$2,500				Prior	ity 1 Total	\$	1,940,0
WF CIP - Capital Improvement Program (Revised 4/30/2019 - For Discussion Only) Ranking Project Cost 10 yr Ci						_	733,0
WF CIP - Capital Improvement Program (Revised 4/30/2019 - For Discussion Only) Permitting					•		1,701,0
Permitting EliR consulting (follow up agency discussions to support the SWF's Regular CDP)				Prior	ity 4 Total	\$	245,00
Permitting Fermitting Fer	SWF CIP - Capital Improvement Program (Revised 4/30/2019 - For Discussion Only)						
EIR consulting (follow up agency discussions to support the SWF's Regular CDP) Section 7 ESA consulting, annual AMP report, & AMP update Priority 1 Subtotal Interim, short-term SWF Modifications Modifications to facilitate off-hauling RO waste (secondary containment, grading, rock, purchase tanks) Associated and the secondary Containment, Grading, Rock a) Secondary Containment, Grading, Rock b) Tank purchase Priority 1 Subtotal Advanced Water Treatment Plant Miscelaneous instrumentation / monitoring upgrades Filters / membrane replacements (or build reserves for future) Long-Term Improvement Modifications Consutting assistance for coordination with Army Corps on WRDA grant (meetings, redefine work plan, & update scope of work) work) Long-Term Improvement Modifications Consulting assistance for coordination with Army Corps on WRDA grant (meetings, redefine work plan, & update scope of work) work) AWTP pull-barn style covers for outdoor equipment & control panels (1,2) Friority 2 Subtotal AWTP pull-barn style covers for outdoor equipment & control panels (1,2) Sems, Hach WIMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming Assistance) Sems, Hach WIMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming Assistance) Sems, Hach WIMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming Assistance) Solar Array System (1,2) Priority 3 Subtotal Final \$ 10,000 \$ 100 \$ 200 \$			Ranking	Pro	ject Cost	1	10 yr Cost
Section 7 ESA consulting, annual AMP report, & AMP update Priority 1 Subtotal \$ 100,000 \$ 100 Interim, short-term SWF Modifications							
Interim, short-term SWF Modifications Interim, short-term SWF Modifications Interim, short-term SWF Modifications Interim, short-term SWF Modifications Indifications to facilitate off-hauling RO waste (secondary containment, grading, rock, purchase tanks) Interim, short-term SWF Modifications Interim, short-term SWF Modifications Interim, short-term SWF Modifications Interim, short-term SWF Modifications Interim, short-term SWF Modification, Rock Interim Swf Modification	1 EIR consulting (follow up agency discussions to support the SWF's Regular CDP)		1	\$	10,000	\$	10,0
Interim, short-term SWF Modifications Modifications to facilitate off-hauling RO waste (secondary containment, grading, rock, purchase tanks) a) Secondary Containment, Grading, Rock 1	2 Section 7 ESA consulting, annual AMP report, & AMP update		1	\$	100,000	\$	100,0
Modifications to facilitate off-hauling RO waste (secondary containment, grading, rock, purchase tanks) a) Secondary Containment, Grading, Rock b) Tank purchase Priority 1 Subtotal Miscelaneous instrumentation / monitoring upgrades Priority 2 Subtotal Consulting assistance for coordination with Army Corps on WRDA grant (meetings, redefine work plan, & update scope of work) Work) AWTP pull-barn style covers for outdoor equipment & control panels (1,2) Sems, Hach WilMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming assistance) Sems, Hach WilMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming assistance) Solar Array System (1,2) Priority 2 Total Priority 1 Total Priority 2 Total		Priority :	1 Subtotal	\$	110,000	\$	110,0
a) Secondary Containment, Grading, Rock 1	·						
b) Tank purchase Priority 1 Subtotal Advanced Water Treatment Plant Miscelaneous instrumentation / monitoring upgrades Filters / membrane replacements (or build reserves for future) Consulting assistance for coordination with Army Corps on WRDA grant (meetings, redefine work plan, & update scope of work) Future permanent mods at SWF for trailer fill station [transfer tanks, piping, & spill contrainment/loading pad] (1,2) AWTP pull-barn style covers for outdoor equipment & control panels (1,2) Sems, Hach WIMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming assistance) Sems, Hach WIMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming assistance) Solar Array System (1,2) Priority 3 Subtotal Friority 3 Subtotal Priority 1 Total Priority 1 Total Priority 1 Total Priority 1 Total Priority 2 Total							
