

ENGINEERING REPORT

March 31, 2023

To: PBCSD Board of Directors
From: Nick Becker, District Engineer
By: Chris Simmons, Associate Engineer
Subject: 2023/24 Long-Term Capital Outlay Program



RECOMMENDATION

Approve the 2023/24 Long-Term Capital Outlay Program.

SUMMARY OF ISSUES

The PBCSD 2023/24 Long-Term Capital Outlay Program (LTCOP) 15-year total cost is as follows:

Department	FY2023/24	FY2022/23	Variance
Administration	\$ 2,060,000	\$ 2,482,000	-17%
Fire	\$ 7,773,000	\$ 8,094,000	-4%
Wastewater	\$ 27,476,000	\$ 19,621,000	40%
CAWD	\$ 6,240,000	\$ 7,049,000	-12%
Undergrounding	\$30,000,000	\$ 30,000,000	0%
PBCSD Total	\$73,549,000	\$ 67,246,000	9%
Reclamation	\$9,045,000	\$ 8,160,000	11%

PBCSD's capital responsibilities include Administration, Fire, and Wastewater Departments; a one-third (1/3) share of the Carmel Area Wastewater District (CAWD) Treatment Plant costs, and costs associated with Undergrounding Overhead Utilities program. The anticipated total cost of PBCSD's capital responsibilities amount to \$73,549,000. The 2023/24 LTCOP projected capital costs have increased approximately 9% from the previous year total of \$67,246,000.

Administrative department capital costs decreased by 17% from previous year, mainly attributed by roll-over allocations for the Administration Office Remodel and Parking Lot Paving projects.

Fire department capital costs decreased marginally by 4% from previous year. Decreased capital costs are largely attributed by roll-over allocations for the Carmel Hill Paving project in addition to adjusted/increased costs of fire response apparatus.

Wastewater Department capital costs have increased by 40% from previous year, mainly due to increasing annual allocation for Sewer & Manhole Replacement projects, and addition of recurring cost allocation for Sewer & Manhole CCTV Projects every ten years.

Capital expenditures for CAWD are front loaded in the next fiscal year due to an ongoing multiyear capital improvement project at the treatment plant. CAWD's projected capital costs have decreased by 12% from the previous year.

Undergrounding capital costs remain unchanged, annual costs and sequencing were adjusted for each year by allocating \$2,000,000 per year for the program. Staff anticipates that the current Underground Overhead Utilities Project (Phase III) will be completed before the end of FY2022/23, and the two remaining phases (Phase IV & V) of overhead mainline will be completed within the next ten years.

The anticipated total cost of Reclamation's capital responsibilities amount to \$9,045,000; these costs will be reimbursed to the District by the Reclamation Project. Capital cost for the Reclamation department increased from the previous year mainly attributed by staff's identification of eleven additional capital line items including replacement of cathodic protection systems, Forest Lake feed pump motor controllers, Forest Lake inlet/outlet motor operated valves, alternative source water project well pumps, along with increased costs associated with the replacement of the Hypalon liner at Forest Lake Reservoir.

As departmental capital improvement projects develop over the next year, anticipated costs and schedules will be updated, and priorities revisited accordingly.

BACKGROUND

Each spring, staff presents to the Board the LTCOP for the following fiscal year. The plan outlines PBCSD's capital improvements goals for the subsequent 15 years. Costs are based on current estimated prices and have not been escalated over the life of the plan. Capital items include both new and replacement capital facilities and equipment. The schedules of capital outlays and cost estimates have been prepared in consultation with PBCSD Staff, Fire Department Staff, and CAWD Treatment Plant Staff.



PEBBLE BEACH

COMMUNITY SERVICES DISTRICT

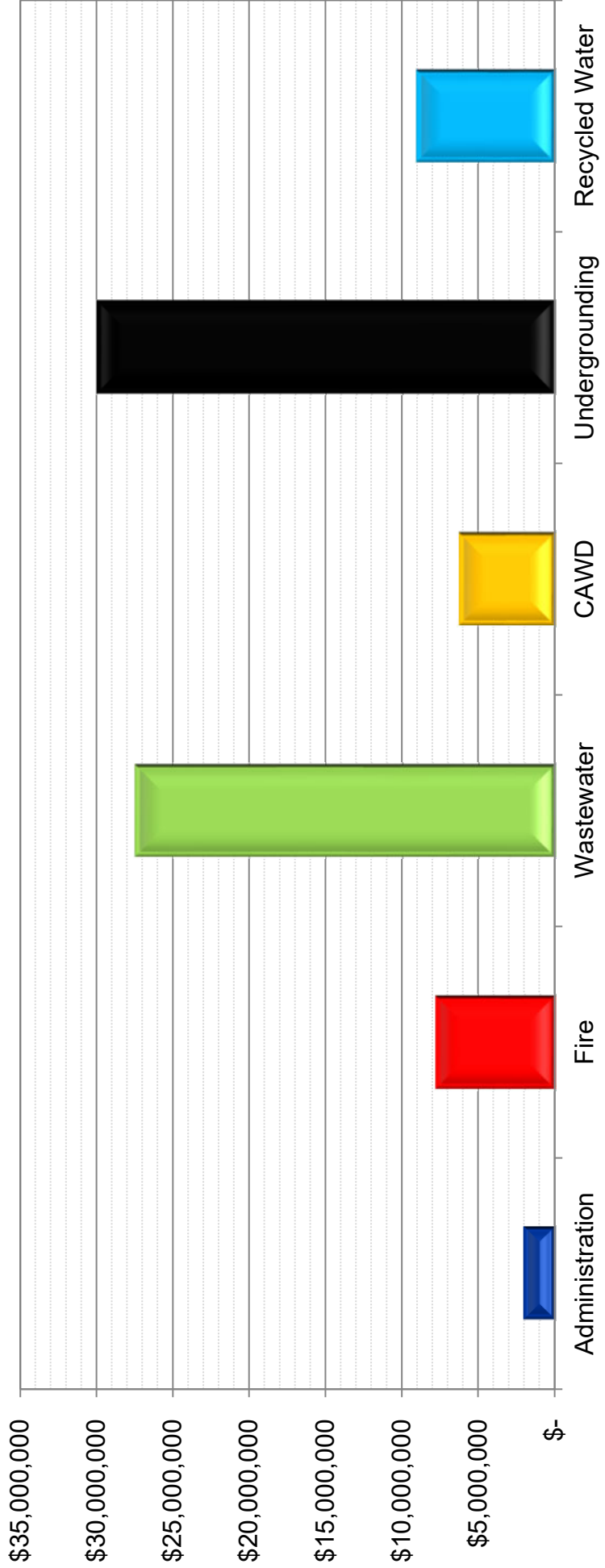
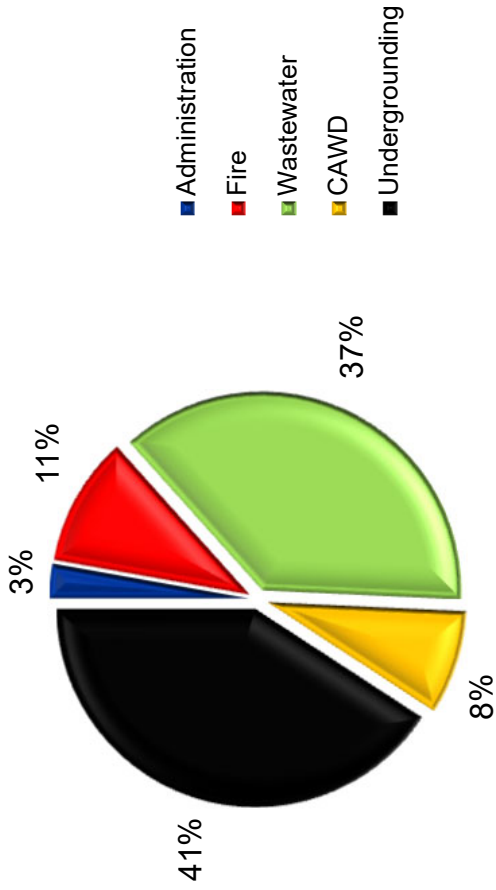
FY 2023/24

