PINOLE/HERCULES
WASTEWATER SUBCOMMITTEE

APRIL 24, 2023
AT 7:00 P.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 FROM THE MAY 25, 2023 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 SEWER CONNECTIONS**
    i. **PINOLE (VERBAL)**
    ii. **HERCULES (VERBAL)**
8. **PROCEDURE TO SETUP WASTEWATER SUB-COMMITTEE MEETINGS**
9. **ADJOURN TO THE REGULAR SUBCOMMITTEE MEETING OF AUGUST 1, 2024 AT 8:30AM.**

WASTEWATER SUBCOMMITTEE MEETING MINUTES

May 25, 2023

1. CALL TO ORDER & PLEDGE OF ALLEGIANCE

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 8:33am and led the Pledge of Allegiance.

2. ROLL CALL & STATEMENT OF CONFLICT

An official who has a conflict must, prior to consideration of the decision; (1) publicly identify in detail the financial interest that causes the conflict; (2) recuse himself/herself from discussing and voting on the matter; and (3) leave the room until after the decision has been made, Cal. Gov. Code§ 87105.

A. COUNCILMEMBERS PRESENT

Anthony Tave, Council Member - City of Pinole
Maureen Toms, Council Member - City of Pinole
Dan Romero, Council Member - City of Hercules
Tiffany Grimsley, Council Member - City of Hercules

COUNCILMEMBERS ABSENT
None

B. STAFF PRESENT

City of Pinole
Sanjay Mishra, Public Works Director
Josh Binder, Plant Manager
Markisha Guillory, Finance Director

City of Hercules
Mike Roberts, Public Works Director

3 APPROVAL OF MINUTES FROM THE SEPTEMBER 1, 2022 MEETING

Council Member Toms made a motion to approve; council member Romero seconded; minutes approved.

4. CITIZENS TO BE HEARD (Public Comments)

Citizens may speak under any item not listed on the Agenda. The time limit is 3 minutes and is subject to modification by the Chair. Individuals may not share or offer time to another speaker. Pursuant to provisions of the Brown Act, no action may be taken on a matter unless it is listed on the agenda, or unless certain emergency or special circumstances exist.

PUBLIC COMMENTS OPENED

James T.: Lives on El Toro Way, development was built in the 1960s. Not sure how big the main is but capacity of the flow with all the people renting out rooms and garages causes toilet back up, has to wait hours to use the toilet because flow is too heavy. How many rooming houses are in the City of Pinole and Hercules? Sewer main is backed up during certain hours, can code enforcement enforce the health and safety codes? Could cities please discuss the issue so he can flush his toilet when he needs to. Has notes he will hand to the committee.

PUBLIC COMMENTS CLOSED

5. WATER POLLUTION CONTROL PLANT (WPCP) OPERATIONS REPORT

Plant Manager Binder presented the Operator's report for the period of January-March of 2023 which covered monthly flow data, monthly performance indicators and project updates. Plant Manager Binder mentions that these were wet months, so some numbers are higher.

Council Member Toms: Requests the data for the last half of 2022. Hercules has a larger population but shows only 40% of the flow during these wet months; what is the typical flow in a dry month?

Council Member Romero: Questions the "right of use" on monthly flow, it is almost contractual, nothing was ever set up especially since the expansion. Would like to see the averages MGD for both cities and strike the right of use. Regarding the flows, what occurs during heavy rains is Pinole's section of Pinole/Hercules wastewater is only 50%, it's due to root intrusion, would have thought that the upgraded system would handle the heavy rain. The plant performed well. Hercules is usually 50-60% of dry flow in the past but this is a complete reversal, numbers are large so maybe Pinole residents might have to check their sewer lines and take care of root intrusion. Hercules started that program years ago.

Council Member Grimsley: Agrees with Romero. Make this data available to the community, pursue something to have them more actively involved to take responsibility for their individual property check to check on root intrusions.

Chair Tave: The system is old, the sewer master plan was just done, has anyone looked at the hydraulics of the creek if any pipes were submerged?

Director Mishra: Doesn't think the creek has a role to play, we do have a lot of I&I. The master plan will go ahead with upsizing some of the pipes. We had an inspection with the Water Board; we have the sewer lateral program with the city; we are sending out letters to all residents to TV their line and fix issues.

Chair Tave: There must be something else like a storm drain collection or catch basin.

Director Mishra: We are thinking the same, maybe a cross-connection somewhere, maybe during the rains there were sump pumps illegally connected to the sewer. We have plans to do the smoke testing where we think the problems might be.

