

Regular Business Item 3 E Attachment

A	B	C	D	E	F	G
1	Wastewater CIP - Capital Improvement Program (Revised 4/1/2020 - For Discussion Only)					
2	Wastewater Projects	Ranking	Project Cost	10-Yr Cost	Actual Cost	Notes
3	FY	Wastewater Treatment Plant Projects in SST				
4	19-20	Investment Grade Audit (30% Design for all ECMs)	SST	\$ 160,000	\$ 688,404	Added 2/26
5		Electrical Upgrades (ECM 7) - Conduits between PG&E transformer and service witchboard, switchboard, connections to existing switchboard, connections to generator)	SST	\$ 232,500	\$ 232,500	
6		Secondary Water System (3W) Improvements (ECM 10) - Submersible pumps, hydrpneumatic tank, demo, electrical/I&C	SST	\$ 185,000	\$ 185,000	
7		Sewer Lift Stations (ECM 12) - Lift Station B1, Lift Station B4, Electrical/I&C	SST	\$ 3,945,000	\$ 3,945,000	
8		Influent Lift Station Modifications (ECM 2) - Bypassing; VFDs; Equipment & Material Demo; Pumps, guiderails, valves, and piping installation; upper concrete wet well deck & hatches (installation); electrical/I&C; new concrete and repair coatings	SST	\$ 846,250	\$ 846,250	
9		Modified Ludzak-Ettinger Process Upgrade (ECM 3) - MLE conversion based on Carollo 2015 Study minus VFD costs; header repair	SST	\$ 853,750	\$ 853,750	
10		Influent Flow Equalization (ECM 1) - New or refurbished EQ tanks based on Carollo 10% design	SST	\$ 1,060,000	\$ 1,060,000	
11		Effluent Pump Station Improvements (ECM 11) - Demo; surge tank replacement; pump replacement; install new VFDs; flowmeter; discharge manifold piping; instrumentation; replace air release valves; pipeline cleaning and flushing; electrical/I&C	SST	\$ 733,750	\$ 733,750	
12		RAS and WAS Pumping Improvements (ECM 5) - RAS pumping system; WAS pumping system; scum pumps replacement; skimming troughs replacement; electrical/I&C	SST	\$ 496,250	\$ 496,250	
13		SCADA System (ECM 9) - New SCADA system based on Carolla 10% Design	SST	\$ 721,250	\$ 721,250	
14		Backup Power (ECM 8) - 365 kW NG Generator; Demo; Propane backup	SST	\$ 497,500	\$ 497,500	
15		Blower System Improvements (ECM 4) - Replace 2 blowers; duct replacement	SST	\$ 1,345,000	\$ 1,345,000	
16		Sludge Thickening (ECM 6) - Rehabilitate rotary drum thickener and screw press; new transfer pumps; stabilization tanks; aeration system and control valve; demo of clarifiers; rolloff area with roof; electrical/I&C	SST	\$ 961,250	\$ 961,250	
17		Subtotal		\$ 12,037,500	\$ 12,565,904	
18		Treatment Plant Projects Not in SST				
19	18-19	Replace Digester Catwalks	1	\$ 45,000	\$ 45,000	\$ 43,720
20	18-19	Influent screen, support platform design, & installation	1	\$ 164,509	\$ 164,509	\$ 156,675
21		Clarifier Repairs (replace eastern drive unit's metallic hubs with non-corrosive hubs)	1	\$ 35,000	\$ 35,000	
22		Subtotal		\$ 244,509	\$ 244,509	\$ 200,395
23		Collection System Projects				
24		Lift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el.	1	\$ 425,000	\$ 425,000	
25		Lift Station B-3 (Green St./W. Lodge Hill) new control panel	1	\$ 250,000	\$ 250,000	
26		Lift Station 4 (DeVault Pl/Seaclift Estates) VFDs /new elect panel & 3 phase pump motors	1	\$ 85,000	\$ 85,000	