LONG-TERM CAPITAL OUTLAY PROGRAM

MARCH 31, 2023

COST SUMMARY BY DEPARTMENT

2023/24 LONG-TERM CAPITAL OUTLAY PROGRAM



15yr SUMMARY

2023/24 LONG-TERM CAPITAL OUTLAY PROGRAM

FISCAL YEAR	Exhibit A Administration	Exhibit B Fire	Exhibit C Wastewater	Exhibit D CAWD	Exhibit E Undergrounding	FISCAL YEAR TOTAL	Exhibit F Recycled Water
2023/24	\$ 190,000	\$ 175,000	\$ 3,740,000	\$ 1,207,000	\$ 2,000,000	\$ 7,312,000	\$ 410,000
2024/25	\$ 400,000	\$ 2,017,000	\$ 3,595,000	\$ 554,000	\$ 2,000,000	\$ 8,566,000	\$ 65,000
2025/26	\$ 100,000	\$ 911,000	\$ 2,307,000	\$ 430,000	\$ 2,000,000	\$ 5,748,000	\$ 415,000
2026/27	\$ 35,000	\$ 237,000	\$ 1,085,000	\$ 420,000	\$ 2,000,000	\$ 3,777,000	\$ 405,000
2027/28	\$ 145,000	\$ 171,000	\$ 1,190,000	\$ 427,000	\$ 2,000,000	\$ 3,933,000	\$ 25,000
2028/29	\$ 60,000	\$ 160,000	\$ 1,365,000	\$ 237,000	\$ 2,000,000	\$ 3,822,000	\$ 255,000
2029/30	\$ 60,000	\$ 271,000	\$ 1,120,000	\$ 403,000	\$ 2,000,000	\$ 3,854,000	\$ 120,000
2030/31	\$ 120,000	\$ 121,000	\$ 1,702,000	\$ 570,000	\$ 2,000,000	\$ 4,513,000	\$ 10,000
2031/32	\$ 165,000	\$ 652,000	\$ 2,280,000	\$ 237,000	\$ 2,000,000	\$ 5,334,000	\$ 200,000
2032/33	\$ 85,000	\$ 667,000	\$ 1,650,000	\$ 237,000	\$ 2,000,000	\$ 4,639,000	\$ 245,000
2033/34	\$ 110,000	\$ 185,000	\$ 1,945,000	\$ 570,000	\$ 2,000,000	\$ 4,810,000	\$ 260,000
2034/35	\$ 125,000	\$ 1,693,000	\$ 1,630,000	\$ 237,000	\$ 2,000,000	\$ 5,685,000	\$ 1,520,000
2035/36	\$ 305,000	\$ 34,000	\$ 1,402,000	\$ 237,000	\$ 2,000,000	\$ 3,978,000	\$ 50,000
2036/37	\$ 100,000	\$ 222,000	\$ 1,205,000	\$ 237,000	\$ 2,000,000	\$ 3,764,000	\$ 5,065,000
2037/38	\$ 60,000	\$ 257,000	\$ 1,260,000	\$ 237,000	\$ 2,000,000	\$ 3,814,000	\$ -
DEPT TOTAL	\$ 2,060,000	\$ 7,773,000	\$ 27,476,000	\$ 6,240,000	\$ 30,000,000	\$ 73,549,000	\$ 9,045,000

2022/23 TOTAL \$ 2,482,000 \$ 8,094,000 \$ 19,621,000 \$ 7,049,000 \$ 30,000,000 \$ 67,246,000 \$ 8,160,000

DIFFERENCE -17.0% -4.0% 40.0% -11.5% 0.0% 9.4% 10.8%

EXHIBIT A
Administration Department Capital Outlay Plan

ITEM NO.	CAPITAL ITEM	USEFUL LIFE	ROLL OVER	FISCAL YEAR COSTS (1,000)																			
				23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38					
1	Admin Office Remodel	One-Time	\$500																				
2	Parking Lot Pavement	15 years	\$100	\$75																			
3	Furnaces (4)	10 years																					
4	Board Room Furniture	12 years																					
5	Board Room Sound System/Microphones (replaced in 2021)	10 years																					
6	Paint Building Exterior (Admin. & Fire)	10 years																					
7	Fire Alarm System Replacement	10 years			\$20															\$20			
8	Carpeting	12 years																			\$50		
9	Training Room Furniture	12 years																					
10	Admin Office Furniture	12 years																				\$15	
11	Replace Building Generator (60kW, Replaced in 2019)	20 years																					\$100
12	Roof Replacement (Admin. & Fire)	30 years		\$300																			
13	GIS/Information Systems Development	Annual		\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35
14	Network Servers (2): File/Email Server Document Management Server	4 years			\$25										\$25								\$25
15	Network Servers (2): InfoSys/GIS Server Backup/Security Server	4 years			\$25					\$25													\$25
16	Workstation/Laptop Computers (12) + Install	4 years			\$55					\$55													\$55
17	Telephone & Voicemail System (Replaced 2021)	10 years																					\$30
18	Network Plotter (Replaced Aug. 2020)	5 years								\$20													\$20
19	Board Room Presentation System	6 years								\$40													\$40
20	Training Room Presentation System	6 years								\$25													\$25
21	Network Combination Copier/Printer/Scanner	6 years								\$25													\$25
22	Traffic Monitoring Radar Units (4) (Replaced in 2021-22)	6 years								\$30													\$30

TOTAL FISCAL YEAR COST (1,000) \$2,060,000

ADMINISTRATION DEPARTMENT TOTAL PLAN COST

EXHIBIT A
Administration Department Capital Outlay Plan

ITEM NO.	CAPITAL ITEM
1	<p><u>Admin Office Remodel</u> Remodel Front Office to add cubicles. Remodel includes the following: New furnaces / ventilation (HEPA) improvements / Replace carpet / Replace window coverings / Replace File Storage SpaceSaver & Office, Training Room, and Board Room Furniture</p>
2	<p><u>Parking Lot Pavement</u> Front office paving every 15 years.</p>
3	<p><u>Furnaces (4)</u> Replace the four furnaces (Front Office/Board Room/Training Room/Back Offices & DMFC/DMFPO) that serve the administration offices every ten years.</p>
4	<p><u>Board Room Furniture</u> Replace the Board Room desks and tables every twelve years.</p>
5	<p><u>Board Room Sound System/Microphones</u> Replace the sound system and microphones in the Board Room every ten years.</p>
6	<p><u>Paint Administration Building Exterior (Admin. & Fire)</u> Paint exterior of administration & fire buildings every ten years.</p>
7	<p><u>Fire Alarm System Replacement</u> The fire alarm system for the District Offices will be replaced every ten years.</p>
8	<p><u>Carpeting</u> Replace the carpeting in the administration offices every twelve years.</p>
9	<p><u>Training Room Furniture</u> Replace the Training Room tables every twelve years.</p>
10	<p><u>Admin Office Furniture</u> Replace the ergonomic workstation furniture in admin offices (staff and management) every twelve years</p>
11	<p><u>Replace Building Generator</u> Replace the 80 KW generator that provides emergency back-up power to the administration building complex every twenty years. The generator is fueled by natural gas and includes a back-up propane system. Last replaced 2019.</p>
12	<p><u>Roof Replacement (Admin. & Fire)</u> Replace the administration and fire building roof every thirty years.</p>
13	<p><u>GIS/Information Systems Development</u> Improve the Geographic Information System (GIS) and InfoSys annually and make any necessary revisions to the data or systems to better serve employees to provide better services to customers.</p>
14	<p><u>Network Servers (2): File/Email Server & Document Management Server</u> Replace the File/Email Server & Document Management Server that serve the administration, fire and maintenance departments, which are planned to be upgraded every four years.</p>