From the presentation slides, Plant Manager Binder presented the Monthly Performance Indicators averages for each month, followed by the Project Updates and Recent Activity.

Council Member Romero: We have a CIP on the plant, when we designed the upgrades to the plant years ago the committee developed a peer review of the design. Are we going through that process again, as these projects come up, to see what staff is requesting is what is needed? Presented an engineer's design plan from 2013 and will make it available to everyone.

Plant Manager Binder presented the Chemical Usage Analysis from before the plant was upgraded, shown by the year 2016, 2021, and 2022. Chemical usage has dropped significantly since 2016; some chemicals have had high cost increases over the past two fiscal years, the budget may not reflect a decrease in cost. Chlorine as the highest increase of 89% in FY2022/23 and is increasing again to 103% in FY2023/24.

Council Member Grimsley: What is the impact with the reduction of chemical uses?

Plant Manager Binder: The first reduction from 2016 to 2021 was a result of the last plant upgrade project which involved the disinfection system. The reduction in 2021/22 was the result of an additional upgrade which included new process analyzers, new programming for the analyzers, a sample point was relocated

that was better suited for the process, and with the most recent upgrade resulted in significantly less chemicals.

Council Member Grimsley: Are there any quality impacts as a result?

Plant Manager Binder: The quality does not result in a higher quality effluent, we are meeting the disinfection requirements and permit requirements, that is unchanged.

Chair Tave: Do we know what the increase cost in chemicals is being attributed to?

Plant Manager Binder: UV light was considered during plant upgrade and can be still considered. The treatment plant is part of the Bay Area Chemical Consortium, the pricing that we receive is for the entire region as part of a competitive bid process. Costs are increasing because of demand in other industrial sectors.

Chair Tave: We need to keep a sharp eye on the costs which directly affect operating the plant, we might have to figure out what the alternatives are.

Council Member Romero: The chemical usage tells us the plant and its design has been a success, its performing at a much higher level than we anticipated. How does our plant compare to others would be good to know. The Ukraine produces a lot of fertilizer for the world, maybe some of the cost increases are from that impact.

PUBLIC COMMENTS OPENED

James T.: Since 2015 to today water has been running down our side between 15-20 gallons per hour, also one on Ridgecrest which was repaired. Has spoken to EBMUD and city several times.

Solid Waste: Can we measure the waste solids from 2018 and compare them to 2019 through 2023, that way we know how much waste products we have in Pinole.

We had a program that did infiltration in sewer laterals, can we do a program that is free to the public to get the statistics of the problem areas?

PUBLIC COMMENTS CLOSED

Council Member Toms: Once the flow comes into the plant it combines Pinole and Hercules, so it can't be broken down between the two cities.

Director Roberts: If understanding the questions correctly, it's about the flow increasing when you don't have infiltration. There is a way to measure dry weather flow, there are meters at both pipes before they join and go into the plant, believes we can respond to that.

Director Mishra: The dry weather flow should give you the proportion of solids as well, during wet weather flow despairs, and you will not know.

6. FISCAL YEAR (FY) 2023-24 BUDGET

Director Mishra presented the budget for Fiscal Year 2023-24. He noted that there are slight changes to some numbers; please inquire. Finance Director Guillory was also present to answer questions. There was an increase in costs regarding staffing. The administrative debit charges were responded to via email. General liability and workers compensation insurance increased by 33%.

Council Member Romero: The concern is the 20% increase in salaries and wages for personnel, understands there was a comp study. Administrative debits state the increase was 10% - how does that compare to 20% salary increases, was the plant staff underpaid, is the comp study posted on the website?

Finance Director Guillory: The comp study is not posted online, can be requested from the HR Director. The components of the increase included the cost of living adjustment as well as bringing salaries up to market rates - for some classifications there was a 30% increase.

Council Member Romero: Why does OT not reflect the 17% increase?

Director Mishra: OT is budgeted, but not the actual dollar amount was spent for OT. It was carried over from last FY, essentially presenting a place holder.

Council Member Romero: The budget of $15,000 for legal charges, is that something city of Hercules should be aware of?

Director Mishra: Another placeholder. There was a claim with PG&E prior which was resolved.

Council Member Romero: The other concern is the liability increase, does Pinole belong to MPA (Finance Director Guillory: Yes), every city has their own laws ratio and gets charged according to that; apparently claims were made that were not made in Hercules.

Chair Tave: The additional capital projects may have been legacy projects, could there be any efforts to try and complete that capital list, or are there any grant opportunities, anything that could help elevate budgeting?

Director Mishra: We are locked in with our CIP projects and committed to those only. We can add on capital projects for completion in future.