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Advanced Water Treatment Plant I. Miscelaneous instrumentation / monitoring upgrades 2 \$ 10,000 \$ 10 2 Filters / membrane replacements (or build reserves for future) 2 \$ 10,000 \$ 10	b) Tank purchase				-	_	80,0
Miscelaneous instrumentation / monitoring upgrades 2 \$ 10,000 \$ 10 2 Filters / membrane replacements (or build reserves for future) 2 Priority 2 Subtotal \$ 10,000 \$ 10 Long-Term Improvement Modifications Consulting assistance for coordination with Army Corps on WRDA grant (meetings, redefine work plan, & update scope of work) 1 \$ 40,000 \$ 40 2 Future permanent mods at SWF for trailer fill station [transfer tanks, piping, & spill contrainment/loading pad] (1,2) 2 \$ 200,000 \$ 20 3 AWTP pull-barn style covers for outdoor equipment & control panels (1,2) 2 \$ 50,000 \$ 50 Sems, Hach WIMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming assistance) 3 \$ 25,000 \$ 25 5 Installation of remote sensing instrumentation at SS creek (needs access agreement with State Parks) 3 \$ 10,000 \$ 10 5 Solar Array System (1,2) Priority 3 Subtotal \$ 410,000 \$ 41 5 Priority 1 Total \$ 250 6 Priority 1 Total \$ 250 6 Priority 2 Total \$ 250 6 Priority 2 Total \$ 250 6 Priority 2 Total \$ 260 6 Priority 2 Total \$ 260 6 Priority 2 Total \$ 260		Priority :	1 Subtotal	Ş	100,000	Ş	100,0
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W Eld	Vastewater Projects Vastewater Treatment Plant Projects in SST Lectrical Upgrades (ECM 7) - Conduits between PG&E transformer and service witchboard, switchboard, connections to existing switchboard, connections to generator) econdary Water System (3W) Improvements (ECM 10) - Submersible pumps, hydrpneumatic tank, demo, electrical/I&C ewer Lift Stations (ECM 12) - Lift Station B1, Lift Station B4, Electrical/I&C filuent Lift Station Modifications (ECM 2) - Bypassing; VFDs; Equipment & Material Demo; Pumps, guiderails, valves, and iping installation; upper concrete wet well deck & hatches (installation); electrical/I&C new concrete and repair coatings // Modified Ludzak-Ettinger Process Upgrade (ECM 3) - MLE conversion based on Carollo 2015 Study minus VFD costs; eader repair influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design ffluent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; lowmeter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; lectrical/I&C IAS and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/I&C CADA System (ECM 9) - New SCADA system based on Carolla 10% Design lackup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup lludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C **Treatment Plant Projects Not in SST** llarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) **Treatment Plant Projects Not in SST** llarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) **Treatment Plant Projects Not in SST** llarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) **Treatment Plant Projects Not in	SST SST SST SST SST SST SST SST SST ST ST SUbtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$	232,500 185,000 3,945,000 846,250 853,750 1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	232,500 185,000 3,945,000 846,250 1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 425,000 250,000 85,000
1 ex	econdary Water System (3W) Improvements (ECM 10) - Submersible pumps, hydrpneumatic tank, demo, electrical/I&C ewer Lift Stations (ECM 12) - Lift Station B1, Lift Station B4, Electrical/I&C Influent Lift Station Modifications (ECM 2) - Bypassing; VFDs; Equipment & Material Demo; Pumps, guiderails, valves, and iping installation; upper concrete wet well deck & hatches (installation); electrical/I&C new concrete and repair coatings Anodified Ludzak-Ettinger Process Upgrade (ECM 3) - MLE conversion based on Carollo 2015 Study minus VFD costs; leader repair Influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design Iffluent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; lowmeter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; lectrical/I&C AS and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/I&C CADA System (ECM 9) - New SCADA system based on Carolla 10% Design Backup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup Blower System Improvements (ECM 4) - Replace 2 blowers; duct replacement Bludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C Freatment Plant Projects Not in SST Blarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Freatment Plant Projects Not in SST Blarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Freatment Plant Projects Not in SST Blarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Freatment Plant Projects Not in SST Blarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Freatment Plant Projects Freatment Plant Projects Freatment Plant Projects Fr	SST ST ST	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	185,000 3,945,000 846,250 1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	185,000 3,945,000 846,250 1,060,000 733,750 496,250 721,250 497,500 1,345,000 35,000 425,000 85,000