EXHIBIT A
Administration Department Capital Outlay Plan

ITEM NO.	CAPITAL ITEM
15	<p><u>Network Servers (2): InfoSys/GIS Server & Backup/Security Server</u> Replace the InfoSys/GIS Server and the dedicated Backup/Security Server that serve the administration, fire and maintenance departments, which are planned to be upgraded every four years.</p>
16	<p><u>Workstation/Laptop Computers</u> Replace and upgrade administration computer/laptop workstations every four years.</p>
17	<p><u>Telephone & Voicemail System</u> Upgrade/replace telephone and voicemail system every ten years.</p>
18	<p><u>Network Plotter</u> Replace the plotter used print drawings, maps and exhibits larger than 11"x17" paper every five years.</p>
19	<p><u>Board Room Presentation System</u> Replace the Presentation System in the Board Room every six years, including video digital display unit, controllers and presentation console. The presentation console includes a computer and other equipment to connect to the District network.</p>
20	<p><u>Training Room Presentation System</u> Replace the Presentation System in the Training Room every six years, including video digital display unit, controllers and presentation console. The presentation console includes a computer and other equipment to connect to the District network.</p>
21	<p><u>Network Combination Copier/Printer/Scanner</u> Replace the primary network combination color copier/printer/scanner every six years. The replaced unit will serve as backup to the new unit.</p>
22	<p><u>Traffic Monitoring Radar Units (4)</u> Replace four traffic monitoring radar units every six years.</p>

EXHIBIT B
Fire Department Capital Outlay Plan

ITEM NO.	CAPITAL ITEM	USEFUL LIFE	ROLL OVER	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	
FACILITIES																			
1	PPE Dryers**	5 years						\$15					\$15						\$15
2	Kitchen & Living Room Furniture	7 years							\$5							\$5			
3	Media Center and Electronic Components	7 years						\$4							\$4				
4	Dormitory Furniture	7 years							\$8							\$8			
5	Carmel Hill Physical Fitness Equipment**	8 years				\$5								\$5					\$10
6	Physical Fitness Equipment	8 years								\$10									
7	Universal Weight Machine	10 years										\$7							
8	Furnace	10 years												\$15					
9	Carpet (Replaced in 2021)	10 years										\$20							
10	Carmel Hill Carpet**	10 years								\$10									
11	Ergonomic Office Furniture (Replaced 2021)	10 years										\$50							
12	Window Replacement/Coverings	10 years								\$10									
13	Vehicle Exhaust Removal System	10 years					\$30							\$30					
14	Overhead Electric Door/Motors (8) (Replaced 2022)	15 years																	\$75
15	Carmel Hill Pavement Restoration**	20 years	\$600																
16	PPE Lockers	20 years																	\$10
17	Gym Athletic Rubber Flooring	20 years				\$15													
18	Lower-Level Restroom Remodel (2)	20 years										\$20							
19	Kitchen Remodel (done in 2021)	20 years																	\$20
20	Upper-Level Restroom Remodel (done in 2017)	20 years																	
21	Pump St. @ Carmel Hill Fire Station** (Rehabbed 2018-19)	Rehab.																	
22	Instrumentation** (Mission Unit)	5 years		\$5					\$5					\$5					
23	Pump Replacement**	10 years							\$10										
24	Valves & Appurtenances**	15 years												\$5					
25	Control Panel**	15 years												\$10					
26	Force Main**	25 years																	
27	Command Staff Computers (9)**	4 years			\$10					\$10				\$10					\$10
28	Workstation Computers (5)	4 years			\$25					\$25				\$25					\$25
29	ipad Tablets Computers (16)**	3 years			\$20			\$20		\$20				\$20			\$20		\$20
30	AVL Server & Equipment Replacement** (Purchased 2021-2022)	5 years	\$46					\$70						\$70					\$70
31	Network Combination Copier/Printer/Scanner	6 years													\$12				
32	Portable Radios (25)	10 years				\$55													\$55
33	Radio Repeater Equipment	10 years				\$5													\$5
34	Base Radio	10 years								\$6									
35	Carmel Hill Equipment**	Annual		\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10
36	AED Defibrillators (2)	5 years			\$6					\$6						\$6			
37	Battalion Training Program Equipment**	5 years		\$10					\$10					\$10					
38	Thermal Imaging Cameras (5)**	5 years			\$60					\$60					\$60				\$60
39	Paramedic EKG Monitors (4)**	5 years			\$125					\$125					\$125				\$125
40	ALS Manikin** (Purchased in 2021-2022)	5 years				\$40						\$40							\$40
41	Prevention Public Ed Fire Extinguisher Prop	5 years			\$5					\$5						\$5			\$5
COMPUTERS & COMM.																			
EQUIPMENT																			

EXHIBIT B
Fire Department Capital Outlay Plan

**ITEM
NO.**

CAPITAL ITEM

- 1** **PPE Dryers****
Replace dryers needed to dry personal protective equipment every five years.
- 2** **Kitchen & Living Room Furniture**
Replace kitchen table and chairs, and seating furniture for upstairs and downstairs living areas.
- 3** **Media Center and Electronic Components**
Replace televisions, dvd players and storage center in upstairs and downstairs living areas.
- 4** **Dormitory Furniture**
Replace dormitory furniture, including mattresses, beds, and nightstands (12).
- 5** **Carmel Hill Station Physical Fitness Equipment****
Replace physical fitness exercise equipment for the Carmel Hill fire station every eight years at a 50% cost-share with Cypress District.
- 6** **Physical Fitness Equipment**
Replace two commercial-grade treadmill and an elliptical machine in gym every eight years.
- 7** **Universal Weight Machine**
Replace the universal weight machine used in the gym every ten years.
- 8** **Furnace**
Replace the furnace every ten years.
- 9** **Carpet**
Replace the carpeting in the fire department every ten years.
- 10** **Carmel Hill Carpet****
Replace the carpeting in the fire department every ten years. PBCSD at 50% cost share.
- 11** **Ergonomic Office Furniture**
Replace ergonomically designed workstation furniture in the Fire Department offices every ten years.
- 12** **Window Replacement/Coverings**
Replace the windows/coverings in the fire department every twelve years.
- 13** **Vehicle Exhaust Removal System**
Exhaust removal systems are installed in each apparatus bay and are to be replaced every ten years.
- 14** **Overhead Electric Doors/Motors (8)**
Electric Motors/Doors/Tracks will be installed on 8 metal overhead doors on for Fire Department parking bays.
- 15** **Carmel Hill Pavement Restoration****
Capital Improvement Project cost share 50/50 between Cypress & Pebble Restoration of driveway/parking lot asphalt every fifteen years. PBCSD at 50% cost share.
- 16** **PPE Lockers**
Replacement of existing lockers.
- 17** **Gym Athletic Rubber Flooring**
Replace athletic rubber flooring in the Fire Department gym.
- 18** **Lower-Level Restroom Remodel (2)**
Rehabilitate lower-level restrooms (2) located in entrance way and hallway of the Fire Department every 20 years. Includes replacing tile, sink, toilet, mirror, lighting, etc.
Next replacement scheduled for FY 31/32.