Director Mishra proceeded with the Capital Projects overview. A summary sheet shows what is being prop0osed. Most CIP projects are carried over from the previous year. The first project is Effluent Outfall, continued from previous year, work has not begun as we're looking to have a consultant on board for the design work. The second project is Secondary Clarifier Rehabilitation, carried over from last year, consultant provided a proposal for the cost as well as an equipment manufacturer, decision has not made yet. The third project is Air Release Valve Replacements, will be completed this FY by June/early July. The fourth project is Water Pollution Control Plant Lab Remodel, no progress, tasked for this FY. The fifth and last project is the infrastructure assessment project called Recycled Water Feasibility, RFP has been posted.

Council Member Toms: On future budget, can we breakout the sanitary sewer part of the CIP into shared costs and Pinole-only costs.

Council Member Romero: Would like to see the Effluent Outfall. The Secondary Clarifier Rehabilitation is a concern because it was part of the reconstruction, here we are in the 2nd year and there is an update of $425,000. The equipment that was part of the upgrade was not replaced; we should be checking with Corolla Engineering to find out what is going on. Was also under the impression that part of the upgrade included the lab remodel.

Council Member Grimsley: For each of these projects is there a project plan document that identifies which components have been completed and what is still in process?

Director Mishra: Some of them are not yet in the development and design stage. We may have reports about the status.

Chair Tave: Several items still need to be completed. The decision was made to finish them at a later date and capitalize them over time, that way we see the cost spending drop. But the cost still increases over time, what does that list look like, how do we take any surplus budget and try to allocate the funding so those the outstanding items get done. We need to know what the financial impact is, we don't need to be in an emergency situation with the wastewater plant.

Council Member Romero: Coming out of the remodel we should have had a list of priorities and what did not get finished. The CIP at this point is current for 2023-2024 as opposed to be for future years, we're not seeing what came out of the remodel and what was left over, we need that report.

Director Mishra: After the project was completed there was a technical memorandum prepared for the various tasks and activities the plan needs, but the city manager suggested to hire a consultant to complete the task.

PUBLIC COMMENTS OPENED

James T.: The understanding is that upgrades were done but not enough, how much is that going to cost the rate payer, needs to be reviewed. What also needs to be reviewed is that town houses and condos get a break; they should not have to pay what single family homes do. The reason for the break is that they don't have a lot of laterals.

PUBLIC COMMENTS CLOSED

7. NEW CONNECTIONS

No New Connections were reported by Pinole or Hercules. Staff Mishra mentioned that currently ongoing projects will eventually lead to new connections once completed.

Council Member Toms: There was a speaker at East Bay Leadership, and she forwarded the recording to Director Mishra to forward to the committee. The speaker talked about wastewater and water quality in the Bay and new, long-term permit requirements that will be implemented in future.

PUBLIC COMMENTS OPENED - No Public Comments - PUBLIC COMMENTS CLOSED

8. ADJOURNMENT to the next meeting on September 1, 2023

At 9:43am Chair Anthony Tave adjourned the meeting to the Wastewater Subcommittee Meeting on September 1, 2022.

Submitted by:
Sanjay Mishra
Public Works Director
City of Pinole

Approved by Wastewater Subcommittee Meeting:

PINOLE-HERCULES WASTEWATER SUBCOMMITTEE

OPERATIONS REPORT

April 24, 2024

Josh Binder, Plant Manager

Topics Will Include:

1. Monthly Flow Data
2. Monthly Performance Indicators
3. Project Updates

Monthly Flow Data

Hercules right to use: 2.27 MGD*

Pinole right to use: 1.79 MGD*

* Average Dry Weather Flow

HERCULES Flow – January 2024		Gallons
Minimum	1.42	1,420,000
Average (MGD)	1.63	1,630,000
Maximum	2.01	2,010,000
Total	50.54 [48%]	50,540,000

HERCULES Flow - February 2024		Gallons
Minimum	1.57	1,570,000
Average (MGD)	1.97	1,972,000
Maximum	3.19	3,190,000
Total	57.18 [44%]	57,180,000

HERCULES Flow - March 2024		Gallons
Minimum	1.42	1,420,000
Average (MGD)	1.66	1,660,000
Maximum	2.36	2,360,000
Total	51.47 [46%]	51,470,000

PINOLE Flow - January 2024		Gallons
Minimum	1.33	1,330,000
Average (MGD)	1.74	1,735,000
Maximum	2.76	2,760,000
Total	53.77 [52%]	53,770,000

