PINOLE/HERCULES
WASTEWATER SUBCOMMITTEE

MAY 25, 2023
AT 8:30 A.M.

Attend in Person: PINOLE CITY COUNCIL CHAMBERS - 2131 PEAR STREET

SUBMIT PUBLIC COMMENTS TO PUBLIC WORKS DIRECTOR / CITY ENGINEER BEFORE OR DURING THE MEETING VIA EMAIL: smishra@ci.pinole.ca.us

Comments received before the close of the public comment period for that item will be read into the record and limited to 3 minutes. Please include your full name, city of residence and agenda item you are commenting on. Any comments received after the close of the public comment period will be distributed to Committee Members and relevant Staff after the meeting and filed with the agenda packet.

AGENDA

1. **CALL TO ORDER AND PLEDGE OF ALLEGIANCE**

2. **ROLL CALL**

3. **APPROVAL OF MINUTES OF THE JUNE 2, 2022 MEETING**

4. **CITIZENS TO BE HEARD - FOR ITEMS NOT ON THE AGENDA**

5. **WATER POLLUTION CONTROL PLANT (WPCP) OPERATIONS REPORT**

6. **FISCAL YEAR (FY) 2023-24 BUDGET**

    i. **WPCP OPERATING BUDGET**
    ii. **WPCP CAPITAL BUDGET**

7. **NEW CONNECTIONS**
    i. **PINOLE (VERBAL)**
    ii. **HERCULES (VERBAL)**

8. **ADJOURN TO THE REGULAR SUBCOMMITTEE MEETING OF SEPTEMBER 7, 2023**

WASTEWATER SUBCOMMITTEE MEETING MINUTES

June 2, 2022

1. CALL TO ORDER & PLEDGE OF ALLEGIANCE IN HONOR OF THE US MILITARY TROOPS

The Subcommittee Meeting was held via a Zoom videoconference and broadcast from the Pinole Council Chambers, 2131 Pear Street, Pinole, California. Council Member Anthony Tave Chaired the meeting and called the Subcommittee Meeting to order at 8:36 AM and led the Pledge of Allegiance.

2. ROLL CALL & STATEMENT OF CONFLICT

A. COUNCILMEMBERS PRESENT

Anthony Tave, Council Member – City of Pinole
Maureen Toms, Council Member – City of Pinole

Dan Romero, Council Member- City of Hercules

COUNCILMEMBERS ABSENT

Tiffany Grimsley, Council Member- City of Hercules

B. STAFF PRESENT

City of Pinole	City of Hercules
Andrew Murray, City Manager	Dante Hall, City Manager
Sanjay Mishra, Public Works Director	Mike Roberts, Public Works Director
Josh Binder, Plant Manager	

No Subcommittee members reported any conflicts.

3 APPROVAL OF MINUTES OF THE MARCH 3, 2022 MEETING

Council Member Romero made a motion to approve.

Council Member Toms seconded the motion to approve.

The Subcommittee unanimously approved the minutes.

4. CITIZENS TO BE HEARD (Public Comments)

PUBLIC COMMENTS OPENED for Item #3
No public comments were made.
PUBLIC COMMENTS CLOSED for Item #3

5. WATER POLLUTION CONTROL PLANT (WPCP) OPERATIONS REPORT

Plant Manger Binder presented the Operation's Report for the period of January to March of 2022, which covered monthly flow data, monthly performance indicators, and project updates.

Council Member Toms asked to clarify the coliform number for the month of January.

City Manager Murray and Plant Manager Binder clarified that the coliform result for January was 50.

City Manager Murray requested an asterisk be used to note that coliform analysis is performed once per quarter.

Council Member Romero requested a legend defining the various water quality analyses included in the Key Performance Indicators to help the public better understand what is being presented.

Council Member Romero asked if the recent WWTP upgrade project had yielded better results of the Key Performance Indicators.

Plant Manager Binder said he would get back to Council Member Romero after doing some historical research.

Plant Manager Binder provided project updates.

Council Member Romero asked whether a women's locker room existed prior to this project and if not, he would like it to be considered a capital improvement project.

Council Member Romero asked that staff seek a warranty credit from the contractor for the required repairs made to the plant water system.

Council Member Romero stated that the council members were told that the treatment plant was supposed use less chemicals after the treatment plant upgrade and would like more information on whether that is the case or not.

6. FISCAL YEAR (FY) 2022-23 BUDGET

Director Mishra presented the budget for Fiscal Year 2022/23.

Council Member Romero asked multiple questions regarding budget items relating to training, a centrifuge feed pump, energy recovery building roof, miscellaneous plant improvements, and effluent outfall project design. He would like more information about the miscellaneous plant improvements and the effluent outfall project design.

Director Mishra responded to Council Member Romero's question regarding training in that the required driver training was related to work for the treatment plant and not for other City of Pinole services.

Plant Manager Binder responded to Council Member Romero's questions regarding the centrifuge feed pump in that it was not included in the last upgrade project, the energy recovery building roof was constructed in the 1980's, the list of miscellaneous plant improvements will be shared, and the effluent outfall project was related to increasing the pipe size to reduce operating pressure and increase capacity.

Director Mishra presented the capital improvement section of the budget.

Council Member Toms requested the layout for this section to have an asterisk or other indicator to reflect a shared cost between Pinole and Hercules.

7. NEW CONNECTIONS

No New connections were reported by Pinole or Hercules.