EXHIBIT B
Fire Department Capital Outlay Plan

**ITEM
NO.**

CAPITAL ITEM

- 19** **Kitchen Remodel**
Rehabilitate Fire Department Kitchen every twenty years. Includes replacing appliances, cabinetry, countertops, etc.
- 20** **Upper Level Restroom Remodel**
Rehabilitate Fire Department Upper Level Restroom every twenty years. Includes replacing tile, sink, toilet, showers, mirror, lighting, etc
- 21** **Sewer Pump Station @ Carmel Hill Fire Station****
Rehabilitate sewer pump station at Carmel Hill Fire Station.
- 22** **Instrumentation****
Replace Sewer Pump Station Instrumentation every five years.
- 23** **Pump Replacement****
Replace Sewer Pump Station Pumps every ten years.
- 24** **Valves & Appurtenances****
Replace Sewer Pump Station Valves & Appurtenances every fifteen years.
- 25** **Control Panel****
Replace Sewer Pump Station Control Panel every fifteen years.
- 26** **Force-Main****
Replace Sewer Pump Station Force-Main every twenty five years.
- 27** **Command Staff Computers (9)****
Replace nine cost-shared computer used by fire command positions every four years. Each workstation will include a computer, monitor, keyboard and printer.
- 28** **Workstation Computers (5)**
Replace five computer workstations used by the operations and prevention staff every four years. Each workstation will include a computer, monitor, keyboard and printer. 100% PBCSD
- 29** **Mobile Data Computers (16)****
Replace sixteen ipad tablet computers every four years. PBCSD is responsible for 5 at 100%, 1 at 50%, and 10 at 37.5%.
- 30** **AVL Server and Equipment**
Replace server and equipment required for AVL system every 5 years. 6-way cost share (PBCSD Share = 29.15%)
- 31** **Network Combination Copier/Printer/Scanner (ADD AVL Server & Remote)**
Replace the fire department network combination copier/printer/scanner every six years.
- 32** **Portable Radios (25)**
District's current portable radios were purchased as part of a County wide grant. Radios have out lived their operational/useful life.
- 33** **Radio Repeater Equipment**
Replace radio repeater equipment every ten years.
- 34** **Base Radio**
Replace the base radio station located at fire operations offices every ten years.
- 35** **Carmel Hill Station Equipment****
The Carmel Hill Fire Station is operated jointly with Cal Fire and the Cypress Fire Protection District. An annual allocation of \$10,000 per year is included for the PBCSD's share (50%) of replacing capital equipment.
- 36** **AED Defibrillators (2)**
Replace two semi-automatic defibrillators used on first response emergency calls every five years.

EXHIBIT B
Fire Department Capital Outlay Plan

**ITEM
NO.**

CAPITAL ITEM

- 37 Battalion Training Program Equipment****
Replace the cost-shared SCBA Fit Tester, Forcible Entry Prop, and Fire Extinguisher Simulator used in the Battalion Training Program every five years. PBCSD is responsible for 37.5%.
- 38 Thermal Imaging Cameras (5)****
Replace five thermal imaging cameras every five years. The camera can detect dangerous, unseen obstacles and assist in rescue operations during low-visibility conditions. 1 camera is located on the medic engine, 1 on the reserve engine, 1 on the ladder truck, 1 on the reserve ladder truck, and 1 on the Carmel Hill medic engine at 50% cost-share.
- 39 Paramedic EKG Monitors (4)****
Replace four 12-lead monitor EKGs used by paramedics to monitor heart rhythms every five years. 1 monitor will be located on Medic Engine 22, 1 on Medic Truck 22, 1 on the Carmel Hill medic engine at 50% cost-share, and 1 on the paramedic vehicle at 37.5% cost-share.
- 40 Active Shooter PPE**
Replace built proof vests every five years.
- 41 Prevention Public Ed Fire Extinguisher Prop**
Fire extinguisher prop replaced every five years
- 42 Battalion Training Program Flat Bed Trailer****
Replace BTP Flat Bed Trailer every 15 years. PBCSD Cost Share 37.5%
- 43 SCBA Units & Spare Tanks (27)****
Replace twenty Self-Contained Breathing Apparatuses (SCBA) every fifteen years. Units include a pack, an air cylinder rated for 45 minutes of use, a full-face air mask, mic, and related valves and hoses. 5 SCBAs are located in the medic engine, 5 in the reserve engine, 5 in the ladder truck, and 5 in staff vehicles (2 for prevention and 3 at 37.5% cost-share) & purchase twenty-seven spare tanks for Self-Contained Breathing Apparatus units.
- 44 Air Compressor, Rack, and Fill Station (2)****
Replace the air compressor used to fill air bottles, rack to store air bottles, and the fill station every fifteen years. One unit is located at PBCSD and one at Carmel Hill Station at 50% cost-share.
- 45 Water Rescue Program Equipment**
Replace fire department water rescue equipment (paddle boards, wetsuits, life vest) every five years.
- 46 Water Rescue Craft Floating Dock****
Water Rescue Craft Floating Dock installed at Stillwater Pier, to be replaced every five years. PBCSD Cost Share 33.5%
- 47 Water Rescue Craft****
Water Rescue Craft to be replaced every seven years. Cost Share 33%.
- 48 Inflatable Rescue Boat (IRB)****
Motor driven inflatable boat used for ocean rescue, repalced every ten years. Cost Share 33%
- 49 Swift Water Rescue Boat (SWRB)****
Inflatable rescue boat used for swift water rescue, replaced every ten years. Cost Share 33%
- 50 High-Pressure Rescue Airbag Kit (2)****
Replace two airbag kits containing items required to lift heavy objects during rescue operations every ten years, 1 at a 50% cost-share with Cypress District.
- 51 Rope Rescue Gear Ropes****
Rope rescue gear on Truck 22, Medic Engine 22, and Medic Engine 28 (PBCSD Cost Share = 50%), replace every ten years.
- 52 Hydraulic Rescue Tools on Ladder Truck 22**
Replace hydraulic rescue tool set on Ladder Truck 22 used to provide access to damaged vehicles every ten years.

EXHIBIT B
Fire Department Capital Outlay Plan

ITEM
NO.

CAPITAL ITEM

- 53 **Hydraulic Rescue Tools on Medic Engine 22**
Replace hydraulic rescue tool (jaws of life) on Medic Engine 22 used to provide access to damaged vehicles every ten years.
- 54 **Hydraulic Rescue Tools on Medic Engine 28****
Replace hydraulic rescue tool set on Medic Engine 28 used to provide access to damaged vehicles every ten years. Cost Share 50%.
- 55 **Confined Space Rescue Equipment**
Purchase equipment to perform a confined-space emergency rescue. Including tripod, winch, rescue lines, portable ventilation units and rescue baskets used for permit required confined space entry and rescue.
- 56 **Drones**
Drones and equipment to be replaced every ten years. Assume full cost (no cost share) for 21/22, and cost share of 37.5% for future.
- 56 **4WD Command Vehicle 4601****
Replace four-wheel drive utility vehicle 4601 used by the fire division chief, including lights, radio console and command box every eight years at 37.5% cost-share.
- 57 **4WD Command Vehicle B21****
Replace four-wheel drive utility vehicle B21 used by the fire protection and planning chief including lights, radio console and command box every eight years at 37.5% cost-share.
- 58 **4WD Command Vehicle B22****
Replace four-wheel drive utility vehicle B22 used by the fire protection and planning chief including lights, radio console and command box every eight years at 37.5% cost-share.
- 59 **4WD Command Vehicles B25****
Replace four-wheel drive utility vehicle B25 used by the fire protection and planning chief including lights, radio console and command box every eight years at 37.5% cost-share.
- 60 **Paramedic Vehicle B26****
Replace the cost-shared pickup truck used by the EMS Captain, including lights, radio console and command box every eight years. The vehicle is cost-shared with Cypress & Carmel Highlands Fire Protection Districts. PBCSD Cost Share = 37.5%.
- 61 **Fire Protection and Planning Vehicle P24****
Replace utility pickup truck 4624 used by the fire protection and planning captain including lights, radio console and command box every eight years. The cost reported for this vehicle represents PBCSD's 37.5% share.
- 62 **Fire Protection and Planning Vehicle P25****
Replace utility pickup truck 4625 used by the fire protection and planning captain including lights, radio console and command box every eight years. The cost reported for this vehicle represents PBCSD's 37.5% share.
- 63 **Fire Protection and Planning Vehicle P26****
Replace small utility pickup truck 4626 used by the fire protection and planning captain including lights, radio console and command box every eight years. The cost reported for this vehicle represents PBCSD's 37.5% share.
- 64 **Fire Protection and Planning Vehicle P27****
Replace small utility pickup truck 4627 used by the fire protection and planning captain including lights, radio console and command box every eight years. The cost reported for this vehicle represents PBCSD's 37.5% share.
- 65 **Fire Protection and Planning Vehicle P28****
Replace small utility pickup truck 4628 used by the fire protection and planning captain including lights, radio console and command box every eight years. The cost reported for this vehicle represents PBCSD's 37.5% share.
- 66 **Battalion Training Officer Vehicle T51****
Replace utility pickup truck used by training officer, which has an expected useful life of eight years. The cost reported for this vehicle represents PBCSD's 37.5% share.