PINOLE Flow - February 2024		Gallons
Minimum	1.57	1,570,000
Average (MGD)	2.46	2,463,000
Maximum	5.79	5,790,000
Total	71.43 [56%]	71,430,000

PINOLE Flow - March 2024		Gallons
Minimum	1.53	1,530,000
Average (MGD)	1.94	1,940,000
Maximum	3.63	6,630,000
Total	60.19 [54%]	60,190,000

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 2024 PERFORMANCE INDICATORS					
PARAMETER	UNIT	MONTHLY EFF LIMIT	INFLUENT AVERAGE	EFFLUENT AVERAGE	% REMOVAL
cBOD	mg/L	25	198	7.32	96
TSS	mg/L	30	250	17.53	93
Coliform	MPN	240		N/A	
Enterococcus	MPN	35		16.3	
Ammonia	mg/L	110		46	

March 2024 PERFORMANCE INDICATORS					
PARAMETER	UNIT	MONTHLY EFF LIMIT	INFLUENT AVERAGE	EFFLUENT AVERAGE	% REMOVAL
cBOD	mg/L	25	196	6.15	97
TSS	mg/L	30	233	7.84	97
Coliform	MPN	240		N/A	
Enterococcus	MPN	35		7.9	
Ammonia	mg/L	110		35	

February 2024 PERFORMANCE INDICATORS					
PARAMETER	UNIT	MONTHLY EFF LIMIT	INFLUENT AVERAGE	EFFLUENT AVERAGE	% REMOVAL
cBOD	mg/L	25	154	5.32	97
TSS	mg/L	30	203	10.35	95
Coliform	MPN	240		N/A	
Enterococcus	MPN	35		14.7	
Ammonia	mg/L	110		18	

- Effluent Coliform sampling is no longer required in our new permit.
- Influent Ammonia sampling is performed in June and November.

Project Updates

- NPDES Permit Renewal (August 1st, 2023 – July 31st, 2028) - Completed
- Digester #2 Cleaning and Repairs – Completed
- Effluent Pipe Air Relief Valve Replacements (3) – Completed
- Effluent Force Main Realignment – Completed
- 3D WWTP Tour – Completed
- Effluent Outfall Project – Out To Bid
- WWTP Operations & Maintenance Manual – In Progress

Project Updates

- Digester #2 Cleaning and Repairs

Project Updates

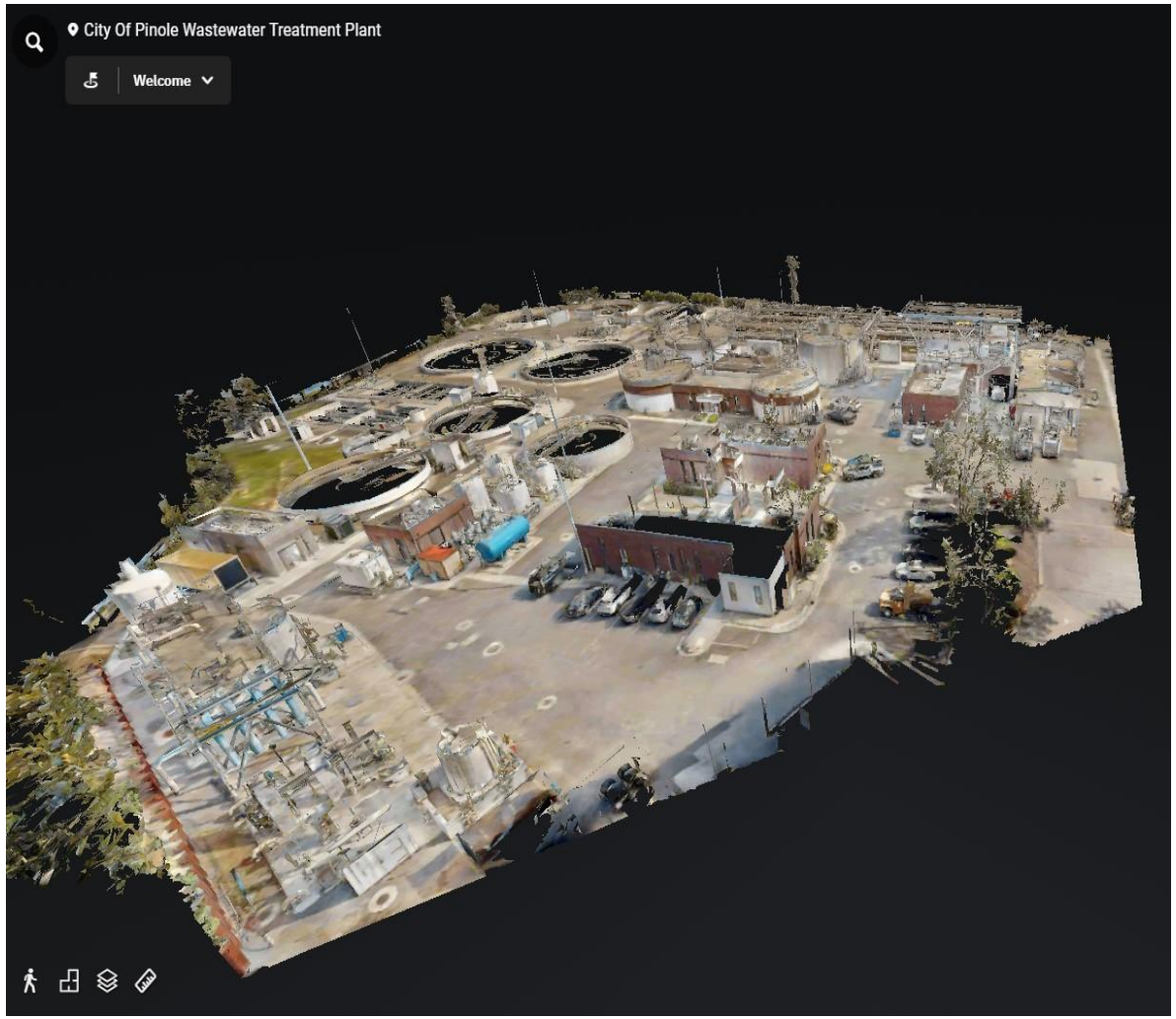
- Effluent Pipe Air Relief Valve Replacements