PUBLIC COMMENTS OPENED
No Public comments
PUBLIC COMMENTS CLOSED

8. ADJOURNMENT to the next meeting on September 1, 2022.

At 9:25AM Chair Anthony Tave adjourned the meeting to the Wastewater Subcommittee Meeting on September 1, 2022.

Approved by Wastewater Subcommittee Meeting: September 1, 2022

PINOLE-HERCULES WASTEWATER SUBCOMMITTEE

OPERATIONS REPORT

May 25, 2023

Josh Binder, Plant Manager

Topics will include:

1. Monthly Flow Data
2. Monthly Performance Indicators
3. Project Updates
4. Recent Activity
5. Chemical Usage Analysis

Monthly Flow Data

Hercules right to use: 2.27 MGD*

Pinole right to use: 1.79 MGD*

* Average Dry Weather Flow

HERCULES Flow – January 2023		Gallons
Minimum	0.58	580,000
Average (MGD)	2.31	2,305,000
Maximum	5.03	5,030,000
Total	71.45 [40%]	71,450,000

HERCULES Flow - February 2023		Gallons
Minimum	1.36	1,360,000
Average (MGD)	1.54	1,540,000
Maximum	2.14	2,140,000
Total	43.04 [43%]	43,040,000

HERCULES Flow - March 2023		Gallons
Minimum	1.69	1,690,000
Average (MGD)	2.17	2,170,000
Maximum	3.27	3,270,000
Total	67.12 [39%]	67,120,000

PINOLE Flow - January 2023		Gallons
Minimum	1.17	1,170,000
Average (MGD)	3.41	3,410,000
Maximum	10.34	10,340,000
Total	105.66 [60%]	105,660,000

PINOLE Flow - February 2023		Gallons
Minimum	1.60	1,600,000
Average (MGD)	2.06	2,060,000
Maximum	3.80	3,800,000
Total	57.60 [57%]	57,600,000

PINOLE Flow - March 2023		Gallons
Minimum	2.24	2,240,000
Average (MGD)	3.40	3,400,000
Maximum	7.39	7,390,000
Total	105.34 [61%]	105,340,000

Monthly Performance Indicator Definitions

- Carbonaceous Biochemical Oxygen Demand (cBOD) – Measures dissolved oxygen depletion from organic carbon-containing compounds.
- Total Suspended Solids (TSS) – The dry weight of suspended particles that can be trapped by a filter.
- Coliform – A group of bacteria that can be found in the intestinal tract of humans and animals. It's used as an indicator organism to measure the presence of potential disease causing bacteria.
- Enterococcus – An indicator organism used to measure the presence of fecal matter in water.
- Ammonia – A key nutrient in the wastewater nitrification process but is toxic to fish and other aquatic life at higher concentrations.

Monthly Performance Indicators

January 2023 PERFORMANCE INDICATORS					
PARAMETER	UNIT	MONTHLY EFF LIMIT	INFLUENT AVERAGE	EFFLUENT AVERAGE	% REMOVAL
cBOD	mg/L	25	157	6.95	96
TSS	mg/L	30	178	10.07	94
Coliform	MPN	240		216	
Enterococcus	MPN	35		17.4	
Ammonia	mg/L	110		28	

March 2023 PERFORMANCE INDICATORS					
PARAMETER	UNIT	MONTHLY EFF LIMIT	INFLUENT AVERAGE	EFFLUENT AVERAGE	% REMOVAL
cBOD	mg/L	25	149	6.62	96
TSS	mg/L	30	150	8.36	94
Coliform	MPN	240		60	
Enterococcus	MPN	35		14.7	
Ammonia	mg/L	110		26	

February 2023 PERFORMANCE INDICATORS					
PARAMETER	UNIT	MONTHLY EFF LIMIT	INFLUENT AVERAGE	EFFLUENT AVERAGE	% REMOVAL
cBOD	mg/L	25	236	10.47	96
TSS	mg/L	30	223	12.03	95
Coliform	MPN	240		79	
Enterococcus	MPN	35		21.3	
Ammonia	mg/L	110		36	

- Effluent Coliform sampling is performed January, April, July and October.
- Influent Ammonia sampling is performed in June and November.

Project Updates

- Diesel Storage Tank Replacement – Completed
- Digester Cleaning (2) – Completed
- Effluent Pipe Air Relief Valve Replacements (3) – Under Contract ($27,600)
- Women's Locker Room – Completed
- WWTP Operations & Maintenance Manual – In Progress

Recent Activity

- Diesel Storage Tank Replacement Project Completed

Recent Activity

- Diesel Storage Tank Replacement Project Completed

Recent Activity

- Digester Cleaning Project Completed

Recent Activity

- Digester Cleaning Project Completed

Recent Activity

- Women's Locker Room Project Completed

Recent Activity

- Women's Locker Room Project Completed

Chemical Usage Analysis

Year	Month	Chlorine	Sodium Bisulfite	Ferric Chloride	Polymer 8846	Polymer 7879
2016	April	12286	10204	1380		
	May	11840	11531	1620		
	June	14245	13146	1660		
	Total	**38371**	**34881**	**4660**	**3**	**8.5**
2021	April	9128	10182	1237		
	May	11066	9666	715		
	June	9678	9705	846		
	Total	**29872**	**29553**	**2798**	**3.75**	**5.75**
2022	April	4448	4395	187		
	May	5024	4175	230		
	June	6055	4449	218		
	Total	**15527**	**13019**	**635**	**3.5**	**4.25**