EXHIBIT B
Fire Department Capital Outlay Plan

ITEM
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CAPITAL ITEM

- 67 Station Utility Truck U22**
Replace the cost-shared utility pickup truck with ladder rack for use at the Carmel Hill station every ten years at 50%. Replaced in 2021.
- 68 Polaris All-Terrain Vehicle**
All-Terrain Vehicle to be replaced every ten years. Cost Share 37.5%.
- 70 Polaris All-Terrain Vehicle
All-Terrain Vehicle to be replaced every ten years. No cost share. To be owned 100% by PBCSD.
- 71 Ladder Truck 22
Replace the quint 70-foot ladder Truck engine 22 with a pumping capacity of 1500 gpm every ten years. Quint refers to the five components of the vehicle including pump, water tank, fire hose, aerial device and ground ladders.
- 72 Medic Engine 28** (Carmel Hill)
Replace the Carmel Hill Station medic engine with a pumping capacity of 1500 gpm every ten years at 50% cost-share.
- 73 Medic Engine 22
Replace the first-line medic engine with a pumping capacity of 1500 gpm every fifteen years. The replaced medic engine will be reassigned as the reserve engine 22, and the replaced reserve engine will become surplus equipment. The expected useful life is twenty years with approximately fifteen years as a first-line engine, and the remaining years as the reserve engine.
- 74 Wildland Patrol Vehicle 22
Replace the Type IV wildland engine 22 every fifteen years. This vehicle is used for patrolling open space areas daily during peak fire conditions and for initial response to incidents in open spaces. It includes a 300-gallon water storage tank and 190 gpm pump.

**Items are cost-shared with other fire districts

**EXHIBIT C
Wastewater Department Capital Outlay Plan**

ITEM NO.	CAPITAL ITEM	USEFUL LIFE	ROLL OVER	FISCAL YEAR COSTS (1,000)														
				23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38
82	Pump Station P-8 (SPANISH BAY) <small>Est. 2007</small>	Rehab.																
83	Instrumentation	5 years			\$10													
84	Remote SCADA Hardware and Software	10 years																
85	Wet Well Mixer <small>(Installed 2019)</small>	10 years				\$10												
86	Pump Replacement <small>(Ship_480v)</small>	10 years																
87	Valves & Appurtenances	15 years					\$15											
88	Control Panel <small>(Replaced 2021)</small>	15 years																
89	Force Main	25 years																
90	PB-1 Light Utility Truck (General) (2023)	10 years	\$50															
91	PB-2 Line Cleaning/Vacuum Truck (2021)	10 years																
92	PB-4 Heavy Utility Truck (PS Crew) (2019)	10 years																
93	PB-5 Light Utility Truck (General) (2016)	10 years																
94	PB-8 Line Cleaning Truck (2013)	10 years																
95	Sewer Line Cleaning Light Utility Vehicle (UTV)	10 years	\$25															
96	PB-6 Dump Truck (2023)	15 years	\$100															
97	Trailer Mounted Sewer Rodder	15 years																
98	10" Portable Pump (1999)	15 years																
99	6" Portable Pump (2009)	15 years																
100	G1 Portable Generator (2004_60kW_120/240v)	15 years																
101	G2 Portable Generator (2006_60kW_120/240v)	15 years																
102	G3 Portable Generator (2001_60kW_240/480v) (Rebuilt '20)	15 years																
103	G4 Portable Generator (2004_60kW_120/240v)	15 years																
104	PB-3 CCTV Camera Van (2006)	20 years	\$50															
105	PB-7 Crane Truck (1994)	20 years																
106	Backhoe Loader (1999)	20 years																
107	Easement Line Cleaning Equipment	20 years																
TOTAL FISCAL YEAR COST (1,000)				\$3,740	\$3,595	\$2,307	\$1,085	\$1,190	\$1,365	\$1,120	\$1,702	\$2,280	\$1,650	\$1,945	\$1,630	\$1,402	\$1,205	\$1,260

WASTEWATER DEPARTMENT TOTAL PLAN COST \$27,476,000

EXHIBIT C
Wastewater Department Capital Outlay Plan

ITEM NO. CAPITAL ITEM

- 1 **Fueling Station Rehabilitation**
The fuel pump and monitoring and security system for the diesel and gasoline fueling station will be rehabilitated.
- 2 **Overhead Electric Door Motors (8)**
Replace eight electric motors on metal overhead doors for Maintenance Building bays.
- 3 **Paint Exterior Buildings (2)**
Paint exterior of maintenance shop and maintenance vehicle garage buildings every ten years.
- 4 **Roof Replacement (Maintenance Buildings)**
Replace the roof on the maintenance shop and maintenance vehicle garage every thirty years.
- 5 **SCADA System Rehabilitation****
Supervisory Control And Data Acquisition (SCADA) System shall be rehabilitated in FY2018/19 and FY2019/20.
- 6 **SCADA System Servers (3)****
Replace three servers for the SCADA system every five years, servers facilitates communication amongst Wastewater and Reclamation facilities.
- 7 **SCADA System Software****
Update SCADA System software every five years.
- 8 **Work Station Computers (4)**
Replace four maintenance computer workstations and two black and white laser printers every five years.
- 9 **Underground Pipe Locator**
Improved technology will increase the speed and accuracy of locating underground pipes for Underground Service Alert (USA) work requests.
- 10 **Confined Space Safety Equipment**
Replace the confined space safety equipment, including tripod, winch, rescue lines, portable ventilation units, rescue baskets and air bottles used for permit required confined space entry and rescue operations every five years.
- 11 **Portable CCTV Equipment**
Replace portable cctv equipment every ten years.
- 12 **Portable Sewer Rodder**
Replace portable sewer rodder every ten years.
- 13 **Portable Lighting Tower**
Replace the portable lighting tower used for emergency night time repairs every ten years.
- 14 **Sewer and Manhole Replacement Projects (CCTV)**
The maintenance department inspects manholes and wastewater lines to identify problem areas. Each year the wastewater lines and manholes that require replacement or rehabilitation are identified and prioritized by condition. The annual sewer replacement project is designed to address the highest priority areas until the budget limit is reached. The allocation of \$1,000,000 allows the replacement of approximately one mile of sewer main lines in the wastewater collection system.
- 15 **Sewer and Manhole CCTV Projects**
Conduct CCTV assessment of gravity sewer mains, interceptor line, and manholes throughout District.
- 16 **Carmel Gate Metering Station**
Rehabilitate Carmel Gate flume metering station that meters all wastewater flow to CAWD treatment plant.
- 17 **Pump Station P-1 (CYPRESS GROVE) Est. 1969**
Rehabilitate Sewer Pump Station P-1. Rehab scheduled for 2023.