2 Se 2 3 Se 2 3 Se 3 Se 3 Se 3 Se 3 Se 3	econdary Water System (3W) Improvements (ECM 10) - Submersible pumps, hydrpneumatic tank, demo, electrical/I&C ewer Lift Stations (ECM 12) - Lift Station B1, Lift Station B4, Electrical/I&C influent Lift Station Modifications (ECM 2) - Bypassing; VFDs; Equipment & Material Demo; Pumps, guiderails, valves, and iping installation; upper concrete wet well deck & hatches (installation); electrical/I&C new concrete and repair coatings indicated Ludzak-Ettinger Process Upgrade (ECM 3) - MLE conversion based on Carollo 2015 Study minus VFD costs; leader repair influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design influent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; lowmeter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; lectrical/I&C indicated Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/I&C CADA System (ECM 9) - New SCADA system based on Carolla 10% Design indicated Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup illudge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C irreatment Plant Projects Not in SST larifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) iff Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. iff Station B-3 (Green St./W. Lodge Hill) new control panel iff Station B-3 (Green St./W. Lodge Hill) new control panel iff Station B-3 (Green St./W. Lodge Hill) new control panel iff Station B-3 (Green St./W. Lodge Hill) new control panel	SST ST ST	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	185,000 3,945,000 846,250 1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	185,000 3,945,000 846,250 1,060,000 733,750 496,250 721,250 497,500 1,345,000 35,000 425,000 85,000
2	ewer Lift Stations (ECM 12) - Lift Station B1, Lift Station B4, Electrical/I&C Influent Lift Station Modifications (ECM 2) - Bypassing; VFDs; Equipment & Material Demo; Pumps, guiderails, valves, and iping installation; upper concrete wet well deck & hatches (installation); electrical/I&C new concrete and repair coatings and installation; upper concrete wet well deck & hatches (installation); electrical/I&C new concrete and repair coatings and odified Ludzak-Ettinger Process Upgrade (ECM 3) - MLE conversion based on Carollo 2015 Study minus VFD costs; neader repair Influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design and fluent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; lowmeter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; electrical/I&C IAS and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/I&C CADA System (ECM 9) - New SCADA system based on Carolla 10% Design lackup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup Blower System Improvements (ECM 4) - Replace 2 blowers; duct replacement Bludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C Freatment Plant Projects Not in SST Barifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Collection System Projects Iff Station B-2 (Wood Dr./E. Lodge Hill) new control panel Iff Station B-3 (Green St./W. Lodge Hill) new control panel Iff Station B-3 (Green St./W. Lodge Hill) new control panel Iff Station B-3 (Green St./W. Lodge Hill) new control panel	SST ST ST	\$ \$ \$ \$ \$ \$ \$ \$	3,945,000 846,250 853,750 1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 425,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,945,000 846,250 1,060,000 733,750 496,250 721,250 497,500 1,345,000 35,000 425,000 85,000
Interpretation Inte	Influent Lift Station Modifications (ECM 2) - Bypassing; VFDs; Equipment & Material Demo; Pumps, guiderails, valves, and iniping installation; upper concrete wet well deck & hatches (installation); electrical/I&C new concrete and repair coatings and iniping installation; upper concrete wet well deck & hatches (installation); electrical/I&C new concrete and repair coatings and foliation; upper concrete wet well deck & hatches (installation); electrical/I&C new concrete and repair coatings and foliation; upper properties and the concrete and repair coatings and foliation; needer repair and foliation; upper properties (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design influent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; lowmeter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; electrical/I&C and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/I&C and WAS Pumping Improvements; electrical/I&C and System (ECM 9) - New SCADA system based on Carolla 10% Design lackup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup lackup Power (ECM 8) - Replace 2 blowers; duct replacement ludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C areatment Plant Projects Not in SST clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) and control papel at grade el. ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel ift Station 4 (DeVault PI/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST ST ST	\$ \$ \$ \$ \$ \$ \$	3,945,000 846,250 853,750 1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 425,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,945,00 846,25 853,75 1,060,00 733,75 496,25 721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 250,00 85,00
pi 4	Addified Ludzak-Ettinger Process Upgrade (ECM 3) - MLE conversion based on Carollo 2015 Study minus VFD costs; neader repair influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design influent Plomp Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; lowmeter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; electrical/I&C in a manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; electrical/I&C in a manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; electrical/I&C in a manifold piping in the provements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/I&C in a provent (ECM 9) - New SCADA system based on Carolla 10% Design lackup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup elower System Improvements (ECM 4) - Replace 2 blowers; duct replacement ludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C in a manifer pumps in the projects in the project in the projects in the proje	SST SST SST SST SST SST SST SST SST ST ST SUbtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$	853,750 1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	853,75 1,060,00 733,75 496,25 721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 250,00 85,00
4	Modified Ludzak-Ettinger Process Upgrade (ECM 3) - MLE conversion based on Carollo 2015 Study minus VFD costs; leader repair influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design ffluent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; lowmeter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; electrical/I&C lower and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/I&C lower (ECM 9) - New SCADA system based on Carolla 10% Design lower (ECM 8) - 365 kW NG Generator; Demo; Propane backup elower (ECM 8) - 365 kW NG Generator; Demo; Propane backup lower (ECM 8) - Replace 2 blowers; duct replacement lougher Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; lorder Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; lorder Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; lorder Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; lorder Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; lorder Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; lorder Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; lorder Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; lorder Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; lorder Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilitation t	SST SST SST SST SST SST SST SST SST ST ST SUbtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$	853,750 1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	853,75 1,060,00 733,75 496,25 721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 250,00 85,00
5 he 6 Int Ffic 7 ele 7 ele 8 sk 9 SC 10 Ba 11 Ble 11 Cl: Ca 1 Liff 2 Liff 3 Liff 8 Liff 9 Lif 1 Lif 2 Ar	reader repair Influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design Iffluent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; Idward Rowerter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; Idectrical/I&C IAS and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; Ikimming troughs replacement; electrical/I&C IAS System (ECM 9) - New SCADA system based on Carolla 10% Design Iackup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup Idward System Improvements (ECM 4) - Replace 2 blowers; duct replacement Induge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; Ideration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C Ideration System Projects Not in SST Iderifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Indication System Projects Iff Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. Iff Station B-3 (Green St./W. Lodge Hill) new control panel Iff Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST SST SST SST SST SST SST SST SST ST ST Subtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$	853,750 1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	853,75 1,060,00 733,75 496,25 721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 250,00 85,00