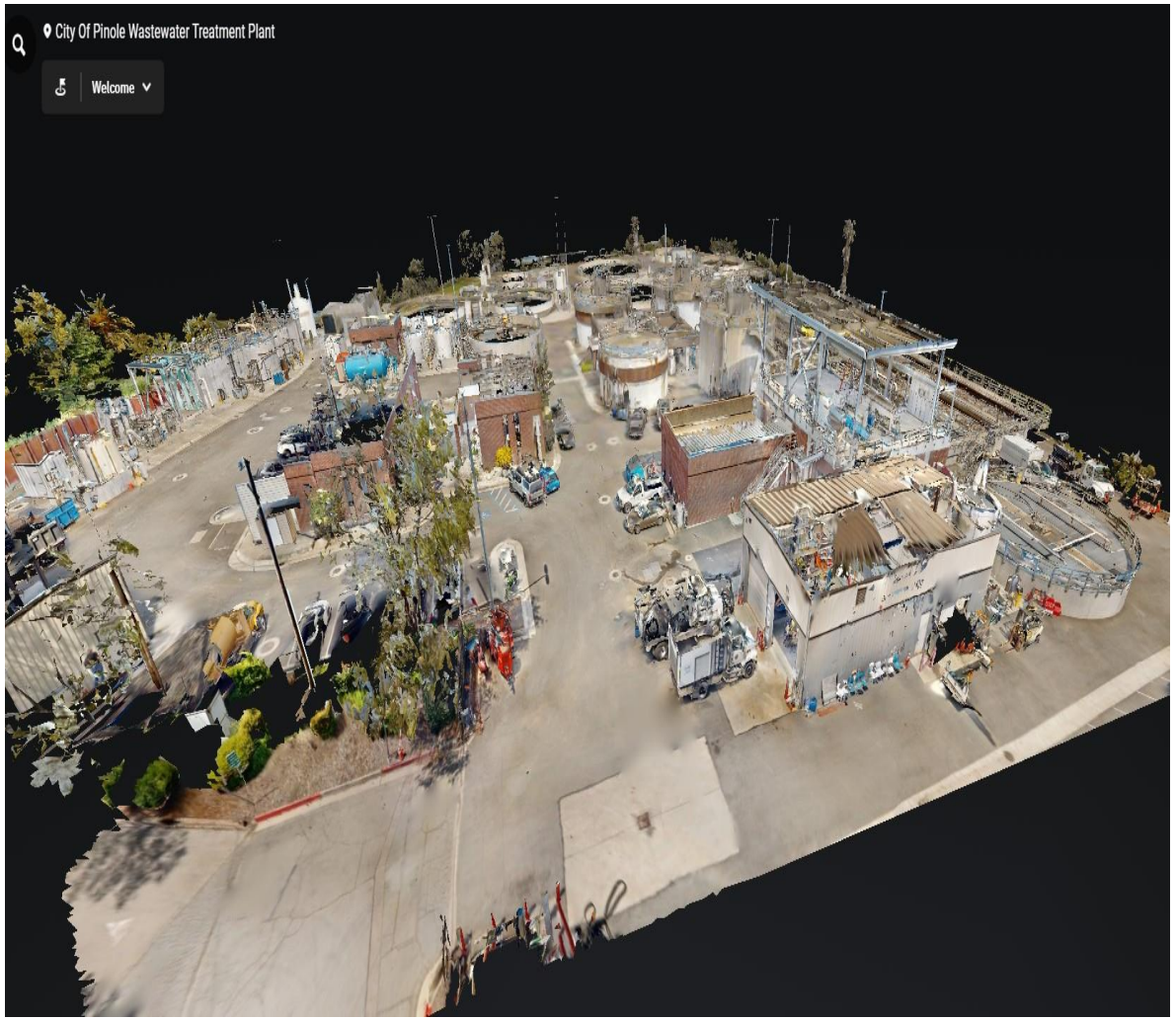
Project Updates

- Effluent Force Main Realignment

Project Updates

- 3D WWTP Tour - https://my.matterport.com/show/?m=XwsKG63ckUb





Position	FY 2023/24	FY 2024/25
INTERN	0.48	0.48
LABORATORY ANALYST II	1.00	1.00
LABORATORY TECHNICIAN I	1.00	1.00
MAINTENANCE MECHANIC	1.00	1.00
OPERATOR	1.00	1.00
OPERATOR	1.00	1.00
OPERATOR	1.00	1.00
OPERATOR	1.00	1.00
SENIOR MAINTENANCE MECHANIC	1.00	1.00
WWTP MANAGER	1.00	1.00
WWTP OPERATION SUPERVISOR	1.00	1.00
WWTP SENIOR OPERATOR	1.00	1.00
Total FTE	**11.48**	**11.48**

Budget Worksheet
Fund: 500 - Sewer Enterprise Fund (Div 641)
Proposed Fiscal Year (FY) 2024/25 Proposed Budget

	Account	FY 2024/25 Operating	FY 2024/25 Capital	Total	Notes
Category: 40 - SALARIES AND WAGES					
	40101 - Salary & Wages/Full Time	$ 1,375,075.00		$ 1,375,075.00	
	40102 - Salary & Wages/Part Time	15,808.00		15,808.00	
	40103 - Salary & Wages/Vacation Leave	3,340.00		3,340.00	
	40108 - Salary & Wages/Longevity Pay	6,307.00		6,307.00	
	40201 - Overtime	34,500.00		34,500.00	
	40202 - FLSA Overtime	1,887.00		1,887.00	
	40302 - Other Pay/Stand By Pay	16,605.00		16,605.00	
	40307 - Other Pay/Education Incentive	6,420.00		6,420.00	
	40311 - Other Pay/Cell Phone	4,500.00		4,500.00	
	40312 - Other Pay/Safety Equip	2,400.00		2,400.00	
Category: 40 - SALARIES AND WAGES Total:		**1,466,842.00**	**-**	**1,466,842.00**	
Category: 41 - EMPLOYEE BENEFITS					
	41001 - Emp Benefits/Medical-Active	223,618.00		223,618.00	
	41002 - Emp Benefits/Dental	12,645.00		12,645.00	
	41003 - Emp Benefits/Vision Care	2,530.00		2,530.00	
	41004 - Emp Benefits/PERS Retirement	362,627.00		362,627.00	