**EXHIBIT C
Wastewater Department Capital Outlay Plan**

ITEM NO.	CAPITAL ITEM
18	<u>Instrumentation</u> Replace Sewer Pump Station Instrumentation every five years.
19	<u>Remote SCADA Hardware and Software</u> Replace SCADA system Hardware for pump station every ten years.
20	<u>Pump Replacement</u> Replace Sewer Pump Station Pumps every ten years.
21	<u>Valves & Appurtanances</u> Replace Sewer Pump Station Valves & Appurtanances every fifteen years.
22	<u>Control Panel</u> Replace Sewer Pump Station Control Panel every fifteen years.
23	<u>Force Main</u> Replace Sewer Pump Station Force-Main every twenty-five years.
24	<u>Pump Station P-2 (FANSHELL BEACH) Est. 1969</u> Rehabilitate Sewer Pump Station P-2. Rehab scheduled for 2023.
25	<u>Instrumentation</u> Replace Sewer Pump Station Instrumentation every five years.
26	<u>Remote SCADA Hardware and Software</u> Replace SCADA system Hardware for pump station every ten years.
27	<u>Pump Replacement</u> Replace Sewer Pump Station Pumps every ten years.
28	<u>Valves & Appurtanances</u> Replace Sewer Pump Station Valves & Appurtanances every fifteen years.
29	<u>Control Panel</u> Replace Sewer Pump Station Control Panel every fifteen years.
30	<u>Force Main</u> Replace Sewer Pump Station Force-Main every twenty-five years.
31	<u>Pump Station P-3 (SEAL ROCK) Est. 1990</u> Rehabilitate Sewer Pump Station P-3.
32	<u>Instrumentation</u> Replace Sewer Pump Station Instrumentation every five years.
33	<u>Remote SCADA Hardware and Software</u> Replace SCADA system Hardware for pump station every ten years.
34	<u>Flow Meter</u> Replace Flow Meter every ten years.
35	<u>Wet Well Mixer (2)</u> Replace two Wet Well Mixers every ten years.

EXHIBIT C
Wastewater Department Capital Outlay Plan

ITEM NO.	CAPITAL ITEM
36	<u>Sump Pump Replacement</u> Replace duplex sump pumps every 10 years.
37	<u>Air Scrubber</u> Air scrubber at P-3 to be replaced every ten years.
38	<u>Pump Replacement (140hp)</u> Replace Sewer Pump Station Pumps every fifteen years.
39	<u>Solids Grinder (A)</u> Replace Solids Grinder every fifteen years, Grinder (A) scheduled for replacement in FY22/23.
40	<u>Solids Grinder (B)</u> Replace Solids Grinder every fifteen years, Grinder (B) scheduled for replacement in FY32/33.
41	<u>Valves & Appurtanances</u> Replace Sewer Pump Station Valves & Appurtanances every fifteen years.
42	<u>Surge Tank</u> Surge tank replacement to occur every fifteen years.
43	<u>Control Panel</u> Replace Sewer Pump Station Control Panel every fifteen years.
44	<u>Emergency Power Generator</u> Replace Emergency Power Generator every fifteen years.
45	<u>Underground Diesel Storage Tank - TIUGA Conversion</u> Replace Underground Diesel Storage Tank every twenty-five years.
46	<u>Force Main</u> Replace Sewer Pump Station Force-Main every twenty-five years.
47	<u>Pump Station P-4 (HWY 68) Est. 1969</u> Rehabilitate Sewer Pump Station P-4.
48	<u>Instrumentation</u> Replace Sewer Pump Station Instrumentation every five years.
49	<u>Remote SCADA Hardware and Software</u> Replace SCADA system Hardware for pump station every ten years.
50	<u>Pump Replacement</u> Replace Sewer Pump Station Pumps every ten years.
51	<u>Valves & Appurtanances</u> Replace Sewer Pump Station Valves & Appurtanances every fifteen years.
52	<u>Control Panel</u> Replace Sewer Pump Station Control Panel every fifteen years.
53	<u>Force Main</u> Replace Sewer Pump Station Force-Main every twenty-five years.

EXHIBIT C
Wastewater Department Capital Outlay Plan

ITEM NO.	CAPITAL ITEM
54	<u>Pump Station P-5 (SUNSET LN.) Est. 1969</u> Rehabilitate Sewer Pump Station P-5.
55	<u>Instrumentation</u> Replace Sewer Pump Station Instrumentation every five years.
56	<u>Remote SCADA Hardware and Software</u> Replace SCADA system Hardware for pump station every ten years.
57	<u>Flow Meter</u> Replace Flow Meter every ten years.
58	<u>Pump Replacement</u> Replace Sewer Pump Station Pumps every ten years.
59	<u>Valves & Appurtanances</u> Replace Sewer Pump Station Valves & Appurtanances every fifteen years.
60	<u>Control Panel</u> Replace Sewer Pump Station Control Panel every fifteen years.
61	<u>Emergency Power Generator</u> Replace Emergency Power Generator every fifteen years.
62	<u>Underground Diesel Storage Tank</u> Replace Underground Diesel Storage Tank every twenty-five years.
63	<u>Force Main</u> Replace Sewer Pump Station Force-Main every twenty-five years.
64	<u>Pump Station P-6 (PESCADERO PT.) Est. 1969, rehab. in 2015</u> Rehabilitate Sewer Pump Station P-6.
65	<u>Instrumentation</u> Replace Sewer Pump Station Instrumentation every five years.
66	<u>Remote SCADA Hardware and Software</u> Replace SCADA system Hardware for pump station every ten years.
67	<u>Pump Replacement</u> Replace Sewer Pump Station Pumps every five years.
68	<u>Valves & Appurtanances</u> Replace Sewer Pump Station Valves & Appurtanances every fifteen years.
69	<u>Control Panel</u> Replace Sewer Pump Station Control Panel every fifteen years.
70	<u>Force Main</u> Replace Sewer Pump Station Force-Main every twenty-five years.
71	<u>Pump Station P-7 (PBG L 18th) Est. 2012</u> Rehabilitate Sewer Pump Station P-7.

**EXHIBIT C
Wastewater Department Capital Outlay Plan**

ITEM NO.	CAPITAL ITEM
72	<u>Instrumentation</u> Replace Sewer Pump Station Instrumentation every five years.
73	<u>Remote SCADA Hardware and Software</u> Replace SCADA system Hardware for pump station every ten years.
74	<u>Flow Meter</u> Replace Flow Meter every ten years.
75	<u>Wet Well Mixer</u> Replace one Wet Well Mixers every ten years.
76	<u>Pump Replacement</u> Replace Sewer Pump Station Pumps every ten years.
77	<u>Valves & Appurtanances</u> Replace Sewer Pump Station Valves & Appurtanances every fifteen years.
78	<u>Control Panel</u> Replace Sewer Pump Station Control Panel every fifteen years.
79	<u>Emergency Power Generator</u> Replace Emergency Power Generator every fifteen years.
80	<u>Underground Diesel Storage Tank - TIUGA Conversion</u> Replace Underground Diesel Storage Tank every twenty-five years.
81	<u>Force Main</u> Replace Sewer Pump Station Force-Main every twenty-five years.
82	<u>Pump Station P-8 (SPANISH BAY) Est. 2007</u> Rehabilitate Sewer Pump Station P-8.
83	<u>Instrumentation</u> Replace Sewer Pump Station Instrumentation every five years.
84	<u>Remote SCADA Hardware and Software</u> Replace SCADA system Hardware for pump station every ten years.
85	<u>Wet Well Mixer</u> Replace one Wet Well Mixers every ten years.
86	<u>Pump Replacement</u> Replace Sewer Pump Station Pumps every ten years.
87	<u>Valves & Appurtanances</u> Replace Sewer Pump Station Valves & Appurtanances every fifteen years.
88	<u>Control Panel</u> Replace Sewer Pump Station Control Panel every fifteen years.
89	<u>Force Main</u> Replace Sewer Pump Station Force-Main every twenty-five years.