2016 – Prior to Plant Upgrades Project

2021 – After Plant Upgrades Project

2022 – After New Disinfection System Upgrades

- Chemical usage in gallons, EXCEPT polymer is pre-packaged tote bins

SEWER ENTERPRISE FUND - 500
SEWER TREATMENT PLANT - 641

EXPENDITURE SUMMARY

	FY 2020/21 Actual	FY 2021/22 Actual	FY 2022/23 Actual Thru Mar-23	FY 2022/23 Revised Budget	FY 2023/24 Proposed Budget	Prop to Rev $ Change	Prop to Rev % Change
Personnel							
Salaries & Wages - 401	741,861	878,466	888,010	1,088,962	1,307,576	218,614	17%
Overtime - 402	29,534	30,180	26,271	36,010	36,476	466	1%
Employee Benefits - 410	837,547	1,025,647	475,733	547,954	622,392	74,438	12%
Total Personnel	**1,608,943**	**1,934,293**	**1,390,014**	**1,672,926**	**1,966,444**	**293,518**	**15%**
Services and Supplies							
Professional & Administrative Services - 42	348,643	194,110	117,017	373,000	376,814	3,814	1%
Other Operating Expenses - 43	736,747	827,105	583,167	630,000	710,000	80,000	11%
Materials & Supplies - 44	737,165	924,111	744,021	1,494,000	1,479,000	(15,000)	-1%
Total Services and Supplies	**1,822,556**	**1,945,326**	**1,444,204**	**2,497,000**	**2,565,814**	**68,814**	**3%**
Capital Outlay							
Asset Acquisition/Improvement - 47*	172,459	604	116,967	1,365,382	1,295,000	(70,382)	-5%
Total Capital Outlay	**172,459**	**604**	**116,967**	**1,365,382**	**1,295,000**	**(70,382)**	**-5%**
Indirect Cost Allocations							
Administrative Debits - 46122	276,932	303,060	163,728	257,116	285,041	27,925	10%
IS Charges - 46124	29,901	33,067	32,826	77,577	80,986	3,409	4%
Legal Charges - 46126	5,997	1,577	-	15,000	15,000	-	0%
General Liability Insurance - 46201	48,175	61,893	69,389	64,370	95,648	31,278	33%
Total Indirect Cost Allocations	**361,005**	**399,597**	**265,943**	**414,063**	**476,675**	**62,612**	**13%**
Depreciation							
Depreciation Expense - 47401	394,657	438,859	108,435	340,000	340,000	-	0%
Total Depreciation	**394,657**	**438,859**	**108,435**	**340,000**	**340,000**	**-**	**0%**
Total	**4,359,619**	**4,718,679**	**3,325,563**	**6,289,371**	**6,643,933**	**354,562**	**5%**

*See CIP

MAJOR NON-PERSONNEL EXPENSE DETAILS

		FY 2022/23	FY 2023/24	
42101 Professional Services		**$ 85,000**	**$ 85,814**	
Engineering contract services	$ 50,000			
PCTV quarterly subcommittee meeting	5,000			
Railroad Ave. bridge right of way study	30,000			
RO2102 Tennent Ave. Rehabilitation	814			
42107 Equipment Maintenance		**$ 110,000**	**$ 110,000**	
Equipment service	$ 110,000			
42108 Maintenance Structure/Imp		**$ 78,000**	**$ 78,000**	
Janitorial services	$ 10,000			
Various structure refurbishment	68,000			
42109 Compliance Inspections		**$ 35,000**	**$ 35,000**	
Laboratory supplies and safety equipment	$ 15,000			
Public outreach materials	10,000			
Sampling analysis	10,000			
42201 Office Expense		**$ 7,000**	**$ 7,000**	
Miscellaneous office supplies	$ 7,000			
4230X Travel and Training		**$ 28,000**	**$ 31,000**	
42301 State Certified operators training	$ 7,000			
42301 Class B Driver License Training	20,000			
42302 Mileage, Air	3,000			
42303 Meal Allowance	1,000			
42401 Memberships		**$ 20,000**	**$ 20,000**	
Bay Area Clean Water Assoc.(BACWA)	$ 12,000			
Joint CWEA/WEF membership	4,000			
Technical publications	4,000			
42511 Equipment Rental		**$ 10,000**	**$ 10,000**	
	$ 10,000			
Total Professional/Administrative Services				**$ 376,814**
4310X Utilities		**$ 630,000**	**$ 710,000**	
PG&E	$ 700,000			
EBMUD	10,000			
Total Other Operating Expenses				**$ 710,000**

