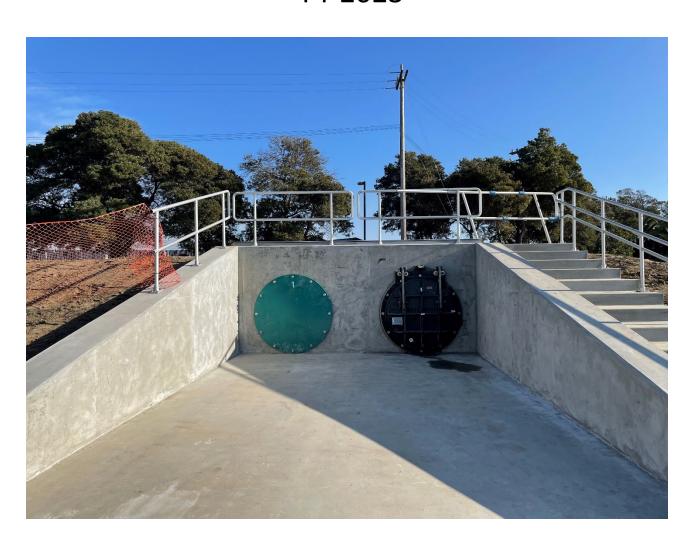
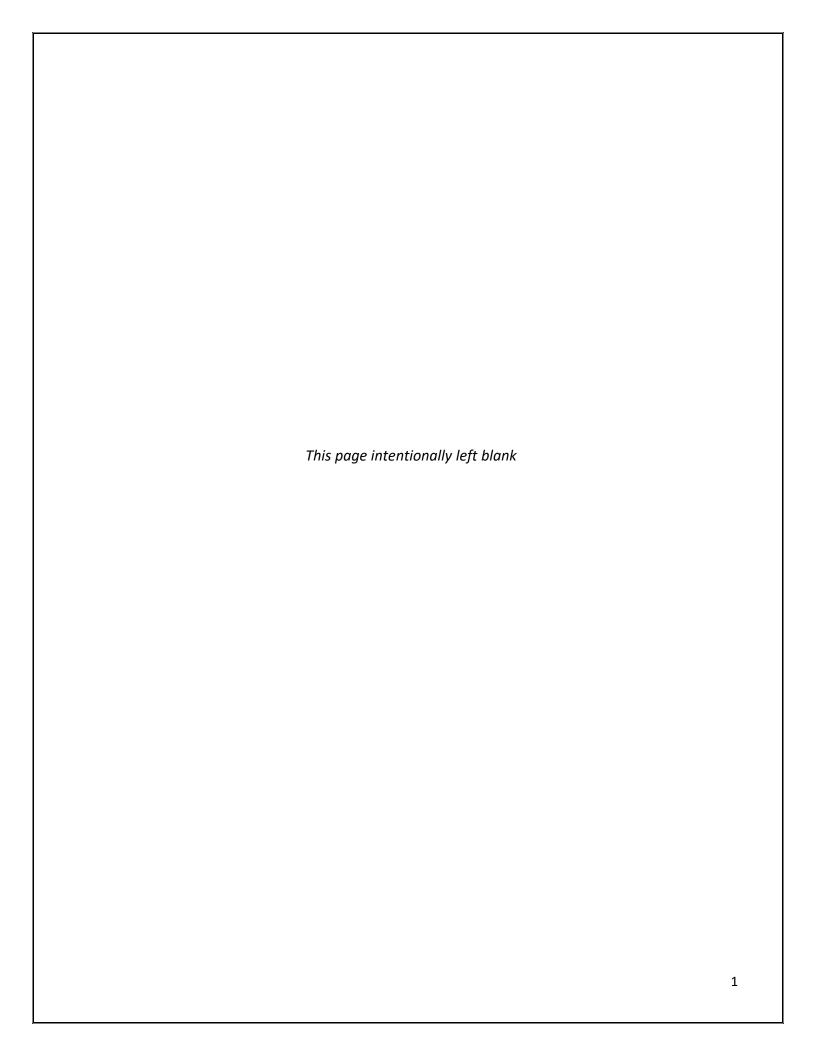


# **Union Sanitary District**

Union City, California

Adopted Operating and CIP Budget FY 2023





# **INTRODUCTION**



Gas Lance Mixing Header – Digester 7 Cover Picture: Emergency Outfall Structure at the Old Alameda Creek

### **Table of Contents**

ľ	Table of Contents	3
	Board of Directors	5
	General Manager Budget Message	6
Fi	Financial Section	
	Budget Summary All Funds	11
	Combined Budget by Fund	13
	Revenues	14
	Expenditures	15
	Operating Expenses	16
	Internal Funds	17
	Debt	19
	Special Projects	20
	Annual Purchases Exceeding \$100,000	22
F	Fund Balance	
	Fund Balances	25
С	Capital Improvement Plan	
	CIP Plan	29
	Project Summary Chart	30
	Project Descriptions	33
4	About USD	
	About USD	41
	The Communities We Serve	41
	Service Area Map	43
3	Budget Document & Process	
	Budget Process	45
	Budget Reporting	46
	Financial Statement Reporting	46

### **Other Information**

	Fee History	49
	Flow Data	50
	Biosolids	51
	Full Time Equivalents	52
	Ten Principal Industrial Ratepayers	53
	Miscellaneous Statistics	54
P	Appendix	
	Principal Officers	57
	Organizational Chart	58
	Vision Mission Statement	59
	Detailed 20 Year CIP	61

# **Board of Directors**



Tom Handley



Pat Kite



Manny Fernandez



Anjali Lathi



Jennifer Toy



Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy *Attorney* 

**MEMO TO:** Board of Directors - Union Sanitary District

**FROM:** Paul R. Eldredge, General Manager/District Engineer

**SUBJECT:** Fiscal Year 2022/2023 Adopted Operating and CIP Budget

Union Sanitary District (USD) staff is pleased to present the adopted annual budget for Fiscal Year (FY) 2023 to the Board of Directors. This budget, covering the period from July 1, 2022 through June 30, 2023, was developed based on direction provided by the Board of Directors.

#### **District Highlights**

The District continues to focus on the operation and maintenance of its infrastructure and assets, capital project construction, planning, and effective use of technology. The District reports the following notable items that will be part of the budget for FY 2023:

<u>Enhanced Treatment & Site Upgrade Project</u> – The District is embarking on the ETSU Phase 1 Group of Projects as part of an overall Program to support the next 20 to 40 years of operation. The key drivers for ETSU Phase 1 projects include addressing aging infrastructure, improving water quality in the San Francisco Bay through nutrient removal upgrades, and hardening of infrastructure to support resiliency efforts to manage wet weather events and continuing to provide USD's critical services without interruption. The first group of projects is underway. These include improvements to the aeration basins and relocation of operations, maintenance, and administrative facilities. Design of Phases 1B and 1C are ongoing. It is currently anticipated that construction will continue through 2028 for the various phases.

<u>Project Financing</u> – As part of the ETSU Phase I project mentioned above, the District was able to secure \$249 million in low cost EPA Water Infrastructure Finance and Innovation Act (WIFIA) financing in December of 2021. These funds will account for 49% of the total project costs. In addition to the WIFIA financing, the District issued the 2021A bonds for \$110 million in October of

2021. The Districts is currently waiting to hear if it will be successful in its application to the State for SRF financing to cover the balance of the ETSU Phase I project.

<u>Stewardship and Service</u> - The District continued its record of outstanding stewardship and service. Once again, USD received the Platinum Award from the National Association of Clean Water Agencies for Peak Performance for operating without exceeding the limits or conditions of the District's permit. This is a tribute to the outstanding work by District Operations and Maintenance teams. The District continues to average less than one spill per hundred miles of pipeline per year, ranking the District among the best in the State, while doing so in a very cost-effective manner.

#### **Financial State of the District**

The District continues to exercise fiscal prudence when considering how to best manage increasing expenses with the least impact possible on the rate payers. A complex financial model is utilized to run a multitude of "what if" scenarios. Scenario-based modeling allows the District to analyze different financing plan scenarios to assist the District in making sound financial decisions on future operating and infrastructure needs and the long-term sustainability of prospective policies and programs. It is because of this cautionary approach that the District has continued to keep its rates as low as possible and remain financially stable.

<u>Revenue</u> - Sewer Service Charges (SSC) are expected to increase by \$2.2 million in FY 2023 to \$77.0 million. FY 2022 SSC revenues included \$4.1 million of deferred revenue from FY 2021. Capacity fees are expected to increase by \$2.5 million or 50.9% over FY 2022.

<u>Expenditures</u> - Total District expenditures for the coming fiscal year are projected to increase by \$25.8 million or 23.0%. Operating expenses are anticipated to increase by \$3.6 million or 7.7%. Within the operating category, Salaries and Benefits are expected to increase \$1.6 million or 5.0% Increases are primarily due to negotiated increases to salaries and the addition of a Limited Duration Planner Scheduler in the Facilities and Maintenance Department to assist with the impacts of the ETSU project on plant operations. Continued increases in pension and health insurance rates are also factors.

For FY 2023 the District is seeing increases in chemicals, insurance costs, utilities, contractor services, software maintenance and District wide parts and materials. The District continues to find ways to reduce costs through planning and wise stewardship.

The Capital Improvement Program is budgeted to increase \$25.6 million or 59.4% over FY 2022. This is the third year of higher capital costs as the District enters into a ten year \$847 million capital program. Capital project spending will continue to focus on rehabilitation and replacement of key elements of the wastewater treatment plant, transport and collections system.