5 he 6 Int 6 Int 6 Int 7 ele 7 ele 7 ele 8 sk 9 SC 10 Bat 11 Ble 11 Cla 11 Liff 2 Liff 3 Liff 4 Fix 5 Ar 6 ye 7 Liff 8 Lift 9 Lif 1 Lif 2 Ar	reader repair Influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design Iffluent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; Idward Rower (discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; Idectrical/I&C IAS and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; Ikimming troughs replacement; electrical/I&C IAS System (ECM 9) - New SCADA system based on Carolla 10% Design Ideckup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup Idlower System Improvements (ECM 4) - Replace 2 blowers; duct replacement Induge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; Ideration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C Ideration System Projects Not in SST Iderifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Indication System Projects Iff Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. Iff Station B-3 (Green St./W. Lodge Hill) new control panel Iff Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST SST SST SST SST SST SST SST ST ST SUbtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$	1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,060,00 733,75 496,25 721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 85,00
6	Influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design Iffluent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; Identification Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; Identification Improvements (ECM 5) - RAS pumping system; pipeline cleaning and flushing; Identification Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; Identification Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; Identification Improvements (ECM 4) - Replace 2 Design Identification Improvements Identification Identification Improvements Identification Improvem	SST SST SST SST SST SST SST SST ST ST SUbtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$	1,060,000 733,750 496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,060,00 733,75 496,25 721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 85,00
Float Floa	lowmeter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; electrical/I&C AS and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/I&C CADA System (ECM 9) - New SCADA system based on Carolla 10% Design Backup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup Blower System Improvements (ECM 4) - Replace 2 blowers; duct replacement Bludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C Freatment Plant Projects Not in SST Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Follection System Projects iff Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. iff Station B-3 (Green St./W. Lodge Hill) new control panel iff Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST SST SST SST SST SST SST Subtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$	496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	496,25 721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 250,00 85,00
7 eld RA 8 sk 9 SC 10 Ba 11 Bla 11 Slu 12 ae 7 Tr 1 Cla 1 Liff 2 Liff 3 Liff 4 Fix 5 Ar 4 Ar 6 yee 7 Liff 8 Liff 9 Lift 1 Lift 2 Ar	AS and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/1&C CADA System (ECM 9) - New SCADA system based on Carolla 10% Design Backup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup Blower System Improvements (ECM 4) - Replace 2 blowers; duct replacement Bludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/1&C Freatment Plant Projects Not in SST Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Follection System Projects ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST SST SST SST SST SST SST Subtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$	496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	496,25 721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 250,00 85,00
8	AS and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; kimming troughs replacement; electrical/I&C CADA System (ECM 9) - New SCADA system based on Carolla 10% Design tackup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup slower System Improvements (ECM 4) - Replace 2 blowers; duct replacement ludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C Freatment Plant Projects Not in SST Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Follection System Projects ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST SST SST SST SST SST SST Subtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$	496,250 721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	496,25 721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 85,00