44301 Fuel		**$ 10,000**	**$ 20,000**	
44302 Sludge Removal		**$ 280,000**	**$ 250,000**	
Digester Cleaning	$ 250,000			
44303 Chemicals		**$ 750,000**	**$ 750,000**	
Chemicals for Plant Operations	$ 750,000			
44304 Permit Fees		**$ 129,000**	**$ 129,000**	
BAAQMD	$ 16,000			
BACQA	16,000			
NPDES permit fee renewal	75,000			
Regional Monitoring of Metals (SFEI)	22,000			
44305 Laboratory Operations		**$ 100,000**	**$ 100,000**	
Accelerated Chronic Toxinicy Testing	$ 15,000			
Laboratory supplies	85,000			
44306 Maintenance Supplies		**$ 200,000**	**$ 200,000**	
	$ 200,000			
44410 Safety Clothing		**$ 25,000**	**$ 30,000**	
Laundry service for uniforms, safety shoes/boots, gloves, etc.	$ 30,000			
Total Materials and Supplies				**$ 1,479,000**
47101 Equipment		**$ 340,000**	**$ 340,000**	
Depreciation- Pinole only	$ 340,000			
47104 Vehicles		**$ 125,000**	**$ 175,000**	
WPCP Staff Vehicle	$ 50,000			
Portable self priming pump	125,000			
47201 Improvements/Building		**$ 1,230,000**	**$ 1,120,000**	
As-Built WWTP Drawings	25,000			
Boiler Rehabilitation	45,000			
Centrifuge Feed Pump Replacement	50,000			
Digester Feed Pump Replacement	75,000			
Energy Recovery Building and Admin Roof	80,000			
Misc. Plant Improvements	75,000			
SCADA System Upgrade	45,000			
SS2002 Water Pollution Control Plant Lab Remodel	100,000			
SS2101 Second Clarifier - Center Column Rehabilitation	425,000			
SS2102 Air Release Valve Replacement	50,000			
SS2203 Effluent Outfall Project Design	150,000			
47205 Improvements/Street		**$ 10,382**	**$ -**	
RO2102 Tennent Ave. Rehabilitation	-			

CITY OF PINOLE
CAPITAL IMPROVEMENT PLAN: FY 2023/24 THROUGH FY 2027/28
FUNDING SUMMARY

SOURCES BY FUND	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	5-Year Total
100 - General Fund	$ 260,000	$ 480,000	$ -	$ -	$ -	$ 740,000
106 - Measure S 2014	$ 2,948,376	$ 3,197,746	$ 500,000	$ -	$ -	$ 6,646,122
200 - Gas Tax	$ 428,910	$ 481,082	$ -	$ -	$ -	$ 909,992
214 - Solid Waste	$ 125,000	$ 100,000	$ 100,000	$ 100,000	$ -	$ 425,000
215 - Grant: TLC	$ 133,579	$ -	$ -	$ -	$ -	$ 133,579
215 - Grant: HSIP	$ 239,040	$ -	$ -	$ -	$ -	$ 239,040
215 - Grant: OBAG	$ 350,000	$ -	$ -	$ -	$ -	$ 350,000
276 - Growth Impact Fees	$ 1,003,000	$ 395,000	$ -	$ -	$ -	$ 1,398,000
325 - City Street Improvements	$ -	$ 417,321	$ -	$ -	$ -	$ 417,321
325 - Grant: TDA Article 3	$ 129,400	$ -	$ -	$ -	$ -	$ 129,400
325 - Grant: STMP Fees	$ 1,643,889	$ -	$ -	$ -	$ -	$ 1,643,889
325 - Grant: HBP	$ 41,394	$ -	$ -	$ -	$ -	$ 41,394
377 - Arterial Streets Rehabilitation	$ 758,624	$ -	$ -	$ -	$ -	$ 758,624
500 - Sewer Enterprise Fund	$ 2,825,814	$ 3,160,597	$ 800,000	$ 3,800,000	$ 4,129,000	$ 14,715,411
Sources Total	$ 10,887,026	$ 8,231,746	$ 1,400,000	$ 3,900,000	$ 4,129,000	**$ 28,547,772**
Unfunded Total	**$ 1,320,300**	$ 28,950,000	$ -	$ -	$ -	**$ 30,270,300**
Total Sources Required	**$ 12,207,326**	**$ 37,181,746**	**$ 1,400,000**	**$ 3,900,000**	**$ 4,129,000**	**$ 58,818,072**

FACILITIES

PRJ #	PROJECT	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	5-Year Total
FA2302	Plum St. Parking Lot Improvements	$ -	$ 80,000	$ -	$ -	$ -	$ 80,000
FA2301	Public Safety Building Modernization	$ 100,000	$ 100,000	$ 100,000	$ -	$ -	$ 300,000
FA2202	Senior Center Modernization	$ 160,000	$ 100,000	$ -	$ -	$ -	$ 260,000
FA1902	Energy Upgrades	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000
FA1901	Senior Center Auxiliary Parking Lot	$ 405,085	$ 922,746	$ -	$ -	$ -	$ 1,327,831
FA1703	City Hall Modernization	$ 125,000	$ 125,000	$ -	$ -	$ -	$ 250,000
FA1702	Citywide Roof repairs and replacement	$ 450,000	$ 450,000	$ -	$ -	$ -	$ 900,000

PARKS

PRJ #	PROJECT	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	5-Year Total
PA2301	Tree Mitigation	$ 75,000	$ 75,000	$ -	$ -	$ -	$ 150,000
PA2202	Skatepark Rehabilitation	$ -	$ 150,000	$ -	$ -	$ -	$ 150,000
PA2201	Pocket Parks - Galbreth Rd.	$ -	$ 65,000	$ -	$ -	$ -	$ 65,000
PA2101	Installation of high-capacity trash bins	$ 125,000	$ 100,000	$ 100,000	$ 100,000	$ -	$ 425,000
PA1901	Pinole Valley Park Soccer Field Rehabilitation	$ -	$ 200,000	$ -	$ -	$ -	$ 200,000