EXHIBIT C
Wastewater Department Capital Outlay Plan

ITEM NO.	CAPITAL ITEM
90	<p><u>PB-1 Light Utility Truck (General)</u> The PB-1 utility truck will be replaced. This vehicle is a half-ton four-wheel drive pickup truck with an estimated useful life of ten years.</p>
91	<p><u>PB-2 Line Cleaning/Vacuum Truck</u> Reserve Vac-Con Line/Vacuum truck is used to remove blockages, roots, and debris from the collection system using a water jetting system every ten years. It contains a water storage tank, a water pump, vacuum fan, debris storage tank and 800 feet of hose.</p>
92	<p><u>PB-4 Heavy Utility Truck (Pump Station Crew)</u> This is a one-ton 4WD utility truck used primarily for pump station maintenance. The truck has an expected useful life of ten years.</p>
93	<p><u>PB-5 Utility Truck (General)</u> This is a heavy-duty 4WD utility truck primarily used by the field operations manager every ten years.</p>
94	<p><u>PB-8 Line Cleaning Truck</u> Front-line equipment used on a daily basis to perform line cleaning activities to be replaced every ten years</p>
95	<p><u>Sewer Line Cleaning Utility Vehicle (UTV)</u> Small utility vehicle with trailer jetter to be used for line cleaning when large line cleaning vehicles cannot access cleaning locations.</p>
96	<p><u>PB-6 Dump Truck</u> This vehicle transports bulk material and allows the crew to perform more field construction work.</p>
97	<p><u>Trailer Mounted Sewer Rodder</u> Replace the trailer-mounted continuous power rodder that is used to clear stoppages and perform routine root removal maintenance on wastewater lines and also provides a redundant capacity to clear sewer main lines if the line cleaning truck is out of service.</p>
98	<p><u>10" Portable Pump</u> Replace the 10-inch, 3000-gpm portable wastewater pump, which allows the maintenance crew to bypass problem areas that require repair every fifteen years. The 10-inch diameter pump is sized to handle the expected wet weather flow for the 27-inch diameter interceptor line and to bypass pump station P3. This replacement will include a noise-reduction enclosure.</p>
99	<p><u>6" Portable Pump</u> A trailer mounted 6-inch pump with sound-reducing enclosure capable of transporting wastewater will be purchased for smaller pump station bypass operations.</p>
100	<p><u>G1 Portable Generator</u> Replace 60KW portable generator mounted on trailers with noise reduction enclosures every fifteen years to (used to serve Pump Station P-1)</p>
101	<p><u>G2 Portable Generator</u> Replace 60KW portable generator mounted on trailers with noise reduction enclosures every fifteen years to (used to serve Pump Station P-2)</p>
102	<p><u>G3 Portable Generator</u> Replace 60KW portable generator mounted on trailers with noise reduction enclosures every fifteen years to (used to serve Pump Station P-6)</p>
103	<p><u>G4 Portable Generator</u> Replace 60KW portable generator mounted on trailers with noise reduction enclosures every fifteen years to (used to serve Pump Station P-4)</p>
104	<p><u>PB-3 CCTV Camera Truck</u> Closed Circuit Television (CCTV) equipment on PB-3 is past its service life and in need of replacement. All hardware, software, camera, and camera support equipment is scheduled for replacement in FY2018/19, the truck chassis is in good working condition and will not need to be replaced in FY2018/19</p>
105	<p><u>PB-7 Crane Truck</u> Flatbed truck and crane has a lifting capacity of 10,000 lbs.</p>

EXHIBIT C
Wastewater Department Capital Outlay Plan

ITEM NO.	CAPITAL ITEM
106	<u>Backhoe Loader</u>
	This piece of equipment allows the maintenance crew to perform more field construction work and can be modified to act as a forklift.
107	<u>Easement Line Cleaning Equipment</u>
	This equipment extends the range of the line cleaning truck so that sewer lines located in areas with no vehicle accessibility can be reached without manually pulling hose.

**Items are cost-shared with Recycled Water

**EXHIBIT D
Carmel Area Wastewater District Capital Outlay Plan**

ITEM NO.	CAPITAL ITEM	ROLL OVER	FISCAL YEAR COSTS (1,000)															
			23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	
1	Phase II Design (2.7% Reclamation)																	
1	Phase II Construction (2.7% Reclamation)		\$678															
1	Phase II SCADA Programming		\$33															
1	Phase II Construction Management and ESDC (2.7% Reclamation)		\$65															
1	Phase II O&M Manual (2.7% Reclamation)		\$16															
2	Carmel River FREE Mitigation Project (Funded by Grants/County, See Below)																	
3	Main Potable Water and Gas Main Replacement(5.5% Collections)		\$95	\$299														
4	Perimeter Fencing		\$92															
5	Fish Passage on CAWD Sewer Crossing on the Carmel River		\$10															
6	Vector Truck Unloading Station (100% Collections)		\$0															
7	Artificial Intelligence Pilot Projec		\$25															
8	Plant Paving and Vault Lids		\$133															
9	Plant Landscaping			\$50														
10	Outfall Cathodic Protection Anode Bed and Rectifier Replacemen			\$20	\$50													
11	WWTP Perimeter Tree Planting			\$25	\$17													
12	Plant Bridge Retrofit Project			\$50	\$50	\$67	\$267											
13	Digester No. 1 - Rehabilitation			\$50	\$253													
14	Replace Older Turblex Blower					\$177												
15	Influent Pump Station Wet Well Repairs					\$100												
16	Office Trailer Replacements					\$17	\$100											
17	Lagoon Crossing Rehabilitation						\$167											
18	Ocean Outfall Rehabilitation							\$333										
19	Next Generation PLC/SCADA Upgrades Phase 1								\$333									
20	Septage Waste Receiving Station																	
21	Sea Level Rise Flood Mitigation																	
22	Misc. Yard Piping Rehab and Maintenance Project						\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30
23	Influent/Headworks/Primary Rehab and Maintenance Project						\$33	\$33	\$33	\$33	\$33	\$33	\$33	\$33	\$33	\$33	\$33	\$33
24	EQ/Blowers/Aeration/Secondary Rehab and Maintenance Projects (Partial Reclamation						\$57	\$57	\$57	\$57	\$57	\$57	\$57	\$57	\$57	\$57	\$57	\$57
25	Chlorination/Dechlorination/Effluent Rehab and Maintenance Projects (Partial Reclamatio						\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28
26	DAFT/Digestion/Dewatering Rehab and Maintenance Projects (Partial Reclamation						\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28	\$28

WWTP - PH. II

PLANNED PROJECTS

PROCESS AREA REHAB

**EXHIBIT D
Carmel Area Wastewater District Capital Outlay Plan**

ITEM NO.	CAPITAL ITEM	ROLL OVER	FISCAL YEAR COSTS (1,000)														
			23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38
27	CAWD Maintenance Plant - CIP		\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40
28	CAWD Treatment Plant - Equipment		\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10
29	CAWD Treatment Plant - CIP		\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10
TOTAL FISCAL YEAR COST (1,000)			\$1,207	\$554	\$430	\$420	\$427	\$237	\$403	\$237	\$237	\$570	\$237	\$570	\$237	\$237	\$237
CAWD TOTAL PLAN COST			\$6,240,000														