27		Lift Station A (Nottingham & Leighton/Park Hill) new submersible pumps, MCC, bypass piping	1	\$ 400,000	\$ 400,000	
28		Lift Station A (Nottingham & Leighton/Park Hill) control panel at grade el	1	\$ 90,000	\$ 90,000	
29		Lift Station A-1 (Sherwood & Harvey/Marine Terrace) submersible pumps, bypass piping	1	\$ 265,000	\$ 265,000	
30	19-20	Lift Station A-1 (Sherwood & Harvey/Marine Terrace) MCC, SCADA improvements	1	\$ 45,000	\$ 45,000	\$ 50,835
31		Subtotal		\$ 1,560,000	\$ 1,560,000	\$ 50,835
32		Lift Station B improvements (SR Creek/behind Park Hill) new control panel	2	\$ 75,000	\$ 75,000	
33		Lift Station B - new wet well, submersible pumps, and valve vault (placeholder	3	\$ 300,000	\$ 300,000	
34		Collection System Assessment software (E.g, t4 Spatial or other)	3	\$ 10,000	\$ 10,000	
35		Annual Collection System Assessment/engineering for repairs (extended number of years - SSMP has this occurring over 10 yrs)	3	\$ 30,000	\$ 300,000	
36		Lift Station B-3 (Green St./W. Lodge Hill) submersible pumps, MCC, bypass piping	3	\$ 250,000	\$ 250,000	
37		Lift Station B - replace existing generator	3	\$ 60,000	\$ 60,000	
38		Subtotal		\$ 650,000	\$ 920,000	
39		Annual SCADA System Maintenance or Upgrades - Collections System	4	\$ 25,000	\$ 25,000	
40		Collection System smoke testing	4	\$ 50,000	\$ 50,000	
41		Subtotal		\$ 75,000	\$ 75,000	

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2	Wastewater Projects	Ranking	Project Cost	10-Yr Cost	Actual Cost	Notes
42	Vehicles and Trailer- Mounted Equipment					
43	19-20 Pearpoint or equal TV inspection camera (removed cost from mid year total to meet reduced funding balance, 11/20/2018.)	1	\$ 50,000	\$ 50,000		
44	18-19 F-350 Service Truck with Crane Body	1	\$ 57,040	\$ 57,040	\$ 56,540	
45	19-20 Vactor truck - replace with new \$430K truck that meets emssion requirements (7 yr loan @ 4.5%)	1	\$ 518,000	\$ 518,000	\$ 402,435	
46	19-20 Replacement Rack Truck (F-150)	-	\$ -	\$ -	\$ 24,193	
47		Subtotal	\$ 625,040	\$ 625,040	\$ 483,168	
48	Non-CIP Wastewater Projects	Ranking	Project Cost	10-Yr Cost	Actual Cost	
49	Major Maintenance					
50	18-19 Paint Digester Handrails	1	\$ 15,000	\$ 15,000	\$ 17,000	
51	Cleaning of aeration basins (after screen installation)	1	\$ 20,000	\$ 20,000		
52	Cleaning of pipelines from headworks to aeration tanks (after screen installation), including cleanout additions	1	\$ 10,000	\$ 10,000		
53	Annual Collection System Repairs to reduce I/I & damaged pipe sections	1	\$ 50,000	\$ 500,000		
54	Annual manhole raising due to street overlays & roadway work/Manhole cover replacements	1	\$ 10,000	\$ 100,000		
55		Subtotal	\$ 105,000	\$ 645,000	\$ 17,000	
56	Western clarifier - Replace clarifier chain, wear shoes, skid plates, & sprockets	2	\$ 40,000	\$ 40,000		
57	Eastern clarifier - Replace clarifier chain, wear shoes, skid plates, & sprockets	2	\$ 40,000	\$ 40,000		
58	Repainting of WWTP	2	\$ 30,000	\$ 30,000		
59	Repainting of lift station facilities	2	\$ 10,000	\$ 10,000		
60		Subtotal	\$ 120,000	\$ 120,000		
61	Seal coat AC pavement at WWTP	4	\$ 65,000	\$ 65,000		
62	Annual Inspections and Reserves					
63	Annual manhole inspections and report on needed corrections (approx. 20% of system/yr)	1	\$ 40,000	\$ 400,000		