	41005 - Emp Benefits/Employee Assistance Prg	513.00		513.00	
	41007 - Emp Benefits/Life-ADD	1,125.00		1,125.00	
	41008 - Emp Benefits/Long Term Disability	2,897.00		2,897.00	
	41009 - Emp Benefits/Workers Comp	92,121.00		92,121.00	
	41010 - Emp Benefits/FICA - Medicare	21,269.00		21,269.00	
	41011 - Emp Benefits/FICA - Soc Sec	980.00		980.00	
	41012 - Emp Benefits/Unemployment Insurance	1,446.00		1,446.00	
Category: 41 - EMPLOYEE BENEFITS Total:		**721,771.00**	**-**	**721,771.00**	
Category: 42 - PROFESSIONAL/ADMINISTRATIVE SERVICES					
	42101 - Prof Svcs/Professional Service	125,814.00		125,814.00	
	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:		**416,814.00**	**-**	**416,814.00**	
Category: 43 - OTHER OPERATING EXPENSES					
	43102 - Utilities/Water	10,000.00		10,000.00	
	43103 - Utilities/Electicity & Power	775,000.00		775,000.00	
Category: 43 - OTHER OPERATING EXPENSES Total:		**785,000.00**	**-**	**785,000.00**	
Category: 44 - MATERIALS AND SUPPLIES					
	44301 - Other Mat & Sup/Fuel	20,000.00		20,000.00	
	44302 - Other Materials Supp/Sludge Removal	300,000.00		300,000.00	
	44303 - Other Materials Supp/Chemicals	780,000.00		780,000.00	
	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	33,000.00		33,000.00	
Category: 44 - MATERIALS AND SUPPLIES Total:		**1,562,000.00**	**-**	**1,562,000.00**	
Category: 46 - INTERFUND/INTERDEPARTMENTAL CHARGES					
	46122 - Admin Debits	288,377.00		288,377.00	
	46124 - IS Charges	70,069.16		70,069.16	
	46126 - Legal Charges	15,000.00		15,000.00	
	46201 - Insurance/General Liability	95,542.00		95,542.00	
Category: 46 - INTERFUND/INTERDEPARTMENTAL CHARGES Total:		**468,988.16**	**-**	**468,988.16**	