EXHIBIT E
Undergrounding Overhead Utility Projects
Capital Outlay Plan

ITEM NO.	CAPITAL ITEM	USEFUL LIFE	ROLL OVER	FISCAL YEAR COSTS (1,000)																
				23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38		
1	Undergrounding Overhead Utility Projects	Annual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	
TOTAL FISCAL YEAR COST (1,000)				\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000

UNDERGROUNDING OVERHEAD UTILITY PROJECTS TOTAL PLAN COST \$30,000,000

EXHIBIT F
Recycled Water Distribution System Capital Outlay Plan

ITEM NO.	CAPITAL ITEM
1	<u>SCADA System Servers**</u> <small>(Replaced in 2020)</small> Cost Share replacement of SCADA servers every five years, servers facilitates communication amongst reclamation facilities.
2	<u>SCADA System Software**</u> <small>(Upgraded in 2020)</small> Cost Share Update SCADA System software every five years.
3	<u>SCADA System Remote Hardware**</u> <small>(Replaced in 2020)</small> Update SCADA System hardware every ten years.
4	<u>Flow Meter Remote Measuring Systems (13)</u> Replace the irrigation meters and remote sensors on vault lids to allow recycled water meter readings to be electronically recorded without lifting the meter vault doors.
5	<u>Pipeline Cathodic Protection in Carmel</u> The recycled water transmission main throughout the City of Carmel is not protected against corrosion. A cathodic protection system is scheduled be designed and installed in FY2018/19 to reduce the potential for corrosion and extend the useful life of the pipeline
6	<u>Cathodic Protection System - PBGL Maint. Yard</u> The recycled water transmission main from the Carmel gate passed the Pebble Beach Golf Links Maintenance Yard is protected against corrosion. The existing cathodic protection system should be rehabilitated in FY 2024/25 reduce the potential for corrosion and extend the useful life of the pipeline
7	<u>Cathodic Protection System - Whitman Ln</u> The recycled water transmission main from the Pebble Beach Golf Links Maintenance Yard passed Whitman Lane is protected against corrosion. The existing cathodic protection system should be rehabilitated in FY 2024/25 reduce the potential for corrosion and extend the useful life of the pipeline
8	<u>Cathodic Protection System - Forest Lake Rd</u> The recycled water transmission main from Whitman Lane to Forest Lake Road is protected against corrosion. The existing cathodic protection system should be rehabilitated in FY 2024/25 reduce the potential for corrosion and extend the useful life of the pipeline
9	<u>Cathodic Protection System - Forest Lake Reservoir</u> The recycled water transmission main from Forest Lake Road to Sloat Road is protected against corrosion. The existing cathodic protection system should be rehabilitated in FY 2032/33 reduce the potential for corrosion and extend the useful life of the pipeline
10	<u>Pipeline Replacement</u> Replacement of the cement mortar lined distribution main (approximately 7 miles of pipeline from CAWD to near Spanish Bay) every 50 years.
11	<u>Viscaino Generator</u> <small>(250KW)</small> Replace 250KW electrical generator at the Viscaino potable water pump station.
12	<u>Viscaino Pumps & Motor Starters (2)</u> Replace the two potable water pumps and motor starters at the Viscaino pump station that supplies potable water to the 2.5 million-gallon storage tank.
13	<u>Viscaino Pump Controls</u> Replace the control system for the pumps at the Viscaino Pump Station
14	<u>Storage Tank Rehabilitation</u> <small>(Rehab. in 2020)</small> Rehabilitation of the 2.5 million-gallon recycled water storage tank including structural repairs, cathodic protection replacement, interior and exterior coating.
15	<u>Poppy Tank Mission Control</u> Mission unit at Poppy Hills Storage Tank to be replaced every ten years.
16	<u>Poppy Hills Generator with ATS</u> Poppy Hills Generator to be replaced every fifteen years with new automatic transfer switch.
17	<u>Air Diffuser Membrane Replacement</u> Replace a total of (60) flexible membrane tube diffusers located at the bottom of the Forest Lake Reservoir, used for aeration / vertical mixing.
18	<u>Forest Lake Strainer Replacement</u> Three strainers that remove algae material prior to distribution will be replaced.
19	<u>Forest Lake Acid Injection Equipment</u> Acid injection equipment at Forest Lake Treatment Plant to be replaced every ten years.
20	<u>Forest Lake Chlorine Injection Equipment (2021)</u> Chlorine injection equipment at Forest Lake Treatment Plant to be replaced every ten years.
21	<u>Forest Lake Chemical Bldg. Instru.</u> <small>(Replaced in 2019)</small> The chlorine analyzer and pH meter for the Forest Lake facilities will be replaced every ten years.
22	<u>Forest Lake Feed Pumps (4)</u>

EXHIBIT F
Recycled Water Distribution System Capital Outlay Plan

ITEM NO.	CAPITAL ITEM
	Three feed pumps (one on VFD) and one spare pump that transport recycled water to the distribution system will be replaced every ten years.
23	<u>Forest Lake Feed Pump Motor Controllers (4)</u> Motor Controllers for Forest Lake Feed pumps to be replaced every ten years.
24	<u>Forest Lake Mixers (2)</u> Replace two horizontal mixers in Forest Lake every ten years.
25	<u>Forest Lake Multi-Probe</u> <small>(Replaced in 2019)</small> Replace multi-probe which measures, pH, BO, temperature, and chloroform at Forest Lake Reservoir every ten years.
26	<u>Forest Lake Inlet Flow Meter</u> <small>(Replaced in 2019)</small> Replace inlet flow meter used to measure quantity of recycled water entering Forest Lake every ten years.
27	<u>Forest Lake Outlet Structure Level System</u> Replace ultrasonic level indicator and high/low level sensors at Forest Lake Reservoir every ten years.
28	<u>Forest Lake Backwash Pumps (2)</u> Replace backwash basin pumps that return water from chemical building drain lines and strainer backwash to reservoir every ten years.
29	<u>Forest Lake Blowers (2)</u> Replace two blowers at Forest Lake Chemical Building that supply air and vertical mixing at Forest Lake every fifteen years.
30	<u>Forest Lake Generator (15KW)</u> Replace 15KW electrical generator used at Forest Lake Reservoir.
31	<u>Acid Tank Replacement</u> <small>(Replaced 2019)</small> Replace acid storage tank within the Forest Lake Chemical Storage Building every fifteen years
32	<u>Forest Lake Outlet Gate Electric Operators</u> Electric operators for Forest Lake Outlet Gates to be replaced at fifteen year intervals.
33	<u>Pontoon Work (Crane) Boat</u> Replace Pontoon work boat allows safe heavy lifting for servicing and repair of equipment (underwater mixers and underwater slide gates) located out in the Forest Lake Reservoir, replace every twenty years.
34	<u>3-Way Valve Box - Electronic Operator</u> Replace four electric gate operators on outlet structure every fifteen years
35	<u>Forest Lake Outlet Gates</u> Replace sluice gates and operators located at the outlet structure every twenty years.
36	<u>Forest Lake Air System Stainless Steel Piping</u> Replace the stainless steel air piping located at the bottom of Forest Lake every twenty years.
37	<u>Forest Lake Hypalon Liner</u> Replace the Hypalon Liner for Forest Lake every twenty years.
38	<u>Well Pumps</u> Well pumps for the three alternative source water project wells to be replaced every ten years.

**Items are cost-shared with Wastewater Department