64	Annual Collection System Phased televising & cleaning (revised 11/20/18 reduced cost by 50% & extended number of years - SSMP has this over 10 yrs)	1	\$ 50,000	\$ 500,000		
65	Five-Year Replacement and New PCs for operators (Initial purchase and then build reserves)	1	\$ 10,000	\$ 20,000		
66	Vehicle Replacement Program (Annual reserves)	1	\$ 25,000	\$ 250,000		
67	Portable equipment replacement program - backhoes, generators and pumps (Annual reserves)	1	\$ 15,000	\$ 150,000		
68		Subtotal	\$ 140,000	\$ 1,320,000		
69		Grand Total	\$ 18,215,453	\$ 751,398		
70	Budgeted for FY 2019-2020		Priority 1 Total	\$ 4,394,549	\$ 751,398	
71	Completed		Priority 2 Total	\$ 195,000		
72	In Progress		Priority 3 Total	\$ 920,000		
73	Not Started		Priority 4 Total	\$ 140,000		
74			SST Total	\$ 12,565,904		

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1	Water CIP - Capital Improvement Program (Revised 4/1/2020 - For Discussion Only)						
2		Ranking	Project Cost	10 yr Cost	Actual Cost	Notes	
3	FY	Water Distribution System Projects					
4	19-20	Pressure Zone 2 to Zone 7 transmission main replacement @ SR Creek pedestrian bridge	1	\$ 120,000	\$ 120,000	\$ 4,471	In Permitting
5	19-20	Water Meter Replacements & Upgrades (phased)	1	\$ 186,000	\$ 1,050,000	\$ 500	Developing RFP
6		Piney Way erosion control inspection report and follow-up protection efforts for existing pipeline	1	\$ 10,000	\$ 10,000		
7		Priority 1 Subtotal		\$ 316,000	\$ 1,180,000	\$ 4,971	
8		Subzone metering of distribution system	2	\$ 150,000	\$ 150,000		
9		Replacement of problematic service lines within Leimert	3	\$ 130,000	\$ 130,000		
10		Water Master Plan Amendment (revised fire flow modeling/tank sizing check)	3	\$ 35,000	\$ 35,000		
11		Priority 3 Subtotal		\$ 165,000	\$ 165,000		
12		Inspection & spot repair to water transmission main under S. Parks wetlands area; or lining of transmission main plus study & predesign	4	\$ 80,000	\$ 80,000		
13		Pine Knolls - Iva Court zone 1 pipeline expansion	4	\$ 165,000	\$ 165,000		
14		Priority 4 Subtotal		\$ 245,000	\$ 245,000		
15		Tank & Booster Pump Station Projects					
16	19-20	SCADA System - Long-term Water Portion	1	\$ 250,000	\$ 250,000	\$ 49,457	Phase 1 Done
17		Stuart Street Tank Replacement (125K gallon welded steel tank with new foundation)	2	\$ 458,000	\$ 458,000		Recategorized 2/26
18		Electrical transfer switch and conduit to well SS-3	2	\$ 25,000	\$ 25,000		
19	19-20	San Simeon well field generator replacement	2	\$ 100,000	\$ 100,000	\$ 50,449	
20		Priority 2 Subtotal		\$ 583,000	\$ 583,000	\$ 50,449	
21		Rodeo Grounds Pump Station Replacement (aka Zone 2 Booster pump station)	3	\$ 1,016,000	\$ 1,016,000		
22		Vehicles and Trailer-Mounted Equipment					
23	18-19	Replacement Dump Truck	1	\$ 76,000	\$ 76,000	\$ 74,871	
24	18-19	Trailer-Mounted Air Compressor	2	\$ 15,000	\$ 15,000	\$ 22,557	
25	18-19	Trailer-Mounted Vacuum Extractor	2	\$ 48,000	\$ 48,000	\$ 46,169	
26		Priority 2 Subtotal		\$ 63,000	\$ 63,000	\$ 68,726	
27		Non-CIP Projects					
28		Major Maintenance					
29		Annual Water pipelines, pumps, and PRV repairs and replacements	3	\$ 50,000	\$ 500,000	\$ 19,126	Recategorized 2/26