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:			
					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	
					SS2404 WPCP Boiler Replacement		New FY 26-27	$ 660,000.00
					SS2403 WPCP Centrifuge Replacement		New FY 27-28	$ 990,000.00
					SCADA System Upgrade	$ 45,000	Carryforward	
					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	
	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)	**$ 5,421,415**	**$ 1,295,000**	**$ 6,716,415**				
	Hercules Share of Costs (50% of total expenses)			**$ 3,358,208**				

SS2404 - WPCP Boiler Replacement

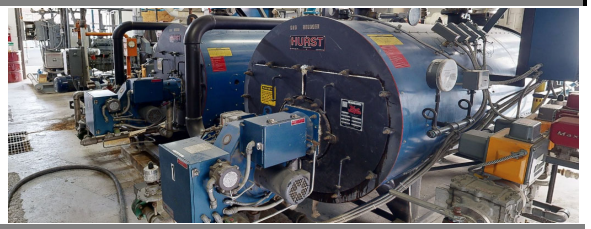
Functional Area : Parks | **Project Origin** | **Priority Score**

Type of CIP	Budget	Unappropriated Subsequent Years				
☐ New ☐ Expansion ☐ Replacement ☐ Renovation ☐ Land/Row Acq. Required ☐ Rehabilitation	**Year 1 FY 2024-25**	**Year 2 FY 2025-26**	**Year 3 FY 2026-27**	**Year 4 FY 2027-28**	**Year 5 FY 2028-29**	**Estimated Project Life cycle cost**
Estimated Expenditures to-date	**$ -**	**$ -**	**$ 660,000**	**$ -**	**$ -**	**$ 660,000**

Project Start 7/1/2026 **Estimated Completion** 6/30/2027

Description

Current Boiler was put in service in 2007 and may need replacement at the end of it's service life.



History, Status, or Impact if Delayed

General Plan Goals/Policies

Summary of Capital Cost

	Budget	Projected Budget				Project Estimate
USE(S)	**FY 2024-25**	**FY 2025-26**	**FY 2026-27**	**FY 2027-28**	**FY 2028-29**	**FY 2024-2029**
Construction			$ 600,000			$ 600,000
Contingency			$ 60,000			$ 60,000
TOTAL USES	**$ -**	**$ -**	**$ 660,000**	**$ -**	**$ -**	**$ 660,000**
SOURCE(S)						
500 - Sewer Enterprise Fun			$ 660,000			$ 660,000
TOTAL FUNDS	**$ -**	**$ -**	**$ 660,000**	**$ -**	**$ -**	**$ 660,000**

SS2403 - WPCP Centrifuge Replacement

Functional Area : Sanitary Sewer | **Project Origin** : Staff Recommendation | **Priority Score**

Type of CIP	Budget	Unappropriated Subsequent Years				
[ ] New [ ] Expansion [X] Replacement [ ] Renovation [ ] Land/Row Acq. Required [ ] Rehabilitation	Year 1 FY 2024-25	Year 2 FY 2025-26	Year 3 FY 2026-27	Year 4 FY 2027-28	Year 5 FY 2028-29	Estimated Project Life cycle cost
Estimated Expenditures to-date	$ -	$ -	$ -	$ 990,000	$ -	$ 990,000

Project Start : 7/1/2027 | **Estimated Completion** : 6/30/2028

Description

Anticipated end of life for equipment, may need replacement.