SANITARY SEWER

PRJ #	PROJECT	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	5-Year Total
SS2203	Effulent Outfall*	$ 150,000	$ -	$ -	$ 3,000,000	$ -	$ 3,150,000
SS2201	Sanitary Sewer Rehabilitation	$ 1,500,000	$ 800,000	$ 800,000	$ 800,000	$ 800,000	$ 4,700,000
SS2101	Secondary Clarifier - Center Column Rehabilitation*	$ 425,000	$ -	$ -	$ -	$ -	$ 425,000
SS2102	Air Release Valve Replacements*	$ 50,000	$ -	$ -	$ -	$ -	$ 50,000
SS2002	Water Pollution Control Plant Lab Remodel*	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000
SS1702	Sewer Pump Station Rehabilitation	$ 1,200,000	$ 2,254,000	$ -	$ -	$ 3,329,000	$ 6,783,000

STORMWATER

PRJ #	PROJECT	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	5-Year Total
SW2001	Roble Road Drainage Improvements	$ -	$ 700,000	$ -	$ -	$ -	$ 275,000
SW1901	Hazel Street Storm Drain Improvements	$ 558,000	$ -	$ -	$ -	$ -	$ 250,000

STREETS & ROADS

PRJ #	PROJECT	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	5-Year Total
RO2304	Safety Improvements at Tennent Ave./Pear & Plum	$ 110,000	$ 400,000	$ 400,000	$ -	$ -	$ 910,000
RO2303	Pinole Smart Signals	$ 154,302	$ -	$ -	$ -	$ -	$ 154,302
RO2302	Safety Improvements on Arterial Roadways	$ 275,000	$ -	$ -	$ -	$ -	$ 275,000
RO2301	Road Rehabilitation	$ -	$ 250,000	$ -	$ -	$ -	$ 250,000
RO2107	Brandt St. Improvements	$ -	$ 170,000	$ -	$ -	$ -	$ 170,000
RO2102	Tennent Ave. Rehabilitation	$ 814	$ 655,000	$ -	$ -	$ -	$ 655,814
RO2101	Arterial Rehabilitation	$ 1,187,534	$ -	$ -	$ -	$ -	$ 1,187,534
RO1902	Pedestrian Improvements at Tennent Ave. near R X R	$ 1,365,000	$ -	$ -	$ -	$ -	$ 1,365,000
RO1802	Hazel Street Gap Closure (Sunnyview)	$ -	$ 200,000	$ -	$ -	$ -	$ 200,000
RO1714	Safety Improvements at Appian Way & Marlesta Rd.	$ 672,429	$ -	$ -	$ -	$ -	$ 672,429
RO1710	San Pablo Ave. Bridge over BNSF Railroad	$ 1,974,162	$ 28,800,000	$ -	$ -	$ -	$ 30,774,162
RO1708	Pinole Valley Road Improvements	$ -	$ 100,000	$ -	$ -	$ -	$ 100,000

INFRASTRUCTURE ASSESSMENTS

PRJ #	ASSESSMENT	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	5-Year Total
IN2301	Facilities & Real Estate Master Plan	$ 200,000	$ -	$ -	$ -	$ -	$ 200,000
IN2201	Energy Conservation, Generation, & Storage Assessment	$ 50,000	$ -	$ -	$ -	$ -	$ 50,000
IN2101	Emergency Power for Critical Facilities	$ 30,000	$ 170,000	$ -	$ -	$ -	$ 200,000
IN2102	Municipal Broadband Feasibility	$ 60,000	$ -	$ -	$ -	$ -	$ 60,000
IN2103	Recycled Water Feasibility	$ 60,000	$ 140,000	$ -	$ -	$ -	$ 200,000
IN2105	Appian Way Complete Streets	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000
IN2106	Active Transportation Plan	$ 170,000	$ -	$ -	$ -	$ -	$ 170,000
IN1703	Storm Drainage Master Plan	$ 75,000	$ 175,000	$ -	$ -	$ -	$ 250,000
IN1704	Park Master Plan	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000
	Uses by Project Total	**$12,207,326**	**$37,181,746**	**$1,400,000**	**$3,900,000**	**$4,129,000**	

LEGEND:

- Project numbers: **FA** = Facilities; **PA** = Parks; **SS** = Sanitary Sewer; **SW** = Storm Water; **RO** = Streets & Roads; **IN** = Infrastructure Assessments

* Project cost to be split 50% with the City of Hercules

Budget Worksheet
Fund: 500 - Sewer Enterprise Fund (Div 641)
Proposed Fiscal Year (FY) 2023/24 Budget