In keeping with the Districts continued efforts toward prudent fiscal planning, the creation of a 115 Pension Trust was adopted by the Board in FY 2022 with a budgeted contribution of \$3 million. The adopted budget for FY 2023 plans for an additional \$3 million contribution in FY 2023. It is currently

estimated that this long term fiscal planning tool will save the District over \$30 million in interest costs over the next 25 years.

Special Projects Fund expenditures will decrease by \$722,104 from FY 2022. Some of the more significant special projects are the continued set aside of \$1.5 million for property acquisitions as opportunities become available, \$350,000 for a Digester Efficiency Evaluation, and \$205,000 for an Energy Resilience Study.

#### **Balanced Budget, Reserves and Rates**

USD has long operated with a balanced budget and FY 2023 is no exception. District reserves continue to be stable. Although funds will be taken from both the Sewer Service Fund and Capacity Fund reserves in FY 2023, these are planned capital activities and are part of the long term capital investment strategy of the District.

#### **Conclusion**

Given the past fiscal stewardship practiced by the District's Board and staff, the District is well poised to take on the adopted 20 year capital plan that will continue to make Union Sanitary District a leader in wastewater management.

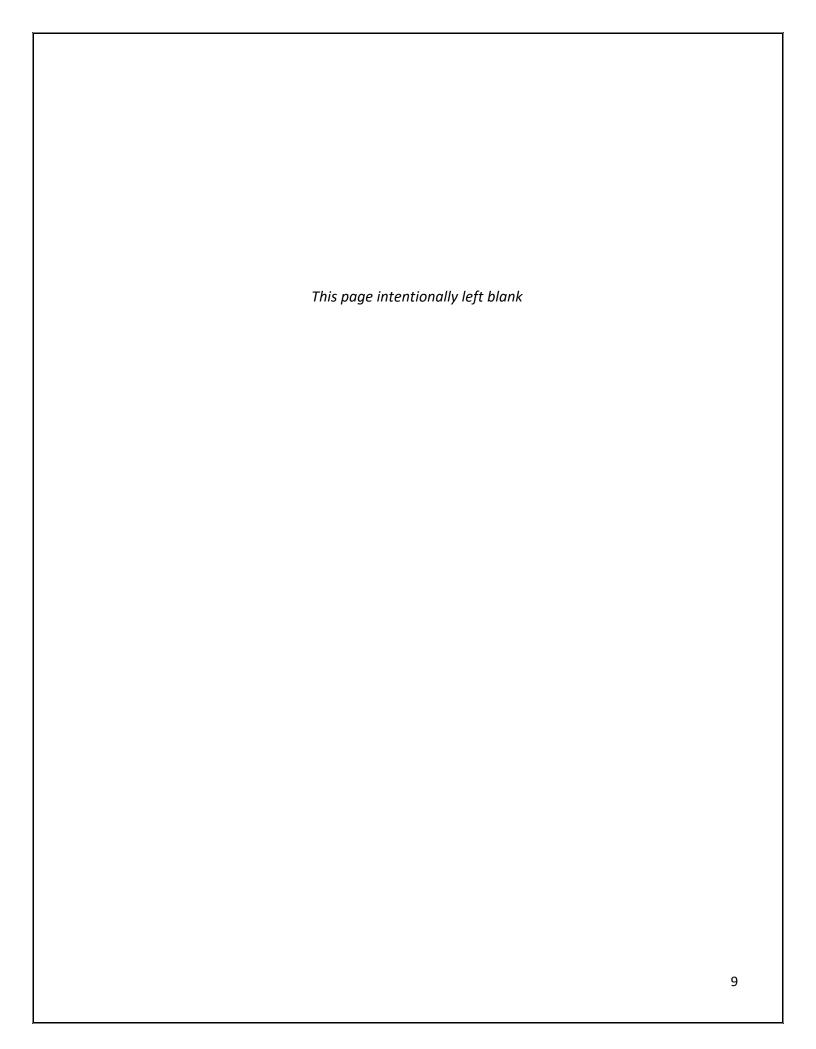
I would like to express my appreciation to all the employees of the District whose hard work is not taken for granted and whose dedication is reflected in the daily delivery of services to the District's customers. The District is firmly committed to meeting every challenge brought forth through innovative and creative problem-solving and embracing continual improvement in all that it does.

Respectfully Submitted,

—DocuSigned by:
Paul R. Eldredge

-91F3D7DCBD12473...

Paul R. Eldredge, P.E. General Manager, District Engineer Union Sanitary District



# **FINANCIAL SECTION**



Emergency Outfall Structure at the Old Alameda Creek

### Budget Summary – All Funds

					Adopted		
	Actual *	Actual *	Budget	Projected	Budget	Variance to	%
	FY 19/20	FY 20/21	FY 21/22	FY 21/22	FY 22/23	21/22 Budget	Change
Revenues							
Sewer Service Charge	\$ 60,216,148	\$ 62,142,806	\$ 74,716,000	\$ 74,110,922	\$ 76,965,000	\$ 2,249,000	3.0%
Capacity Fees	14,179,464	9,358,209	4,949,820	7,213,586	7,467,000	2,517,180	50.9%
Work Group Revenues	1,285,438	1,315,019	1,260,900	1,227,700	1,234,500	(26,400)	-2.1%
Interest	3,115,507	1,263,164	1,512,000	1,185,000	1,531,000	19,000	1.3%
Other Revenues	174,673	17,720	50,000	1,608,406	-	(50,000)	-100.0%
Net Loan Proceeds	37,000,000	-	110,000,000	110,000,000	-	(110,000,000)	-100.0%
Total Revenues	115,971,230	74,096,918	192,488,720	195,345,614	87,197,500	(105,291,220)	-54.7%
Expenditures by Type							
Operating	41,518,799	42,762,626	47,020,403	46,114,594	50,622,850	3,602,447	7.7%
Internal Service	2,091,781	2,010,132	5,886,401	5,694,238	6,178,500	292,099	5.0%
Debt Service	3,584,921	4,387,915	12,019,092	6,876,136	9,017,480	(3,001,612)	-25.0%
Special Projects	1,288,761	714,462	3,960,104	2,207,081	3,238,000	(722,104)	-18.2%
Capital Projects	12,695,833	33,118,927	43,189,200	32,776,347	68,830,200	25,641,000	59.4%
Total Expenditures	61,180,095	82,994,062	112,075,200	93,668,396	137,887,030	25,811,830	23.0%
Revenues Over (under) Expenditur	\$ 54,791,135	\$ (8,897,144)	\$ 80,413,520	\$101,677,218	\$ (50,689,530)	\$ (131,103,050)	-163.0%

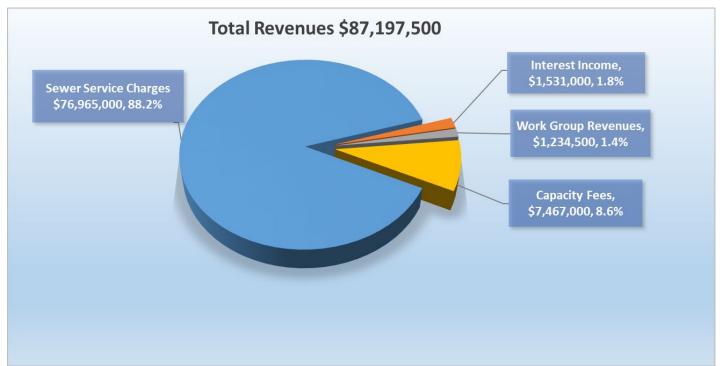
EXPENDITURES BY OPERATING GROUP												
Board of Directors	\$ 141,278	\$ 141,163	\$ 187,043	\$ 171,793	\$ 189,942	\$	2,899	1.5%				
General Manager	919,583	991,836	1,194,988	1,352,101	1,522,281	\$	327,293	27.4%				
Business Services***	9,910,103	10,163,040	21,905,486	16,697,003	18,662,225	\$	(3,243,261)	-14.8%				
Collection Services	7,233,990	7,643,479	7,835,953	8,013,733	8,910,580	\$	1,074,627	13.7%				
Technical Services	6,577,565	6,771,336	7,208,954	7,206,590	7,361,274	\$	152,320	2.1%				
Treatment & Disposal Services	13,020,113	13,937,436	15,921,122	15,263,508	17,837,232	\$	1,916,110	12.0%				
Fabrication, Maint & Construction	9,392,869	9,512,383	10,672,350	9,980,240	11,335,296	\$	662,946	6.2%				
Capital Projects **	12,695,833	33,118,927	43,189,200	32,776,347	68,830,200	\$	25,641,000	59.4%				
Special Projects **	1,288,761	714,462	3,960,104	2,207,081	3,238,000	\$	(722,104)	-18.2%				
Total by Operating Group	\$ 61,180,095	\$ 82,994,062	\$112,075,200	\$ 93,668,396	\$137,887,030	\$	25,811,830	23.0%				

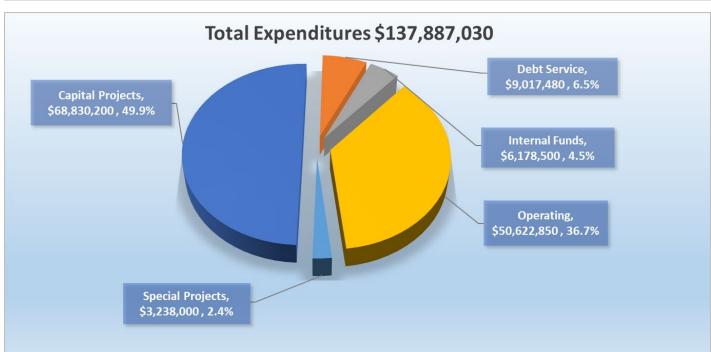
 $<sup>\</sup>ensuremath{^{*}}$  Actual numbers based on modified accrual basis to reflect budget accounting.