8 sk sk 9 SC 10 Ba 11 Blo Slu 12 ae 11 Cla 12 Lift 14 Fix 5 Ar 14 Cla 14 Lift 15 Ar 15 Ar 16 ye 16 Lift 17 Lift 17 Lift 18 Lift 19 Lift 17 Lif	kimming troughs replacement; electrical/I&C CADA System (ECM 9) - New SCADA system based on Carolla 10% Design tackup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup Blower System Improvements (ECM 4) - Replace 2 blowers; duct replacement ludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C Freatment Plant Projects Not in SST Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Follection System Projects ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST SST SST SST SST SST Subtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$	721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 85,00
9 SC 10 Ba 11 Blu Slu 12 ae Tr. 1 Cla Ca 1 Liff 5 Ar Ar 6 yee 7 Lift 8 Lift 9 Lift 1 Lift 1 Lift 2 Ar	CADA System (ECM 9) - New SCADA system based on Carolla 10% Design lackup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup lower System Improvements (ECM 4) - Replace 2 blowers; duct replacement ludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C Freatment Plant Projects Not in SST Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Follection System Projects iff Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. iff Station B-3 (Green St./W. Lodge Hill) new control panel iff Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST SST SST SST SST SST Subtotal 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$	721,250 497,500 1,345,000 961,250 11,877,500 35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	721,25 497,50 1,345,00 961,25 11,877,50 35,00 425,00 85,00
11 Blo Slu	Rlower System Improvements (ECM 4) - Replace 2 blowers; duct replacement Rludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; Reration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C Rereatment Plant Projects Not in SST Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Rollection System Projects Iff Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. Iff Station B-3 (Green St./W. Lodge Hill) new control panel Iff Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST Subtotal 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$	35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$	1,345,00 961,25 11,877,50 35,00 425,00 250,00 85,00
Slu ae	ludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; eration system and control valve; demo of clarifiers; rolloff area with roof; electrical/l&C Freatment Plant Projects Not in SST Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Follection System Projects ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	SST Subtotal 1 1 1 1 1 1	\$ \$ \$ \$ \$	961,250 11,877,500 35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$	961,25 11,877,50 35,00 425,00 250,00 85,00
2 ae 7r 1 Cl: Ca 1 Liff 1 Liff 5 Ar Ar 5 ye 7 Liff 8 Liff 1 Liff 1 Liff 1 Liff 1 Liff 1 Liff	Creatment Plant Projects Not in SST Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Collection System Projects ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	1 1 1 1 1 1	\$ \$ \$ \$ \$	35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$	35,00 425,00 250,00 85,00
77. 1 Cli Ca 1 Liff 2 Liff 3 Liff 4 Fiv 5 Ar 6 ye 7 Liff 8 Liff 9 Lif 1 Liff 1 Ar	Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Collection System Projects ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	1 1 1 1 1 1	\$ \$ \$ \$ \$	35,000 425,000 250,000 85,000	\$ \$ \$ \$ \$	35,00 425,00 250,00 85,00
1 Cla	Clarifier Repairs (replace eastern drive unit's metalic hubs with non-corrosive hubs) Collection System Projects ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	1 1 1 1 1	\$ \$ \$	35,000 425,000 250,000 85,000	\$ \$	35,00 425,00 250,00 85,00
Ca Ca Ca Ca Ca Ca Ca Ca	ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	1 1 1 1	\$ \$	425,000 250,000 85,000	\$	425,00 250,00 85,00
1 Lift 2 Lift 3 Lift 4 Fix 5 Ar 6 yee 7 Lift 8 Lift 9 Lift 1 Lift 2 Ar	ift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el. ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	1 1 1	\$	250,000 85,000	\$	250,00 85,00
2 Liff 3 Liff 4 Fiv 5 Ar 6 ye 7 Liff 8 Liff 1 Liff 2 Ar	ift Station B-3 (Green St./W. Lodge Hill) new control panel ift Station 4 (DeVault PI/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	1 1 1	\$	250,000 85,000	\$	250,00 85,00
3 Lift 4 Fiv. 5 Ar 6 yee 7 Lift 8 Lift 9 Lift 1 Lift 2 Ar	ift Station 4 (DeVault PI/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	1 1	\$	85,000	\$	85,00