Account	2023-24 Operating	2023-24 Capital	Total	Notes
Category: 40 - SALARIES AND WAGES				
40101 - Salary & Wages/Full Time	$ 1,258,056.00		$ 1,258,056.00	
40102 - Salary & Wages/Part Time	15,314.00		15,314.00	
40103 - Salary & Wages/Vacation Leave	3,059.00		3,059.00	
40108 - Salary & Wages/Longevity Pay	2,447.00		2,447.00	
40201 - Overtime	34,500.00		34,500.00	
40202 - FLSA Overtime	1,976.00		1,976.00	
40302 - Other Pay/Stand By Pay	15,700.00		15,700.00	
40307 - Other Pay/Education Incentive	6,300.00		6,300.00	
40311 - Other Pay/Cell Phone	4,500.00		4,500.00	
40312 - Other Pay/Safety Equip	2,200.00		2,200.00	
Category: 40 - SALARIES AND WAGES Total:	**1,344,052.00**	**-**	**1,344,052.00**	
Category: 41 - EMPLOYEE BENEFITS				
41001 - Emp Benefits/Medical-Active	194,052.00		194,052.00	
41002 - Emp Benefits/Dental	12,878.00		12,878.00	
41003 - Emp Benefits/Vision Care	2,457.00		2,457.00	
41004 - Emp Benefits/PERS Retirement	297,055.00		297,055.00	
41005 - Emp Benefits/Employee Assistance Prg	513.00		513.00	
41007 - Emp Benefits/Life-ADD	1,087.00		1,087.00	
41008 - Emp Benefits/Long Term Disability	2,897.00		2,897.00	
41009 - Emp Benefits/Workers Comp	89,608.00		89,608.00	
41010 - Emp Benefits/FICA - Medicare	19,489.00		19,489.00	
41011 - Emp Benefits/FICA - Soc Sec	949.00		949.00	
41012 - Emp Benefits/Unemployment Insurance	1,407.00		1,407.00	
41101 - Retiree Benefits/Medical-Retiree	-		-	
Category: 41 - EMPLOYEE BENEFITS Total:	**622,392.00**	**-**	**622,392.00**	
Category: 42 - PROFESSIONAL/ADMINISTRATIVE SERVICES				
42101 - Prof Svcs/Professional Service	85,814.00		85,814.00	
42107 - Prof Svcs/Equipment Maintenance	110,000.00		110,000.00	
42108 - Prof Svcs/Building-Structure Maintenance	78,000.00		78,000.00	
42109 - Prof Svcs/Compliance Inspection	35,000.00		35,000.00	
42201 - Office Expense	7,000.00		7,000.00	
42301 - Travel & Training/Conf-Registration	27,000.00		27,000.00	
42302 - Travel & Training/Mileage	3,000.00		3,000.00	
42303 - Travel & Training/Meal Allowance	1,000.00		1,000.00	
42401 - Dues & Pub/Memberships	20,000.00		20,000.00	
42511 - Admin Exp/Equipment Rent	10,000.00		10,000.00	
Category: 42 - PROFESSIONAL/ADMINISTRATIVE SERVICES Total:	**376,814.00**	**-**	**376,814.00**	
Category: 43 - OTHER OPERATING EXPENSES				
43102 - Utilities/Water	10,000.00		10,000.00	
43103 - Utilities/Electicity & Power	700,000.00		700,000.00	
Category: 43 - OTHER OPERATING EXPENSES Total:	**710,000.00**	**-**	**710,000.00**	
Category: 44 - MATERIALS AND SUPPLIES				
44301 - Other Mat & Sup/Fuel	20,000.00		20,000.00	

44302 - Other Materials Supp/Sludge Removal	250,000.00		250,000.00	
44303 - Other Materials Supp/Chemicals	750,000.00		750,000.00	
44304 - Other Materials Supp/Permit Fee	129,000.00		129,000.00	
44305 - Other Materials Supp/Lab Operations	100,000.00		100,000.00	
44306 - Other Materials Supp/Maintenance Supplies	200,000.00		200,000.00	
44410 - Safety Clothing	30,000.00		30,000.00	
Category: 44 - MATERIALS AND SUPPLIES Total:	**1,479,000.00**	**-**	**1,479,000.00**	
Category: 46 - INTERFUND/INTERDEPARTMENTAL CHARGES				
46122 - Admin Debits	285,041.00		285,041.00	
46124 - IS Charges	80,986.20		80,986.20	
46126 - Legal Charges	15,000.00		15,000.00	
46201 - Insurance/General Liability	95,648.00		95,648.00	
Category: 46 - INTERFUND/INTERDEPARTMENTAL CHARGES Total:	**476,675.20**	**-**	**476,675.20**	
Category: 47 - ASSET ACQUISITION, IMPROVEMENT, DISPOSAL				
47101 - FF&E/Equipment		-	-	
47104 - FF&E/Vehicles		175,000.00	175,000.00	Portable Self Priming Pump ($125,000)
				WPCP Staff Vehicle ($50,000)
47201 - Improvements/Building		1,120,000.00	1,120,000.00	Projects:
47205 - Improvements/Streets		-	-	
47302 - Property Disposal			-	
47402 - Depreciation/Building			-	
47404 - Depreciation/Vehicles			-	
47408 - Depreciation/Sewer			-	
47409 - Depreciation/Other Capital Asset			-	
Category: 47 - ASSET ACQUISITION, IMPROVEMENT, DISPOSAL Total:	**-**	**1,295,000.00**	**1,295,000.00**	
Total Expenses (excluding depreciation)	**$ 5,008,933**	**$ 1,295,000**	**$ 6,303,933**	
Hercules Share of Costs (50% of total expenses)			**$ 3,151,967**	
Total Expenses Budget (Fund 500, All divisions)			$ 12,252,222	
Hercules Share of Costs to Total Expenses Budget			26%	

As-Built WWTP Drawings	$ 25,000	Carryforward
Boiler Rehabilitation	$ 45,000	Carryforward
Centrifuge Feed Pump Replacement	$ 50,000	Carryforward
Digester Feed Pump Replacement	$ 75,000	Carryforward
Energy Recovery Building and Admin Roof	$ 80,000	Carryforward
Misc. Plant Improvements	$ 75,000	Carryforward
SCADA System Upgrade	$ 45,000	New
SS2002 Water Pollution Control Plant Lab Remodel	$ 100,000	Carryforward
SS2101 Second Clarifier - Center Column Rehabilitation	$ 425,000	Carryforward
SS2102 Air Release Valve Replacement	$ 50,000	Carryforward
SS2203 Effluent Outfall Project Design	$ 150,000	Carryforward