 $<sup>\</sup>hbox{$^{**}$ Capital Projects and Special Projects are managed by multiple departments on a collaborative basis.}$ 

<sup>\*\*\*</sup> Business Services handles debt payments and pension management.

### District Wide Revenue & Expenditures





### Combined Budget by Fund Sewer Service & Capacity Funds

	Sewer Service	Capacity	000000000000000000000000000000000000000
	Fund	Fund	Total
Revenues			
Sewer Service Charge	\$ 76,965,000	\$ -	\$ 76,965,000
Capacity Fees	-	7,467,000	7,467,000
Work Group Revenues	1,234,500	-	1,234,500
Interest	564,000	967,000	1,531,000
Other Revenues	-	-	-
Net Loan Proceeds	-	-	-
Total Revenues	78,763,500	8,434,000	87,197,500
Expenditures			
Operating	50,622,850	-	50,622,850
Internal Funds	6,178,500	-	6,178,500
Debt Service	4,871,790	4,145,690	9,017,480
Special Projects	3,238,000	-	3,238,000
Capital Projects	53,206,200	15,624,000	68,830,200
Total Expenditures	118,117,340	19,769,690	137,887,030
Revenues Over (less than) Expenditures	\$ (39,353,840)	\$ (11,335,690)	\$ (50,689,530)

Revenues Over (less than) Expenditures	\$ (39,353,840) \$ (11,335,690) \$ (50,689,530

EXPENDITURES BY OPERATING GROUP												
Board of Directors	\$ 189,942	\$ -	\$ 189,942									
General Manager	1,522,281	_	1,522,281									
Business Services**	14,516,535	4,145,690	18,662,225									
Collection Services	8,910,580	-	8,910,580									
Technical Services	7,361,274	-	7,361,274									
Treatment & Disposal Services	17,837,232	_	17,837,232									
Fabrication, Maint & Construction	11,335,296	_	11,335,296									
Capital Projects *	53,206,200	15,624,000	68,830,200									
Special Projects *	3,238,000	_	3,238,000									
Total by Operating Group	\$ 118,117,340	\$ 19,769,690	\$ 137,887,030									

<sup>\*</sup> Capital Projects and Special Projects are managed by multiple departments on a collaborative basis.

<sup>\*\*</sup> Business Services manages all debt payments for the District.

### **REVENUES**

					Adopted		
	Actual *	Actual *	Budget	Projected	Budget	Variance to	%
	FY 19/20	FY 20/21	FY 21/22	FY 21/22	FY 22/23	21/22 Budget	Change
Revenues							
Sewer Service Charge	\$ 60,216,148	\$62,142,806	\$ 74,716,000	\$ 74,110,922	\$76,965,000	\$ 2,249,000	3.0%
Capacity Fees	14,179,464	9,358,209	4,949,820	7,213,586	7,467,000	2,517,180	50.9%
Work Group Revenues	1,285,438	1,315,019	1,260,900	1,227,700	1,234,500	(26,400)	-2.1%
Interest	3,115,507	1,263,164	1,512,000	1,185,000	1,531,000	19,000	1.3%
Other Revenues	174,673	17,720	50,000	1,608,406	-	(50,000)	-100.0%
Net Loan Proceeds	37,000,000	-	110,000,000	110,000,000	-	(110,000,000)	-100.0%
Total Revenues	\$ 115,971,230	\$74,096,918	\$192,488,720	\$195,345,614	\$87,197,500	\$ (105,291,220)	-54.7%

<sup>\*</sup> Actual numbers based on modified accrual basis to reflect budget accounting.

Sewer Service Charges - The principal revenue source for the Sewer Service Fund is the annual Sewer Service Charges (SSC), which are projected to <u>increase</u> over the prior year budget by \$2,249,000 or 3.0%. FY 2022, SSC revenues included \$4.1 million of deferred revenue from FY 2021. Absent the deferred revenue, the increase year over year would be \$6,329,283 or 8.9%. Single Family Dwelling (SFD) rates will increase from \$490.93 in FY 2022 to \$530.21 in FY 2023. Similarly, the annual Multifamily Dwelling rate will increase from \$432.63 in FY 2022 to \$467.24 in FY 2023. Residential rates account for approximately 77% of total sewer service charge revenues. For non-residential customers, rates are calculated annually using flow based on water usage and sewage strength.

The District collects 97% of the sewer service charge revenue on the Teeter plan through the Alameda County property tax bill. As a result, there has been no substantive impact to revenue collection for the District due to Covid-19.

<u>Capacity Fees</u> - The revenue source for the Capacity Fund is Capacity Fees, which are expected to <u>increase</u> by \$2,517,180 or 50.9% from the prior year budget. These revenues vary depending on development in the service area. These fees are collected in accordance with the provisions of California Assembly Bill (AB) 1600 and are intended to mitigate the impacts of new development. In the case of the District, these fees are collected from new developments as a requirement of connecting to the sewer system. As such, they can only be used for capital projects that preserve or increase the system's capacity.

<u>Work Group Revenues</u> - These revenues consist of field inspection fees, plan check fees, permits, external work orders, and services provided to the City of Fremont's Urban Runoff program. Because these items tend to vary based on external demands, anticipated revenues are typically estimated in a conservative manner. For FY 2023 these revenues are expected to have a small <u>decrease</u> of \$26,400 or 2.1% compared to the prior year budget.

<u>Interest Revenues</u> – Investment earnings are expected to <u>increase</u> by \$19,000 or 1.3% to the prior year budget. This slight increase reflects the ongoing sluggish investment environment.

### **EXPENDITURES**

ALL FUNDS SUMMARY											
	Actual * FY 19/20	Actual * FY 20/21	Budget FY 21/22	Projected FY 21/22	Adopted Budget FY 22/23	Variance to 21/22 Budget	% Change				
Expenditures by Type											
Operating	\$ 41,518,799	\$ 42,762,626	\$ 47,020,403	\$ 46,114,594	\$ 50,622,850	\$ 3,602,447	7.7%				
Internal Service	2,091,781	2,010,132	5,886,401	5,694,238	6,178,500	292,099	5.0%				
Debt Service	3,584,921	4,387,915	12,019,092	6,876,136	9,017,480	(3,001,612)	-25.0%				
Special Projects	1,288,761	714,462	3,960,104	2,207,081	3,238,000	(722,104)	-18.2%				
Capital Projects	12,695,833	33,118,927	43,189,200	32,776,347	68,830,200	25,641,000	59.4%				
Total Expenditures	61,180,095	82,994,062	112,075,200	93,668,396	137,887,030	25,811,830	23.0%				

	EXPENDITURES BY OPERATING GROUP												
Board of Directors	\$ 141,278	\$ 141,163	\$ 187,043	\$ 171,793	\$ 189,942	\$	2,899	1.5%					
General Manager	919,583	991,836	1,194,988	1,352,101	1,522,281	\$	327,293	27.4%					
Business Services***	9,910,103	10,163,040	21,905,486	16,697,003	18,662,225	\$	(3,243,261)	-14.8%					
Collection Services	7,233,990	7,643,479	7,835,953	8,013,733	8,910,580	\$	1,074,627	13.7%					
Technical Services	6,577,565	6,771,336	7,208,954	7,206,590	7,361,274	\$	152,320	2.1%					
Treatment & Disposal Services	13,020,113	13,937,436	15,921,122	15,263,508	17,837,232	\$	1,916,110	12.0%					
Fabrication, Maint & Construction	9,392,869	9,512,383	10,672,350	9,980,240	11,335,296	\$	662,946	6.2%					
Capital Projects **	12,695,833	33,118,927	43,189,200	32,776,347	68,830,200	\$	25,641,000	59.4%					
Special Projects ** 1,288,7		714,462	3,960,104	2,207,081	3,238,000	\$	(722,104)	-18.2%					
Total by Operating Group	\$ 61,180,095	\$ 82,994,062	\$112,075,200	\$ 93,668,396	\$137,887,030	\$	25,811,830	23.0%					

<sup>\*</sup> Actual numbers based on modified accrual basis to reflect budget accounting.

Overall, District expenditures are expected to increase by \$25.8 million or 23.0%. The following pages discuss the significant change in expenditures for FY 2023, primarily due to increases in capital spending.

<sup>\*\*</sup> Capital Projects and Special Projects are managed by multiple departments on a collaborative basis.

<sup>\*\*\*</sup> Business Services handles debt payments and pension management.