4 Five Five Five Five Five Five Five Five		1	_		_	
Ar A				10,000		20,0
ye y	nnual manhole inspections and report on needed corrections (approx. 20% of system/yr)	1	\$	40,000	\$	400,0
7 Liff 8 Liff 9 Liff 1 Liff 2 Ar	annual Collection System Phased televising & cleaning (revised 11/20/18 reduced cost by 50% & extended number of					
8 Liff 9 Liff 1 Liff 2 Ar	ears - SSMP has this over 10 yrs,)	1	\$	50,000		500,00
Lif Lif 2 Ar 1 Ar	ift Station A (Nottingham & Leighton/Park Hill) new submsersible pumps, MCC, bypass piping ift Station A (Nottingham & Leighton/Park Hill) control panel at grade el	1	\$	400,000 90,000	_	400,00 90,00
1 Lif 2 Ar	ift Station A-1 (Sherwood & Harvey/Marine Terrace) submersible pumps, MCC, bypass piping	1	\$	265,000		265,00
2 Ar 1 Ar		Subtotal	\$	1,615,000		2,435,00
2 Ar 1 Ar						
1 Ar	ift Station B improvements (SR Creek/behind Park Hill) new control panel	2	\$	75,000		75,00
	Innual manhole raising due to street overlays & roadway work/Manhole cover replacements	2 Subtotal	\$ \$	10,000 85,000		100,00 175,0 0
		Justotui	<u> </u>	05,000	_	175,0
2 Lif	nnual Collection System Repairs to reduce I/I & damaged pipe sections	3	\$	50,000	\$	500,00
	ift Station B - new wet well, submersible pumps, and valve vault (placeholder)	3	\$	300,000		300,00
	collection System Assessment software (E.g., t4 Spatial or other) Annual Collection System Assessment/engineering for repairs (extended number of years - SSMP has this occurring over	3	\$	10,000	\$	10,00
	Oyrs)	3	\$	30,000	¢	300,00
	ift Station B-3 (Green St./W. Lodge Hill) submserible pumps, MCC, bypass piping	3	\$	250,000	_	250,00
6 Lif	ift Station B - replace existing generator	3	\$	60,000	\$	60,00
		Subtotal	\$	700,000	\$	1,420,00
1 0-	Inputal SCADA System Maintenance or Ungrades, Callections System	4	<u>ر</u>	35,000	<u> </u>	25.00
	Innual SCADA System Maintenance or Upgrades - Collections System Collection System smoke testing	4	\$	25,000 50,000	_	25,00 50,00
_ 00	oneoten of stem smake testing	Subtotal	_	75,000		75,0
Ve	rehicles and Trailer- Mounted Equipment					
	earpoint or equal TV inspection camera (removed cost from mid year total to meet reduced funding balance,					
		1	\$	50,000		50,00
2 Va	1/20/2018.)	1 Subtotal	\$ ¢	518,000 568,000		518,00 568,0 0
	.1/20/2018.) /actor truck - replace with new \$430K truck that meets emssion requirements (7 yr loan @ 4.5%)	Jubiotai	,	300,000	Ţ	300,00
3 Ve			\$	25,000	\$	250,0
		3				
	Vactor truck - replace with new \$430K truck that meets emssion requirements (7 yr Ioan @ 4.5%) Vehicle Replacement Program (Annual reserves)	3			Ś	150,0
	Vactor truck - replace with new \$430K truck that meets emssion requirements (7 yr loan @ 4.5%) Vehicle Replacement Program (Annual reserves) Vortable equipment replacement program - backhoes, generators and pumps (Annual reserves)	3 4	\$	15,000		
	Vactor truck - replace with new \$430K truck that meets emssion requirements (7 yr loan @ 4.5%) Vehicle Replacement Program (Annual reserves) Vortable equipment replacement program - backhoes, generators and pumps (Annual reserves) Observed Major Maintenance	4				20.00
	Vactor truck - replace with new \$430K truck that meets emssion requirements (7 yr loan @ 4.5%) Vehicle Replacement Program (Annual reserves) Vortable equipment replacement program - backhoes, generators and pumps (Annual reserves) Volegerred Major Maintenance Cleaning of aeration basins (after screen installation)		\$ \$	20,000	\$	
	Vactor truck - replace with new \$430K truck that meets emssion requirements (7 yr loan @ 4.5%) Vehicle Replacement Program (Annual reserves) Vortable equipment replacement program - backhoes, generators and pumps (Annual reserves) Observed Major Maintenance	1 1	\$		\$	20,00 10,00 30,00
3 W	Vactor truck - replace with new \$430K truck that meets emssion requirements (7 yr loan @ 4.5%) Vehicle Replacement Program (Annual reserves) Vortable equipment replacement program - backhoes, generators and pumps (Annual reserves) Volegerred Major Maintenance Cleaning of aeration basins (after screen installation)	1 1	\$	20,000 10,000	\$	10,00

Wastewater CIP - Capital Improvement Program (Revised 5/6/2019 - For Discussion Only)								
2		Wastewater Projects	Ranking	Project Cost		10-Yr Cost		
61	5	Repainting of WWTP	2	\$ 30,000	\$	30,000		
62	6	Repainting of lift station facilities	2	\$ 10,000	\$	10,000		
63			Subtotal	\$ 40,000	\$	40,000		
64								
65	7	Seal coat AC pavement at WWTP	4	\$ 65,000	\$	65,000		
66			,	Grand Total	\$	17,120,500		
67				Priority 1 Total	\$	3,068,000		
68				Priority 2 Total	\$	215,000		
69				Priority 3 Total	\$	1,670,000		
70				Priority 4 Total	\$	290,000		
71				SST Total	\$	11,877,500		