SS2203 - EFFLUENT OUTFALL

Functional Area	: Sanitary Sewer		**Project Origin**	: Regulatory Requirement		**Priority Score**	51
Type of CIP		**Budget**	**Unappropriated Subsequent Years**				
[ ] New [ ] Replacement [ ] Land/Row Acq. Required [ ] Rehabilitation	[X] Expansion [ ] Renovation	**Year 1 FY 2023-24**	**Year 2 FY 2024-25**	**Year 3 FY 2025-26**	**Year 4 FY 2026-27**	**Year 5 FY 2027-28**	**Estimated Project Life cycle cost**
Estimated Expenditures to-date	$ -	**$ 150,000**	**$ -**	**$ -**	**$ 3,000,000**	**$ -**	**$ 3,150,000**
Project Start	: 7/1/2023				**Estimated Completion**	: 6/30/2027	

Description

The Effluent Outfall project is intended to reduce pressure in the pipe during extreme storm events. Effluent pumping capacity of the treatment plant is limited by the capacity of the pipe size at the effluent outfall in Rodeo. Increasing the pipe size at the Effluent Outfall Eductor Station will increase the wet weather effluent pumping capacity and increase the lifespan of the effluent pipe by reducing the pressure in the line during storm events. This project requires coordination with Rodeo.

History, Status, or Impact if Delayed

General Plan Goals/Policies

Policy GM.4.1, Goal CS.6, Policy CS.6.1

Note to City of Hercules:
This CIP is continued from previous year and is part of shared cost.

Summary of Capital Cost

	Budget	Projected Budget				Project Estimate
USE(S)	**FY 2023-24**	**FY 2024-25**	**FY 2025-26**	**FY 2026-27**	**FY 2027-28**	**FY 2023-2028**
Design	$ 135,000					
Construction				$ 2,700,000		$ 2,700,000
Contingency	$ 15,000			$ 300,000		$ 315,000
TOTAL USES	**$ 150,000**	**$ -**	**$ -**	**$ 3,000,000**	**$ -**	**$ 3,150,000**
SOURCE(S)						
500 - Sewer Enterprise Fund	$ 150,000			$ 3,000,000		$ 3,150,000
TOTAL FUNDS	**$ 150,000**	**$ -**	**$ -**	**$ 3,000,000**	**$ -**	**$ 3,150,000**

SS2203 - SECONDARY CLARIFIER REHABILITATION

Functional Area	: Sanitary Sewer	**Project Origin** : End of life cycle	**Priority Score** 45

Type of CIP		**Budget**	**Unappropriated Subsequent Years**				
		Year 1 FY 2023-24	**Year 2 FY 2024-25**	**Year 3 FY 2025-26**	**Year 4 FY 2026-27**	**Year 5 FY 2027-28**	**Estimated Project Life cycle cost**
	New						
X	Replacement						
	Land/Row Acq. Required						
	Rehabilitation						
	Expansion						
	Renovation						
Estimated Expenditures to-date	$ -	**$ 425,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 425,000**

Project Start : 7/1/2023 **Estimated Completion** : 6/30/2024

Description

The Water Pollution Control Plant (WPCP) has five secondary clarifiers which slow the flow to allow the microorganisms and other solids to settle to the bottom of the clarifier where they can be returned to aeration tanks to continue treating waste.

History, Status, or Impact if Delayed

Secondary Clarifiers 1 and 2 (SC1 and SC 2) were constructed in the early 1970s and are peripheral feed clarifiers. Secondary Clarifiers 3 and 4 (SC 3 and SC 4) were constructed in the early 1980s and are center feed clarifiers. Secondary Clarifier 5 (SC 5) was constructed in early 2000 and is a center feed, flocculator clarifier. In the first quarter of FY 2022-23, a preliminary inspection of the center column of the SC 5 was completed to examine the current condition and determine the scope of work for rehabilitation. In the second quarter of FY 2022-23, it was determined that SC 3 & SC 4 also require rehabilitation. Previously, this project was titled, "Secondary Clarifier - Center Column Rehabilitation" which only focused on the rehabilitation work required for SC 5.

General Plan Goals/Policies

Goal CS.1, Goal CS.6, Policy CS.6.1

Note to City of Hercules:
This CIP is continued from previous year and is part of shared cost.

Summary of Capital Cost

	Budget	**Projected Budget**				**Project Estimate**
USE(S)	**FY 2023-24**	**FY 2024-25**	**FY 2025-26**	**FY 2026-27**	**FY 2027-28**	**FY 2023-2028**
Construction SC 5	$ 315,000					$ 315,000
Construction SC 3, SC 4	$ 67,500					$ 67,500
Contingency	$ 42,500					$ 42,500
TOTAL USES	**$ 425,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 425,000**
SOURCE(S)						
500 - Sewer Enterprise Func	$ 425,000					$ 425,000
TOTAL FUNDS	**$ 425,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 425,000**

SS2102 - AIR RELEASE VALVE REPLACEMENTS

Functional Area	: Sanitary Sewer		**Project Origin**	: Staff Recommendation		**Priority Score**	
Type of CIP		**Budget**	**Unappropriated Subsequent Years**				
[ ] New [X] Replacement [ ] Land/Row Acq. Required [ ] Rehabilitation	[ ] Expansion [ ] Renovation	**Year 1 FY 2023-24**	**Year 2 FY 2024-25**	**Year 3 FY 2025-26**	**Year 4 FY 2026-27**	**Year 5 FY 2027-28**	**Estimated Project Life cycle cost**
Estimated Expenditures to-date	$ 35,000	**$ 50,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 85,000**
Project Start	: 7/1/2022				**Estimated Completion**	: 6/30/2024	

Description

There are several air relief valves at various locations on the WPCP Effluent Pipeline between the WPCP and the Rodeo treated water discharge point. This project includes removal and replacement of the pipe saddle, short pipe section, isolation valve, and air relief valve.