	Operating Expenses								
	Actual FY 19/20	Actual FY 20/21	Budget FY 21/22	Projected FY 21/22	Adopted Budget FY 22/23	Variance to 21/22 Budget	% Change		
Salaries & Benefits									
Salaries	\$ 19,019,548	\$ 20,223,882	\$ 20,024,866	\$ 20,235,857	\$ 20,895,024	\$ 870,158	4.3%		
Pension	5,025,687	5,679,202	6,973,738	6,980,521	7,477,754	504,016	7.2%		
Health Care Benefits	2,969,243	3,127,675	3,919,896	3,919,896	4,091,352	171,456	4.4%		
Workers Compensation	395,340	377,256	360,417	360,417	417,708	57,291	15.9%		
Training	174,798	64,292	340,450	132,200	317,350	(23,100)	-6.8%		
Other	488,684	494,385	599,962	572,210	637,384	37,422	6.2%		
Subtotal Salaries and Benefits	\$ 28,073,300	\$ 29,966,692	\$ 32,219,329	\$ 32,201,101	\$ 33,836,572	\$ 1,617,243	5.0%		
Utilities	2,138,842	2,515,024	2,486,050	2,380,150	2,656,950	170,900	6.9%		
Biosolids	910,169	1,055,800	1,496,000	1,305,000	1,450,000	(46,000)	-3.1%		
Supplies	2,256,859	1,710,078	2,206,940	2,003,020	2,314,610	107,670	4.9%		
Chemicals	2,582,245	2,483,194	2,795,252	2,706,504	4,011,360	1,216,108	43.5%		
Repair & Maintenance	3,397,476	3,490,397	3,689,612	3,591,998	3,830,498	140,886	3.8%		
Other	2,159,908	1,541,441	2,127,220	1,926,821	2,522,860	395,640	18.6%		
Subtotal Other Operating	13,445,499	12,795,934	14,801,074	13,913,493	16,786,278	1,985,204	13.4%		
Total Operating Expenditures	\$ 41,518,799	\$ 42,762,626	\$ 47,020,403	\$ 46,114,594	\$ 50,622,850	\$ 3,602,447	7.7%		

#### **Salaries and Benefits**

District wide, personnel expenses are budgeted to <u>increase</u> \$1,617,243 or 5.0% over the prior year budget. The major items are discussed below:

- <u>Salaries</u> are budgeted to <u>increase</u> \$870,158 or 4.3%. The increase results from, prior year wage agreements, classified scheduled step increases, and one full time limited term position to support ongoing impacts from the ETSU project.
- <u>Pension</u> expenses are budgeted to <u>increase</u> of \$504,016 or 7.2% to the prior year budget based upon rates provided by CalPERS. The District prepays the annual Unfunded Liability Payment in July of each year, rather than paying in 12 monthly installments, generating a cost savings of \$160,000.
- <u>Health Care Benefit</u> costs will <u>increase</u> by \$171,456 or 4.4% over the prior year budget based on premium information provided by the District's health care provider.
- <u>Workers Compensation</u> costs will <u>increase</u> \$57,291 or 15.9%. The Districts experience modification (x-mod) factor increased from .82 to .83. Significant efforts have been undertaken by the District to not only maintain, but to improve safety awareness. This increase is reflective of the current state of the insurance markets.
- <u>Training</u> will <u>decrease</u> by \$23,100 or 6.8% largely due to the lingering impacts of Covid-19 on travel and as well as an emphasis on remote access learning.

• Other salary and benefits costs will <u>increase</u> by \$37,422 or 6.2% to the prior year budget. Other salary and benefit costs consist of Medicare and unemployment taxes, membership fees and certain safety program expenditures.

### **Other Operating Expenditures**

Other Operating expenses are budgeted, in total, to <u>increase</u> \$1,985,204 to the prior year budget. The major items are discussed below:

- <u>Utilities</u> are <u>increasing</u> \$170,900 or 6.9%. PG&E's recent revisions to their rate structure, specifically time of use, is anticipated to have a negative effect on the Districts energy costs.
- <u>Biosolids</u> disposal is <u>decreasing</u> \$46,000 or 3.1%. In 2021, the District conducted an RFP for biosolids hauling resulting in an 18 month contract with 3 one year extensions.
- <u>Supplies</u> are <u>increasing</u> \$107,670 or 4.9%. Costs of supplies and operating parts have been impacted by recent inflationary pressures, resulting in increases in most categories across the District.
- <u>Chemicals</u> are budgeted to <u>increase</u> \$1,216,108 or 43.5%. The main increases are for Hydrogen Peroxide, Hypochlorite and Polymers. These chemicals are used in the treatment of plant flows and for odor controls. The shutdown of one of the two regional manufactures of Hypochlorite has had a significant impact on product costs.
- Repair and Maintenance costs are <u>increasing</u> by \$140,886 or 3.8% to FY 2022. This account varies year over year depending on the anticipated need of plant and equipment maintenance.
- Other expenditures, which consists of rents, professional fees, permits, insurance costs and small asset purchases are budgeted to <u>increase</u> \$395,640 or 18.6% in the aggregate. A detailed analysis shows increases in insurance, contractor services and software maintenance with reductions in certain professional fees and consulting costs.

	INTERNAL FUNDS												
Fund Description	Actual FY 19/20	Actual FY 20/21	Budget FY 21/22	Projected FY 21/22	Adopted Budget FY 22/23	Variance to 21/22 Budget	% Change						
Other Post Employment Benefits - Fund 40	\$1,392,371	\$1,201,193	\$1,421,401	\$1,421,401	1,400,000	\$ (21,401)	-1.5%						
115 Pension Trust - Fund 45	-	-	3,000,000	3,000,000	3,000,000	-	0.0%						
Information Systems Replacement - Fund 60	412,483	502,358	940,000	802,000	1,207,500	267,500	28.5%						
Vehicles & Equip Replacement - Fund 50	42,258	144,181	125,000	160,684	171,000	46,000	36.8%						
Plant and Pump Station Replacement - Fund	244,669	162,400	400,000	310,153	400,000	-	0.0%						
Total	\$2,091,781	\$2,010,132	\$5,886,401	\$5,694,238	\$ 6,178,500	\$ 292,099	5.0%						

Other Post Employment Benefits (OPEB) and Pension 115									
Expenditures									
115 Pension Trust Contribution	\$	3,000,000							
115 OPEB Retiree Medical Trust Contribution		900,000							
Retiree Reimbursement		500,000							
Total	\$	4,400,000							

OPEB expenditures for the District are <u>decreasing</u> \$21,401 or 1.5% to the prior year. The total expenditure consists of two parts. The first is \$500,000 towards the Districts annual ongoing normal costs. The second is a planned \$900,000 contribution to the Districts 115 OPEB Trust. In 2021 the District adopted Pension and OPEB Policy 2095, which in part, sets a goal of maintaining the funding percentage of the plan between 90% and 100%. These additional funds will work toward achieving that policy goal.

Fund 45, 115 Pension Trust, was established in FY 2022 to facilitate the policy discussed in the paragraph above. Similar to OPEB, the long term goal is to increase the funding percentage of the District pension plan. Annually, the Board determines an amount to contribute into a qualified 115 Trust. This Trust accumulates funds, along with the related investment income, to be used for paying future qualified pension expenses. The current budget anticipates a contribution of \$3 million to the Trust in FY 2023. This strategy is anticipated to save the District \$30 million dollars over the next 25 years in pension interest costs.

Renewal & Replacement - Vehicles and Equipment							
M. I. A. I.							
Vehicles							
(2) Pool Vehicles - Pick-up Trucks	\$	146,000					
Utility Cart for TPO		25,000					
Equipment							
No equipment in FY23		-					
Total Vehicles and Equipment	\$	171,000					

For FY 2023 the District is planning on purchasing two pickup trucks for \$146,000 that will be used within the service area. In addition, this budget line item includes \$25,000 for the purchase of an electric utility cart to be used on the plant property.

Renewal & Replacement - Information Systems								
Project/System		Amount						
Small Equipment	\$	398,500						
GIS Improvements 1A - 4		166,000						
Handheld Radios (Replacement of existing Ratios, Qty. 70)		120,000						
HMI Upgrades (SCADA Screen Upgrades)		100,000						
NIST Project		100,000						
Permit Tracking System Replacement		100,000						
Performance Management Software		47,500						
Agenda Management Software		40,000						
Records Management		37,500						
Environmental Compliance Management System/ERM		33,000						
Control Login		20,000						
SCADA Master Plan Standards		20,000						
NeoGov Expansion		15,000						
Single Source Login		10,000						
Total	\$	1,207,500						

The schedule above details the budgeted expenditures for Information Systems. This list changes from year to year depending on the projects and equipment needs of the department.

Renewal & Replacement - Plant and Pump Station									
New Assets (Cogeneration Engine No. 2 heat recovery boiler, Pump									
Station rebuild kits for pumps, new grinders)	\$	250,000							
Unplanned Maintenance/EBDA Pump Station		150,000							
Total	\$	400.000							

The schedule above details the budgeted expenditures for the Plant and Pump Stations. These expenditures are determined based on plant wide assessments conducted each year.

					FY 22/23 Principal & Interest									
		FY		<b>Payments</b>		Payment		Payment		Total				
Debt	Status	Issued	Maturity	FY Start	(	Operating		Operating		Operating		Capacity		Payment
2020A Revenue Bonds	Issued	19/20	2050	19/20	\$	1,933,586	\$	2,563,580	\$	4,497,166				
2021A Revenue Bonds	Issued	21/22	2051	21/22		2,938,204		1,582,110		4,520,314				
				·	\$	4,871,790	\$	4,145,690	\$	9,017,480				

Water Infrastructure Finance and Innovation Act (WIFIA) Loan – In the fall of 2021 the District closed on a \$249 million dollar WIFIA loan to fund a portion of the ETSU project. The District will have eight

years to fully draw down the loan at which time the principal and any capitalized interest will begin repayment.

<u>State Revolving Fund (SRF) Loan</u> – During FY 2022 the District was approved for an SRF loan in the amount of \$33.5 million to fund the Standby Power Generation System Upgrade Project. Construction is anticipated to begin in late FY 2022 with repayment beginning upon completion in in FY 2025.