30		Valve Replacements	3	\$ 20,000	\$ 20,000		Recategorized 2/26
31		Priority 3 Subtotal		\$ 70,000	\$ 520,000	\$ 19,126	
32		Water conservation					
33		Database for water conservation program/tracking with parcel links & APN file conversion	1	\$ 10,000	\$ 10,000		
34		Annual Inspections & Reserves					
35		Annual GIS updating & upgrades	1	\$ 10,000	\$ 100,000		Recategorized 2/26
36		Vehicle Replacement Program Reserves (Accumulate Funds)	1	\$ 25,000	\$ 250,000		
37		Contingency/reserves (Accumulate Funds)	1	\$ 15,000	\$ 150,000		
38		Priority 1 Subtotal		\$ 60,000	\$ 510,000		
39		Grand Total		\$ 4,619,000	\$ 267,600		
40				Priority 1 Total	\$ 1,940,000	\$ 129,299	
41				Priority 2 Total	\$ 733,000	\$ 119,175	
42				Priority 3 Total	\$ 1,701,000	\$ 19,126	
43				Priority 4 Total	\$ 245,000		
44	SWF CIP - Capital Improvement Program (Revised 4/30/2019 - For Discussion Only)						
45		Ranking	Project Cost	10 yr Cost	Actual Cost		
46		Permitting					
47		EIR consulting (follow up agency discussions to support the SWF's Regular CDP)	1	\$ 28,609	\$ 28,609		Increased cost 2/26
48	19-20	Section 7 ESA consulting, annual AMP report, & AMP update	1	\$ 100,000	\$ 100,000	\$ 40,487	
49		Priority 1 Subtotal		\$ 128,609	\$ 128,609	\$ 40,487	
50		Interim, short-term SWF Modifications					
51	18-19	Short-term flood damage mitigation	1	\$ 10,000	\$ 10,000	\$ 12,566	Recorded as M&R
52	18-19	Hauling of last 18" of water and cleaning impoundment	1	\$ 35,000	\$ 35,000	\$ 94,515	
53		Modifications to facilitate off-hauling RO waste (secondary containment, grading, rock, purchase tanks)					
54	19-20	a) Secondary Containment, Grading, Rock	1	\$ 20,000	\$ 20,000	\$ 473	Recorded as M&R
55	19-20	b) Tank purchase	1	\$ 80,000	\$ 80,000	\$ 27,563	
56		Priority 1 Subtotal		\$ 145,000	\$ 145,000	\$ 135,118	
57		Advanced Water Treatment Plant					
58		Miscellaneous instrumentation / monitoring upgrades	2	\$ 10,000	\$ 10,000		
59	19-20	Filters / membrane replacements and build reserves for future	2	\$ 60,000	\$ 120,000	\$ 59,639	Revised 2/26
60		Priority 2 Subtotal		\$ 70,000	\$ 130,000	\$ 59,639	
61		Long-Term Improvement Modifications					
62		Consulting assistance for coordination with Army Corps on WRDA grant (meetings, redefine work plan, & update scope of work)	1	\$ 40,000	\$ 40,000		
63		Future permanent mods at SWF for trailer fill station [transfer tanks, piping, & spill containment/loading pad] (1,2)	2	\$ 200,000	\$ 200,000		
64		AWTP pull-barn style covers for outdoor equipment & control panels (1,2)	2	\$ 50,000	\$ 50,000		
65		Priority 2 Subtotal		\$ 250,000	\$ 250,000		
66		Sems, Hach WIMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming assistance)	3	\$ 25,000	\$ 25,000		
67		Installation of remote sensing instrumentation at SS creek (needs access agreement with State Parks)	3	\$ 10,000	\$ 10,000		
68		Solar Array System (1,2)	3	\$ 375,000	\$ 375,000		
69		Priority 3 Subtotal		\$ 410,000	\$ 410,000		
70		Grand Total		\$ 1,103,609	\$ 235,244		
71		Budgeted for FY 2020		Priority 1 Total	\$ 313,609	\$ 175,605	
72		Completed		Priority 2 Total	\$ 380,000	\$ 59,639	
73		In Progress		Priority 3 Total	\$ 410,000		
74		Not Started		Priority 4 Total	-		