History, Status, or Impact if Delayed

Staff has received quotes to replace three air relief valves by the end of FY 2022-23.

General Plan Goals/Policies

Goal CS.1, Goal CS.6, Policy CS.6.1

Note to City of Hercules:
This CIP is continued from previous year and is part of shared cost.

Summary of Capital Cost

	Budget	Projected Budget				Project Estimate
USE(S)	**FY 2023-24**	**FY 2024-25**	**FY 2025-26**	**FY 2026-27**	**FY 2027-28**	**FY 2023-2028**
Construction	$ 45,000					$ 45,000
Contingency	$ 5,000					$ 5,000
TOTAL USES	**$ 50,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 50,000**
SOURCE(S)						
500 - Sewer Enterprise Func	$ 50,000					$ 50,000
TOTAL FUNDS	**$ 50,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 50,000**

SS2002 - WATER POLLUTION CONTROL PLANT LAB REMODEL

Functional Area	: Sanitary Sewer	**Project Origin** : Regulatory Requirement	**Priority Score** 48

Type of CIP		**Budget**	**Unappropriated Subsequent Years**				
[ ] New [ ] Replacement [ ] Land/Row Acq. Required [ ] Rehabilitation	[ ] Expansion [X] Renovation	**Year 1 FY 2023-24**	**Year 2 FY 2024-25**	**Year 3 FY 2025-26**	**Year 4 FY 2026-27**	**Year 5 FY 2027-28**	**Estimated Project Life cycle cost**
Estimated Expenditures to-date	$ -	**$ 100,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 100,000**

Project Start : 7/1/2023 **Estimated Completion** : 6/30/2024

Description

The California Environmental Laboratory Accreditation Program (ELAP) is responsible for accrediting environmental testing labs including the Pinole - Hercules WPCP. The 2019 ELAP inspection results indicated the lab apparatus, countertops, and the fume hood are past their useful life and recommended replacement.

History, Status, or Impact if Delayed

General Plan Goals/Policies

Policy GM.4.1, Goal CS.1, Policy CS.2.6

Note to City of Hercules:
This CIP is continued from previous year and is part of shared cost.

Summary of Capital Cost

	Budget	**Projected Budget**				**Project Estimate**
USE(S)	**FY 2023-24**	**FY 2024-25**	**FY 2025-26**	**FY 2026-27**	**FY 2027-28**	**FY 2023-2028**
Design	$ 6,000					$ 6,000
Construction	$ 85,000					$ 85,000
Contingency	$ 9,000					$ 9,000
TOTAL USES	**$ 100,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 100,000**
SOURCE(S)						
500 - Sewer Enterprise Func	$ 100,000					$ 100,000
TOTAL FUNDS	**$ 100,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 100,000**

IN2103 - RECYCLED WATER FEASIBILITY

Functional Area	: Infrastructure Assessment	Project Origin	: Council Request	Priority Score

Type of CIP		Budget	Unappropriated Subsequent Years				
☐ New ☐ Expansion ☐ Replacement ☐ Renovation ☐ Land/Row Acq. Required ☐ Rehabilitation		Year 1 FY 2023-24	Year 2 FY 2024-25	Year 3 FY 2025-26	Year 4 FY 2026-27	Year 5 FY 2027-28	Estimated Project Life cycle cost
Estimated Expenditures to-date	$ -	$ 60,000	$ 140,000	$ -	$ -	$ -	$ 200,000

Project Start	: 7/1/2022	Estimated Completion	: 6/30/2024

Description

A feasibility study will allow the City to plan and phase the construction of future recycled water distribution system infrastructure. The study will identify potential recycled water customers, evaluate the quantity, quality, and recycled water distribution system options to address the needs of potential users in surrounding areas, seek opportunities to phase the construction of a recycled water delivery system, and develop planning-level cost options for the phased system.

The feasibility study will identify potential recycled water customers, evaluate the quantity, quality, and recycled water distribution system options to address the needs of potential users in surrounding areas. This project is continued from the last year CIP.

Note for City of Hercules:
City of Hercules is invited to participate in this program to identify potential recycled water customers in the City of Hercules. This feasibility study will not address EBMUD efforts for recycled water at Philips 66. If City of Hercules wants to participate in this study, this cost can be shared. We anticipate this feasibility study will cost around $200k over 2 fiscal years.

General Plan Goals/Policies

Policy OS.8.1, Policy OS.8.7, Goal SE.9, Policy SE.9.1, Policy SE.9.4

Summary of Capital Cost

	Budget	Projected Budget					Project Estimate
USE(S)	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28		FY 2023-2028
Planning	$ 60,000	$ 140,000					$ 200,000
Contingency							$ -
TOTAL USES	**$ 60,000**	**$ 140,000**	**$ -**	**$ -**	**$ -**		**$ 200,000**
SOURCE(S)							
100 - General Fund	$ 60,000	$ 140,000					$ 200,000
TOTAL FUNDS	**$ 60,000**	**$ 140,000**	**$ -**	**$ -**	**$ -**		**$ 200,000**