SPECIAL PROJECT EXPENDITURES									
	Adopted	Estimated			Adopted				
DESCRIPTION	Budget	Actual	Estimated	New \$	Budget				
	FY22	FY22	Carryover	(Provision)	FY23				
Administrative & Regulatory									
Anticipated Biosolids Coalition Membership Dues	\$ 25,000	\$ 25,000	\$ -	\$ 17,000	\$ 17,000				
Anticipated Election Costs	940,104	940,104	-	-	-				
GIS JPA	30,000	30,000	-	30,000	30,000				
Property Acquisition	1,500,000	-	1,500,000	-	1,500,000				
Public Information Program	65,000	65,000	-	65,000	65,000				
Public Outreach Programs	125,000	75,000	50,000	75,000	125,000				
Regional Purified Water Pilot Program Outreach	-	-	-	20,000	20,000				
Subtotal Administrative & Regulatory	\$ 2,685,104	\$ 1,135,104	\$ 1,550,000	\$ 207,000	\$ 1,757,000				
Studies & Other									
Alvarado Basin Capacity and Condition Assessment	\$ -	\$ -	\$ -	\$ 55,000	\$ 55,000				
Alvarado Sub-Surface Investigation (Plant Groundwater Monitoring)	10,000	9,208	792	9,208	10,000				
CIP Front End Specs Update	5,000	-	-	-	-				
Cogen Replacement and Ventilation Study	125,000	87,000	15,000	-	15,000				
Control Box No. 1 Grit Removal Evaluation	-	-	-	150,000	150,000				
Digester 8 Feasibility Study	100,000	52,750	47,250	17,750	65,000				
Digester Efficiency Evaluation (Heat Loop and Gas Lance)	-	-	-	350,000	350,000				
Energy Resiliency Study	100,000	80,000	20,000	185,000	205,000				
Fiscal Model Update (Moved to BS Ops Budget)	30,000	15,000	-	-	-				
Forcemain Condition Assessment	5,000	35,000	-	10,000	10,000				
Forcemain Geotech Investigation at Alameda Creek	30,000	174,294	-	30,000	30,000				
Headworks Degritting	200,000	107,000	90,000	-	90,000				
Irvington Basin MP Update	80,000	106,725	-	-	-				
Local Limits Study	70,000	55,000	15,000	50,000	65,000				
Odor Control Alternatives Study	-	-	-	10,000	10,000				
Odor Control Pilot Study	20,000	20,000	-	-	-				
Project Cost Estimate Evaluation	-	-	-	150,000	150,000				
Pump Stations Asset Condition Assessment	250,000	175,000	75,000	-	75,000				
Sea Level Rise Study Update	150,000	65,000	85,000	15,000	100,000				
Solids Building Potable Water Conversion	-	-	-	-	70,000				
Thermal Dryer Feasibility Study	100,000	90,000	10,000	21,000	31,000				
Subtotal Studies & Other	\$ 1,275,000	\$ 1,071,977	\$ 358,042	\$ 1,052,958	\$ 1,481,000				
Total Special Projects	\$ 3,960,104	\$ 2,207,081	\$ 1,908,042	\$ 1,259,958	\$ 3,238,000				

The special projects fund accounts for expenditures that are outside the year over year operating costs of the District and also do not meet the definition of a capital project. Many of the items are assessments of plant and system conditions or feasibility studies for future capital projects. A discussion of some of the major items follows:

<u>Property Acquisition</u> - Each year the District sets aside funds for property acquisition should one or more properties of interest become available. The primary purpose of property acquisition is for future plant or pump station expansion.

<u>Control Box No. 1 Grit Removal Evaluation</u> - This study will evaluate technologies and modifications for Control Box No. 1 to facilitate a more efficient way to remove grit that is deposited inside the control box as the wastewater flows from the headworks process to the primary clarifiers.

<u>Digester Efficiency Evaluation (Heat Loop and Gas Lance)</u> - This study will assess the existing primary digester heat loop system and evaluate improvements to the system to increase its reliability in providing heat to the primary digestion process. The study will also evaluate the implementation of a gas lance sludge mixing system, incorporated in Primary Digester No. 7, at Primary Digester Nos. 4, 5, and 6, and prepare cost estimates to modify the structural, mechanical, electrical, and instrumentation systems.

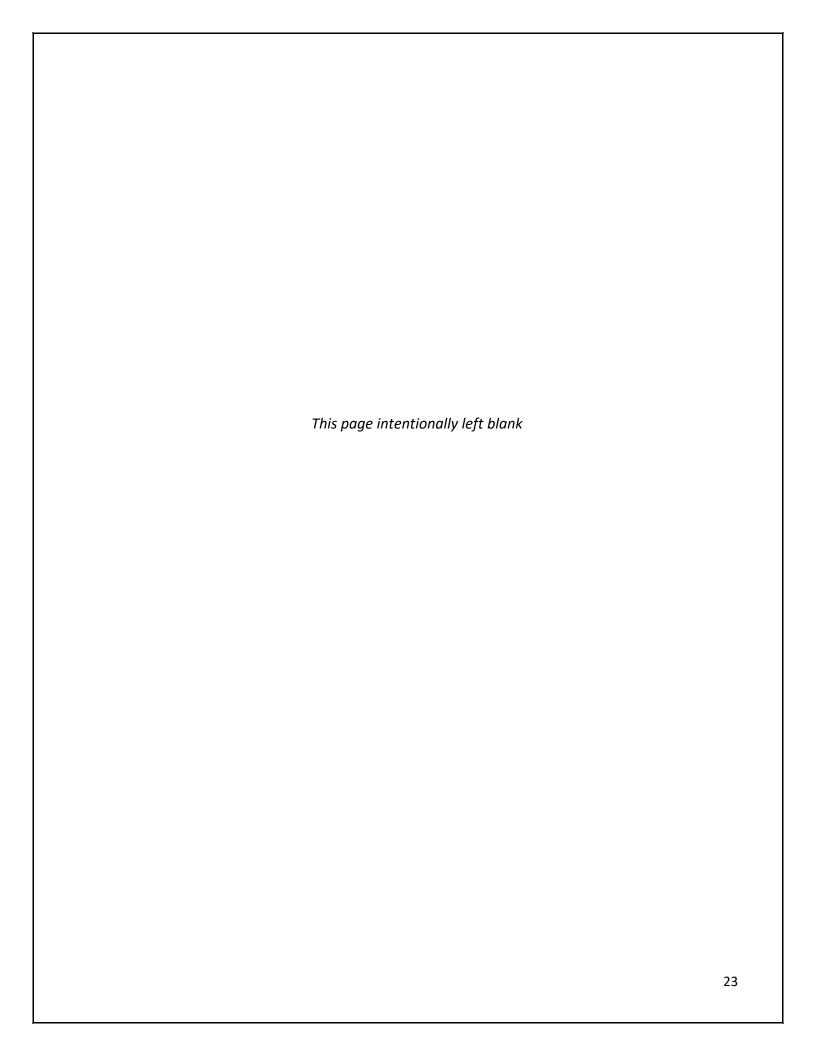
<u>Energy Resiliency Study</u> - This study will evaluate the feasibility of different energy technologies (solar, batteries, and wind turbines) at the Plant, pump stations, lift stations, and other District parcels located in the service area.

<u>Project Cost Estimate Evaluation</u> – This study will update budgets for the projects identified in the 20-year Capital Improvement Program.

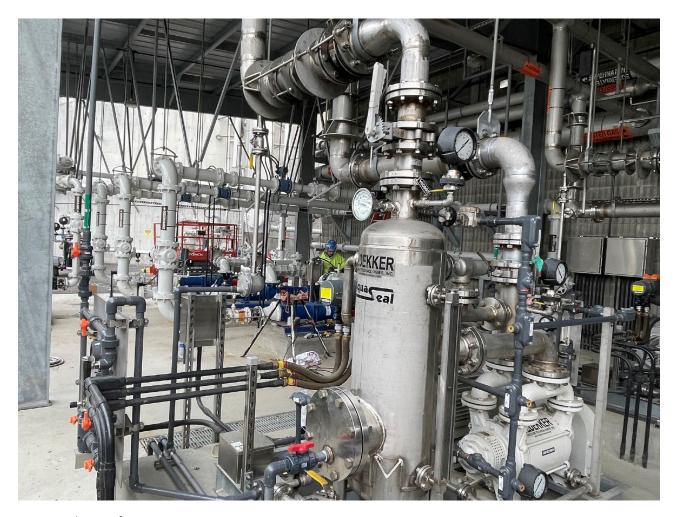
<u>Sea Level Study Update</u> - This study will evaluate the current sea level rise projections and the effect the projections will have on the District's facilities. The study will recommend measures for the District to mitigate the impact.

# Annual Contract Purchases of Supplies, Services and Projects Renewal/Replacement Over \$100,000 for Fiscal Year 22/23

	E	stimated
	E	xpenditure
Supplies:		
Sodium Hypochlorite, 1-Year	\$	1,487,000
Polymer, Emulsion, 2-Year Contract with 3 Optional 1-Year Renewals		730,000
Hydrogen Peroxide, 1-Year		685,000
Ferrous Chloride, 1-Year		580,000
Polymer, Mannich, 2-Year Contract with 3 Optional 1-Year Renewals		142,860
Total Supplies	\$	3,624,860
	ı	
Comingo		
Services: CalPERS Retirement	\$	7 407 754
	>	7,407,754
Series 2021A - Annual Debt Service on Bonds		4,520,314
Series 2020A - Annual Debt Service on Bonds		4,497,166
CalPERS Medical		4,112,430
115 Pension Trust Contribution		3,000,000
PG&E - Alvarado Site (\$1,890,000), Newark P.S. (\$255,000) and Irvington P.S. (\$100,000)		2,245,000
EBDA		1,721,062
Biosolids Contract		1,450,000
115 OPEB Retiree Medical Trust Contribution		900,000
Insurance (Property & Contents, Fleet, General Liability, Bonding)		536,000
Primary Digester Cleaning		250,000
Gas Media, 2-Year Contract with 3 Optional 1-Year Renewals		180,000
DGS Natural Gas Service, PG&E Billed Through DGS		170,000
Interim Customer Service Coach (Hazen & Sawyer)		158,340
Total Services	\$	31,148,066
Information Systems:		
Handheld Radios	ے	120.000
	\$	120,000
HMI Upgrades (SCADA Screen Upgrades)		100,000
NIST Projects		100,000
Permit Tracking System (PTS) Replacement		100,000
Total Information Systems	\$	420,000



# **FUND BALANCE**



Pumps and Piping for Digester 7

Reserve/Allocation Balances											
Operating Cash Flow	\$	25,311,425									
Structural Renewal & Replacement	*	60,924,000									
Emergency		8,000,000									
Short Term Liquidity		5,000,000									
Parity Debt		2,887,200									
Risk Management		1,000,000									
Industrial Customer Stabilization		1,400,000									
Unspent Debt Issuance		31,124,704									
Total Restricted/Allocated Balances	\$	135,647,329									

Anticipated reserves balances at 06/30/23 listed above are discussed below:

<u>Operating Cash Flow</u> – Sewer Service Charge revenues are collected by the Alameda County Tax Collector's Office and remitted to the District in two major installments in December and April of each year. For the District to pay its ongoing expenditures throughout the year, it reserves between three and six months (25-50%) of gross operating expenditures at the start of each fiscal year.