History, Status, or Impact if Delayed

General Plan Goals/Policies

Summary of Capital Cost

	Budget	Projected Budget				Project Estimate
USE(S)	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2024-2029
Construction				$ 900,000		$ 900,000
Contingency				$ 90,000		$ 90,000
TOTAL USES	$ -	$ -	$ -	$ 990,000	$ -	$ 990,000
SOURCE(S)						
500 - Sewer Enterprise Fund				$ 990,000		$ 990,000
TOTAL FUNDS	$ -	$ -	$ -	$ 990,000	$ -	$ 990,000

SS2002 - WATER POLLUTION CONTROL PLANT LAB REMODEL

Functional Area	: Sanitary Sewer	**Project Origin**	: Regulatory Requirement	**Priority Score** 49

Type of CIP		**Budget**	**Unappropriated Subsequent Years**				
[ ] New [ ] Replacement [ ] Land/Row Acq. Required [ ] Rehabilitation [ ] Expansion [X] Renovation		**Year 1 FY 2024-25**	**Year 2 FY 2025-26**	**Year 3 FY 2026-27**	**Year 4 FY 2027-28**	**Year 5 FY 2028-29**	**Estimated Project Life cycle cost**
Estimated Expenditures to-date	$ -	**$ 100,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 100,000**

Project Start 7/1/2024 **Estimated Completion** 6/30/2025

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

Summary of Capital Cost

	Budget	**Projected Budget**				**Project Estimate**
USE(S)	**FY 2024-25**	**FY 2025-26**	**FY 2026-27**	**FY 2027-28**	**FY 2028-29**	**FY 2024-2029**
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**

SS2101 - SECONDARY CLARIFIER REHABILITATION

Functional Area	: Sanitary Sewer		**Project Origin**	: End of life cycle		**Priority Score**	46
Type of CIP		**Budget**	**Unappropriated Subsequent Years**				
[ ] New [ ] Expansion [X] Replacement [ ] Renovation [ ] Land/Row Acq. Required [ ] Rehabilitation		**Year 1 FY 2024-25**	**Year 2 FY 2025-26**	**Year 3 FY 2026-27**	**Year 4 FY 2027-28**	**Year 5 FY 2028-29**	**Estimated Project Life cycle cost**
Estimated Expenditures to-date	$ -	**$ 425,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 425,000**
Project Start	7/1/2024				**Estimated Completion**	6/30/2025	

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

Summary of Capital Cost

	Budget	**Projected Budget**				**Project Estimate**
USE(S)	**FY 2024-25**	**FY 2025-26**	**FY 2026-27**	**FY 2027-28**	**FY 2028-29**	**FY 2024-2029**
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**

SS2203 - EFFLUENT OUTFALL

Functional Area	: Sanitary Sewer		**Project Origin**	: Regulatory Requirement		**Priority Score**	52
Type of CIP		**Budget**	**Unappropriated Subsequent Years**				
[ ] New [X] Expansion [ ] Replacement [ ] Renovation [ ] Land/Row Acq. Required [X] Rehabilitation		**Year 1 FY 2024-25**	**Year 2 FY 2025-26**	**Year 3 FY 2026-27**	**Year 4 FY 2027-28**	**Year 5 FY 2028-29**	**Estimated Project Life cycle cost**
Estimated Expenditures to-date	$ -	**$ 150,000**	**$ 1,000,000.00**	**$ 2,000,000.00**	**$ -**	**$ -**	**$ 3,150,000**
Project Start	7/1/2024				**Estimated Completion**	6/30/2025	

Description

The Effluent Outfall project is intended to reduce pressure in the effluent 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

Summary of Capital Cost

	Budget	Projected Budget				Project Estimate
USE(S)	**FY 2024-25**	**FY 2025-26**	**FY 2026-27**	**FY 2027-28**	**FY 2028-29**	**FY 2024-2029**
Design	$ 135,000					
Construction		$ 900,000	$ 1,800,000			$ 2,700,000
Contingency	$ 15,000	$ 100,000	$ 200,000			$ 315,000
TOTAL USES	**$ 150,000**	**$ 1,000,000**	**$ 2,000,000**	**$ -**	**$ -**	**$ 3,150,000**
SOURCE(S)						
500 - Sewer Enterprise Fund	$ 150,000	$ 1,000,000	$ 2,000,000			$ 3,150,000
TOTAL FUNDS	**$ 150,000**	**$ 1,000,000**	**$ 2,000,000**	**$ -**	**$ -**	**$ 3,150,000**