<u>Structural Renewal & Replacement</u> – To maintain the ability to renew and replace infrastructure, this reserve is funded at the average annual renewal/replacement capital costs based on the 10-year CIP. This is a conservative approach.

<u>Emergency</u> – In order to help mitigate the financial impacts of an emergency or catastrophic event, the District has an Emergency Reserve. Reserves will increase by \$750,000 annually until reaching 25% of the operating budget.

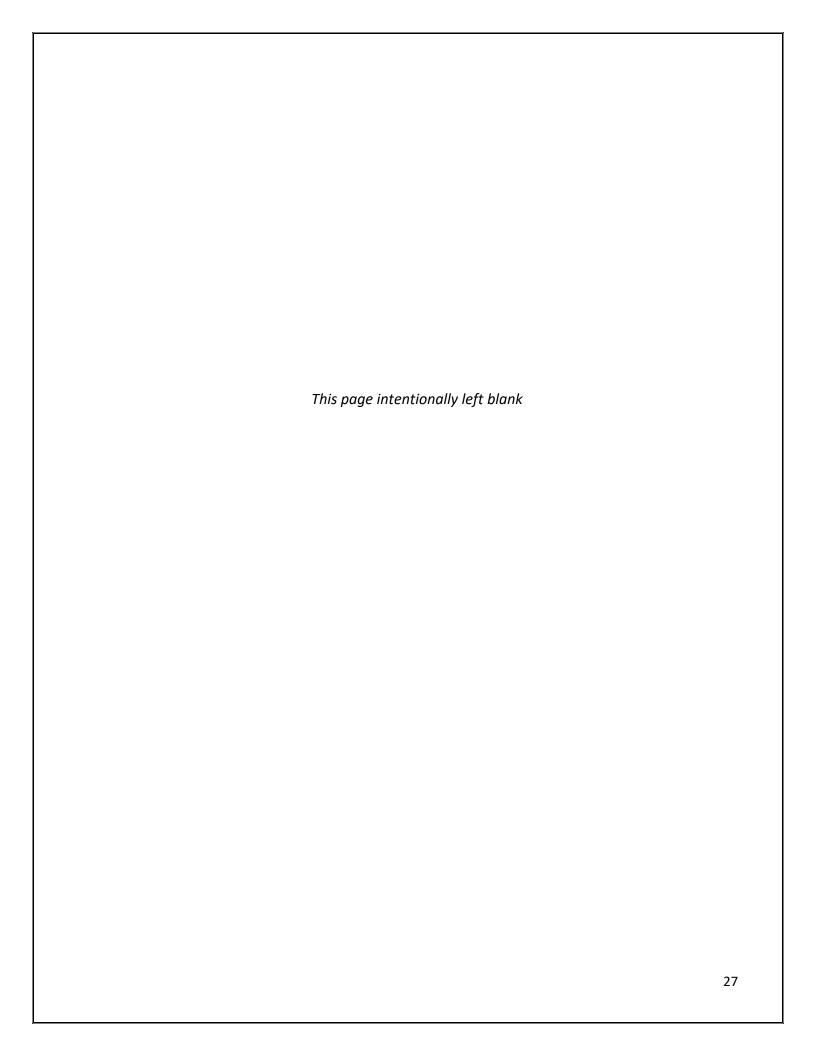
<u>Short-Term Liquidity</u> – The District maintains a minimum amount of immediately available funds, to cover the rolling 6-month average monthly payroll, plus a rolling 6-month average of the monthly accounts payable, held in a local bank account, in cash deposits.

<u>Parity Debt Reserve</u>- This fund was recently established to cover debt covenants associated with the Series 2020A bond issuance.

<u>Risk Management</u> - The District is a member of and purchases liability insurance from the California Sanitation Risk Management Association (CSRMA). The deductible of \$500,000 reduces the amount of premiums charged to the District. To account for an event that is either not covered by insurance or under the deductible amount, the District reserves two times the annual deductible amount, based on claims history.

<u>Industrial Customer Stabilization</u> - The District has several Significant Industrial Users (SIUs). This reserve allows the District to implement appropriate responses and actions should one or more of these SIUs significantly scale back or cease operations unexpectedly, resulting in a rapid loss of revenue to the District.

<u>Unspent Debt Issuance</u> – These funds represent the unspent Series 2020A and 2021A bond issuance. They are maintained in a separate investment account and are being drawn down for specifically identified projects as they progress.



# CAPITAL IMPROVEMENT PLAN



Digester 7

### Capital Improvement Plan

Capital improvements are construction or renovation activities that add value to the Districts fixed assets (pipelines, buildings, facilities, and equipment) or significantly extend their useful life. Each year, the District reviews it's 20 year Capital Improvement Program (CIP) based on factors such as growth, regulatory requirements, planning documents, and existing asset management needs. The rehabilitation, replacement, improvement, and expansion of the District's facilities continue to be the key drivers for the adopted Fiscal Year 2023 CIP. The District funds an extensive CIP plan that is designed to preserve, maintain, and enhance assets, meet regulatory requirements, accommodate the community's needs, and protect public health and the environment.

In the next 12 to 24 months the District expects to have over 45 individual capital projects underway totaling in excess of \$570 million dollars. The following pages provide a description of those projects followed by a breakout summary of the CIP projects for the next five years. The appendix contains a detailed summary of the entire 20 year CIP budget.

The following are some of the major design projects that are currently underway:

- WAS Thickeners
- Field Operations Building (Space Needs Assessment)
- ETSU Phase 1B and 1C
- Switchboard 3 and Motor Control Center 25
- Sodium Hypochlorite Loop Improvements
- Digester 6 Condition Assessment

The following represent some of the significant projects that will be under construction:

- ETSU Phase 1A Aeration Basins
- ETSU Phase 1A Campus
- Newark and Irvington PS Chemical Improvements
- Alvarado Influent PS Project
- Irvington Basin RCP Sewer Rehab
- Standby Power Generation System Upgrade
- Digester 7
- Digester 6 Cleaning

The balance of this section of the budget provides a summary of the 20 year CIP budget. Documents include the 20 year forecast summary of CIP projects followed by a brief description of each project.

UNION SANITARY DISTRICT CIP FISCAL YEAR 23 to FY 42 - 20 YEAR FORECAST SUMMARY (in millions)														
Project Name	% Fund 80	% Fund 90	Rank	Total Project Cost	Spent in Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28 to FY 32	FY 33 to FY 37	FY 38 to FY 42	Total
Admin Facilities														
Additional CS (Vehicle) Storage	100%	0%	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250	\$ -	\$ -	\$ 250
Cathodic Protection Improvements	100%	0%		760	738	•	500	-	300		1,027	804	1,420	4,073
ETSU - 1A - Campus Building	100%	0%			4,790		52,671	19,600	-	_	_,=	_	_,:	89,271
Field Ops Bldg. Sesmic Upgrade and Leak Repairs	100%	0%		5,550	-	300	340	3,437	1,473	_	_	_	_	5,550
FMC Storage	100%	0%		-	_	_	300	-	_,	_	_	_	_	300
Plant Paving	100%	0%		_	_	_	-	_	_	_	1,150	400	600	2,150
Radio Repeater Antenna Replacement	100%	0%		_	_	_	_	_	_	_	150	-	-	150
Solar Panels/Inverters Replacement at Alvarado	50%	50%		_	_	_	_	_	_	_	-	370	_	370
Solar Panels/Inverters Replacement at Carport	50%	50%		100	_	_	_	100	_	_	670	-	278	1,048
Solar Panels/Inverters Replacement at Irvington	50%	50%			_	300	_	-	_	_	1,832	_		2,132
Solar rancis/inverters replacement at invington	30%	3070		100,771	5,528	17,622	53,811	23,137	1,773		5,079	1,574	2,298	105,294
Collection System	1			100,771	3,320	17,022	55,011	23,137	1,773	_	3,079	1,5,4	2,238	103,234
Cast Iron/Pipe Lining	100%	0%	2					570		607	1,340	2,367	1,854	6,738
Central Avenue Sanitary Sewer Relocation	100%	0%		1,400	-	100	1,300	370	-	607	1,540	2,307	1,054	1,400
FY 21 Cast Iron/Piping Lining	100%	0%			318		1,500	-	-	-	-	_	_	1,400
	100%	0%		335 530	318	530	-	-	-	-	-	-	_	530
FY 23 Cast Iron/Piping Lining Gravity Sewer Rehab/Replacement		0%		796	766		1 700	-	1 022	-	6,235	4 005	0 626	23,307
	100%			796	766	30	1,708	200	1,823	2.500		4,885	8,626	
RCP Sewer Rehab (Alvarado Basin)	100%	0%		-	-		-	200	2,200	2,500		-	-	4,900
RCP Sewer Rehab (Irvington Basin)	100%	0%		6,025	825	5,200	-	-	-	-	5,000	-	-	10,200
RCP Sewer Rehab (Newark Basin)	100%	0%	1	-	-	-	-	-	-	250		-	-	5,000
				9,086	1,909	5,877	3,008	770	4,023	3,357	17,325	7,252	10,480	52,092
Transport System		=00/	_											24.255
Alameda Creek Crossing Lift Station	50%	50%		_	-	-	-	-	-	-	-	-	21,866	21,866
Cherry St. PS	0%	100%		543	105	320	118	-	-	-	-	-	-	438
Equalization Storage @ Newark	0%	100%		-	-	-	-	-	-	-	-	12,473	21,951	34,424
Forcemain Corrosion Repairs - Phase 3	100%	0%		1,344	144	1,200	-	-	-	-	-	-	-	1,200
Forcemain Corrosion Repairs - Phase 4	100%	0%		1,400	-	100	1,400	-	-	-	-	-	-	1,500
Forcemain Rehabilitation	100%	0%		-	-	-	-	-	-	-	-	-	50,000	50,000
Irvington PS Pumps and VFDs	50%	50%		112	12		-	-	2,294	12,316	5,278	-	-	19,988
Newark and Irvington PS Chemical System Improve	45%	55%		9,738	738	1,500	5,000	2,500	-	-	-	-	-	9,000
Newark PS Pumps and VFDs	50%	50%		-	-	-	-	-	-	-	25,152	-	-	25,152
Pump Station Asset Condition Assessment R&R	100%	0%	3	-	-	-	-	3,849	929	211	,	11,258	765	21,561
Sanctuary West Pump Station	0%	100%	2	-	-	-	-	-	1,500	1,500		-	-	3,000
Transport System Misc. Projects	100%	0%	3	-	-	-	-	-	250	250	1,250	1,250	1,250	4,250
				13,137	999	3,220	6,518	6,349	4,973	14,277	36,229	24,981	95,832	192,379
Treatment Plant														
Aeration Blower 11 and East Blower Bldg Improve	0%	100%		2,270	2,155	115	-	-	-	-	-	-	-	115
Alvarado Influent PS Improvements	50%	50%		11,265	10,786	480	-	-	_	-	-	-	-	480
Alvarado Influent Valve Box Gate Valves 1-2	100%	0%	2	-	-	-	50	500	-	-	-	-	-	550
Centrifuge Building Improvements	50%	50%		1,626	1,606	20	-	-	-	-	-	-	-	20
Centrifuge Replacement	50%	50%		-	-	-	-	-	1,166	2,650	15,512	-	-	19,328
Centrifuge System Equipment Replacement	100%	0%		-	-	-	-	-	927	1,263		-	-	14,328
Cogen Engine No. 1 60K Block Replacement	50%	50%		-	_	-	-	1,050	-	-,	-	1,250	1,500	3,800
Cogen Engine No. 2 60K Block Replacement	50%	50%		_	_	-	1,000	-,	-	-	1,150		1,450	3,600
Cogen Retrofit	50%	50%		_	_	-	-	-	-	-	3,002	_		3,002
Control Box No. 1 Improvements	100%	0%		_	_	-	-	_	-	622		_	_	6,943
Degritter Building Roof (Seismic) Replacement	100%	0%		_	_	_	_	_	_	-		_	_	
	100/0	370	-								1 3, 1, 73	I	1	5,443

UNION	UNION SANITARY DISTRICT CIP FISCAL YEAR 23 to FY 42 - 20 YEAR FORECAST SUMMARY (in millions)													
Project Name	% Fund 80	% Fund 90	Rank	Total Project Cost	Spent in Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28 to FY 32	FY 33 to FY 37	FY 38 to FY 42	Total
Degritting at Headworks and Improvements	50%	50%	2	-	-	-	-	-	-	1,896	15,512	-	-	17,408
Diffuser Replacement	100%	0%	3	-		-	-	-	-	-	-	2,092	-	2,092
Digester Additional Capacity	0%	0%	3	-	-	-	-	-	-	-	-	-	-	-
Digester No. 1 Insp & Rehab	100%	0%	2	-	-	-	-	-	358	1,998	1,332	-	6,724	10,412
Digester No. 2 Insp & Rehab	100%	0%	1	-	-	-	-	_	-	-	-	6,106	-	6,106
Digester No. 3 Insp & Rehab	100%	0%	3	-	-	-	-	_	-	-	522	5,017	-	5,539
Digester No. 4 Insp & Rehab	100%	0%	3	-	-	-	-	_	430	2,398	1,599	-	7,852	12,279
Digester No. 5 Insp & Rehab	100%	0%	3	-	-	-	-	_	-	-	5,025	-	3,739	8,764
Digester No. 6 Insp & Rehab	100%	0%	3	7,050	-	479	2,278	4,571	-	-	1,005	8,218	-	16,551
Digester No. 7	0%	100%	1	28,643	28,443	200	, -	, -	-	=	, -	, -	-	200
Digester No. 7 Insp & Rehab	100%	0%	3	, -	, -	-	-	-	-	-	-	14,232	-	14,232
Emergency Outfall Outlet Improvements	50%	50%	1	2,511	2,452	60	_	_	_	_	_		_	60
ETSU - 1A - Aeration Basin Modifications	60%	40%	1	77,402	11,608	9,300	18,600	19,100	18,794	-	_	_	-	65,794
ETSU - 1A - Aeration Basin No. 8	40%	60%	1	26,683	1,823	9,200	12,200	3,460		_	_	_	_	24,860
ETSU - 1A - Aeration Internal Lift Pumps	60%	40%	1	9,819	447	3,700	3,200	2,472	_	_	_	_	_	9,372
ETSU - 1A - Blower 7-10 Replacement	60%	40%	1	20,068	1,376	7,100	6,368	4,100	1,124	_	_	_	_	18,692
ETSU - 1A - Plant 12kV Switchgear (SWGR-SE)	100%	0%	1	5,458	470	3,100	1,888	-	-,	_	_	_	_	4,988
ETSU - 1A - Site Drainage Improvements	50%	50%	1	8,858	-	1,000	4,658	3,200	_	_	_	_	_	8,858
ETSU - 1B - Effluent Facilities	60%	40%	1	48,239	1,115	1,000	4,800	14,200	16,100	9,862	1,162	_	_	47,124
ETSU - 1B - Secondary Clarifiers	60%	40%	1	149,795	2,080	2,000	12,500	44,800	51,000	32,577	4,838	_	_	147,715
ETSU - 1B - Switchboard 4 Replacement	60%	40%	1	1,990	2,000	150	450	1,390	31,000	32,377	-,030	_	_	1,990
ETSU - 1C - Plant Equalization Storage	25%	75%	1	39,618	_	-		1,330	1,200	1,800	36,618	_	_	39,618
ETSU - 2 - Nutrient Removal (Level 2 Year-round)	50%	50%	3	33,018	_	_	_	_	1,200	1,000	50,010	_	270,668	270,668
Flares Replacement	100%	0%	2	_	-	-	706	4,083	1,750	-	_	-	270,008	6,539
Headworks Gates	100%	0%	2	_	-	-	700	4,065	1,730	-	4,202	-	-	4,202
MCC Replacement	100%	0%	2	_				_	_	_	541	_	_	541
Miscellaneous Improvements	100%	0%	2	1,900	170	650	1,080	-	-	-	341	-	-	1,730
Odor Scrubber System Improvements	100%	0%	2	1,900	170	030	1,000	631	1,295	5,686	10,875	26,326	7,125	51,938
Plant 1 and 2 Water System Improvements	100%	0%	2	_	-	-	-	031	105	1,069	10,873	20,320	7,123	1,174
Plant 12kV Switchgear	100%	0%	2	-	-	-	-	1 069	4,722	4,722	_	-	-	10,512
	100%	0%		-	-	-	- 379	1,068		4,722	_	-	-	
Plant 5kV Switchgear		50%	2	-	-	-		2,713	1,163	-	-	-	0.500	4,255
Plant Additional Power Source	50%	50% 0%	3	-	-	-	- 457	4 02 4	407	-	16.003	500	9,500	10,000
Plant Asset Condition Assessment R&R	100%		2	1 400	-	200	157	4,934	497	-	16,893	4,431	30,379	57,291
Plant Fiber Optic Network	50%	50% 0%	2	1,400	-	200	1,200	-	-	-	2,200	1,400	2 500	5,000
Plant Mechanical and Electrical Projects	100%		2	250	-	-	500	500	500	500	2,500	2,500	2,500	9,500
PLC Replacement	100%	0%	2	250	-	250	-	300	-	-	350	850	500	2,250
Primary Clarifier (1 - 4) Seismic Upgrade	100%	0%	1	-	-	-	-	753	4,315	1,849	-	-	-	6,917
Primary Clarifier Rehab (5-6)	75%	25%	2	-	-	-	-	1,695	8,005	8,229	5,144	-	-	23,073
Reclaimed Water Reclaimed Water	0%	0%	3	-	-	-	-	-	-	-	-	-	-	-
Secondary Digester No. 1 Insp & Rehab	100%	0%	3	1,170	-	115	500	555	-	-	-	5,231	-	6,401
Secondary Digester No. 2 Insp & Rehab	100%	0%	3	-	-	-	-	-	367	3,413	-	542	5,039	9,361
Seismic Retrofit of Conc. Structures	100%	0%	2	-	-	-	300	-	300	-	900	600	900	3,000
Sodium Hypochlorite Loop Improvements	100%	0%	2	1,170	170	500	500	-	-	-	-	-	-	1,000
Standby Power Generation System Upgrade	100%	0%	1	27,754	3,381	8,490	14,883	1,000	-	-	-	-	-	24,373
Standby Power Generator No. 4	0%	100%	3	-	-	-	-	-	-	-	-	16,737	7,234	23,971
Switchboard 3 and MCC 25 Replacement	100%	0%	2		50	1,400	1,240	-	-	-	-	-	-	2,640
Thickeners 1 and 2 Rehabilitation	100%	0%	2		-	-	214	1,726	740	-	-	-	-	2,680

Name   80   90   Rank   Cost   Years   FY.23   FY.24   FY.25   FY.26   FY.27   to FY.32   to FY.37   to FY.37   To FY.37   To FY.38   To FY.3				nillions)	ARY (in m	SUMM	RECAST	R FO	20 YEAR	to FY 42	<b>YEAR 23</b>	P FISCAL Y	CT CII	DISTRIC	NITARY	UNION SA
Name   80   90   Rank   Cost   Years   FY.23   FY.24   FY.25   FY.26   FY.27   to FY.37   to FY.37   to FY.37   Thickners 3 and 4 Rehabilitation   100%   0%   3   100%   0%   1   22,442   1,312   250   250   8,250   8,250   8,250   4,130   10,500   -											Spent in	Total				
Trickleners 3 and 4 Rehabilitation    Most Thickeners   Waste Recycling and Alternative Energy   0%   100%   0%   1   22,442   1,312   250   250   8,250   8,250   4,130   1   1,0500	38	FY 38	FY 33	FY 28							Prior	Project		% Fund	% Fund	Project
WAST Priority 1 Administrative Friority 1 Administrative Total Replacement (Fund 800) Total Space Replacement (Fund 800)		to FY 42	to FY 37	to FY 32	FY 27	FY 26	Y 25	ı	FY 24	FY 23	Years	Cost	Rank		80	Name
Waste Recycling and Alternative Energy  0% 100% 3	- 3,708	-	3,708	-	-	-	-	-	-	-	-	-				
S 500,071	- 21,130	-	-	-	4,130	8,250	8,250	0	250	250	1,312	22,442				
Total Administrative	- 10,500	-	-		-	-	-	-	-	-	-	-	3	100%	0%	Waste Recycling and Alternative Energy
Section   System   Substitution   System   Sys	5,110   \$ 1,094,617	\$ 355,110	\$ 99,740	\$ 165,284	\$ 84,664	5 123,108	27,051	1 \$ 3	\$ 89,901	\$ 49,759	\$ 69,444	\$ 500,071				
Second System   Second Syste	2,298 \$ 105,294	\$ 2,298	lć 1 E7/	l ¢ = 070	ċ	1 772	22 127	1 Ċ	Ċ E2 011	¢ 17.622	¢ EE20	¢ 100 771				Total Administrative
Total Transport   13,137   999   3,220   6,518   6,349   4,973   14,277   36,229   24,981   95   50,071   69,444   49,759   89,901   127,051   123,108   84,664   165,284   99,740   355, 56,2365   57,880   576,478   513,238   517,307   513,877   5102,298   5223,917   5133,474   5403, 475   523,065   57,880			. ,													
Froing   F					,				,	,						,
Sepair & Replacement (Fund 800) Total   \$ 404,518   \$ 31,599   \$ 59,118   \$ 121,254   \$ 116,832   \$ 92,938   \$ 71,984   \$ 147,114   \$ 102,577   \$ 281, 218,547   \$ 46,281   \$ 17,360   \$ 31,984   \$ 40,475   \$ 40,939   \$ 30,314   \$ 76,803   \$ 30,970   \$ 181, \$ 31,599   \$ 59,118   \$ 121,254   \$ 116,832   \$ 92,938   \$ 71,984   \$ 147,114   \$ 102,577   \$ 281, 218,547   \$ 46,281   \$ 17,360   \$ 31,984   \$ 40,475   \$ 40,939   \$ 30,314   \$ 76,803   \$ 30,970   \$ 181, \$ 31,599   \$ 32,016   \$ 31,984   \$ 40,475   \$ 40,939   \$ 30,314   \$ 76,803   \$ 30,970   \$ 181, \$ 31,547   \$ 463, \$ 30,970   \$ 181, \$ 31,547   \$																·
Repair & Replacement (Fund 800) Total \$ 404,518 \$ 31,599 \$ 59,118 \$ 121,254 \$ 116,832 \$ 92,938 \$ 71,984 \$ 147,114 \$ 102,577 \$ 281, 218,547 \$ 46,281 \$ 17,360 \$ 31,984 \$ 40,475 \$ 40,939 \$ 30,314 \$ 76,803 \$ 30,970 \$ 181, 623,065 \$ 77,880 \$ 76,478 \$ 153,238 \$ 157,307 \$ 133,877 \$ 102,298 \$ 223,917 \$ 133,547 \$ 46,281 \$ 15,624 \$ 15,		,		,					•							
Capacity (Fund 900) Totals  218,547	1	<del>                                     </del>			, -,	,-	- ,		,,	, -, -	, ,	,,				
Repair & Replacement (Fund 800) Total - 90% to FY 23 Budget   S 53,206   15,624   Total Balance to Budget   S 99,611   S 4,790   S 17,300   S 30,011   S 23,037   S 1,473   S -	1,904 \$ 993,721	\$ 281,904	\$ 102,577	\$ 147,114	\$ 71,984	92,938	16,832	4 \$ 1	\$ 121,254	\$ 59,118	\$ 31,599	\$ 404,518				Repair & Replacement (Fund 800) Total
Repair & Replacement (Fund 800) Totals - 90% to FY 23 Budget Capacity (Fund 900) Totals - 90% to FY 23 Budget Total Balance to Budget  Priority 1 Administrative Priority 1 Collection System Priority 1 Treatment & Disposal Total Priority 2 Administrative Priority 2 Administrative Priority 2 Collection System  1,661 1,084 1,084 1,080 1,	1,816 450,661	181,816	30,970	76,803	30,314	40,939	40,475	34	31,984	17,360	46,281	218,547				Capacity (Fund 900) Totals
Total Balance to Budget   15,624   Total Balance to Budget   5 68,830     5 8,830     5 8,	3,720 \$ 1,444,382	\$ 463,720	\$ 133,547	\$ 223,917	\$ 102,298	133,877	57,307	8 \$ 3	\$ 153,238	\$ 76,478	\$ 77,880	\$ 623,065				
Total Balance to Budget   15,624   Total Balance to Budget   5 68,830     5 8,830     5 8,																
Priority 1 Administrative   \$99,611 \$ 4,790 \$ 17,300 \$ 53,011 \$ 23,037 \$ 1,473 \$ - \$ - \$ - \$ - \$															3 Budget	
Priority 1 Administrative \$ 99,611 \$ 4,790 \$ 17,300 \$ 53,011 \$ 23,037 \$ 1,473 \$ - \$ - \$ - \$ \$ - \$ \$ Priority 1 Collection System 7,425 825 5,300 1,300 200 2,200 2,750 9,750 - Priority 1 Transport 3,287 249 1,620 1,518																
Priority 1 Collection System Priority 1 Transport Priority 1 Transport Priority 1 Transport Priority 1 Treatment & Disposal Total Priority 1 Priority 2 Administrative Priority 2 Transport Priority 2 Treatment & Disposal Priority 2 Treatment & Disposal Priority 3 Administrative Priority 3 Administrative Priority 3 Administrative Priority 3 Administrative Priority 3 Collection System Priority 3 Collection System Priority 3 Transport Priority 4 Transport Priority 5 Transport Priority 6 Transport Priority 6 Transport Priority 8 Transport Priority 8 Transport Priority 8 Transport Priority 9 Tran										\$ 00,030						Total balance to budget
Priority 1 Collection System Priority 1 Transport Priority 1 Transport Priority 1 Transport Priority 1 Treatment & Disposal Total Priority 1 Priority 2 Administrative Priority 2 Transport Priority 2 Treatment & Disposal Priority 2 Treatment & Disposal Priority 3 Administrative Priority 3 Administrative Priority 3 Administrative Priority 3 Administrative Priority 3 Collection System Priority 3 Collection System Priority 3 Transport Priority 4 Transport Priority 5 Transport Priority 6 Transport Priority 6 Transport Priority 8 Transport Priority 8 Transport Priority 8 Transport Priority 9 Tran	- \$ 94,821	T¢ .	IĊ -	lė .	Ċ -	1 // 72	22 027	1 ¢	\$ 52.011	\$ 17300	\$ 4.700	\$ 00 611				Priority 1 Administrative
Priority 1 Transport Priority 1 Treatment & Disposal Priority 1 Treatment & Disposal Total Priority 1 Priority 2 Administrative Priority 2 Administrative Priority 2 Transport Priority 2 Treatment & Disposal Priority 3 Administrative Priority 3 Administrative Priority 3 Collection System Priority 3 Collection System Priority 3 Transport Priority 5 Transport Priority 5 Transport Priority 6 Transport Priority 6 Transport Priority 6 Transport Priority 6 Transport Priority 7 Transport Priority 8 Transport Priority 8 Transport Priority 9 Transport Prior	- 21,500	_	_	9.750												
Priority 1 Treatment & Disposal Total Priority 1  Priority 2 Administrative  1,160  738  322  500  100  300  - 3,679  3,679  3,679  3,679  804  1, Priority 2 Collection System  1,661  1,084  577  1,708  579  1,708  570  1,823  607  7,575  7,252  10, Priority 2 Treatment & Disposal  Total Priority 2  Priority 3 Administrative  1,160  1,	- 3,138	_	_	-	_,,,,,	-,200	-									
Priority 2 Administrative   1,160   738   322   500   100   300   -   3,679   804   1,		2,950	7,356	43,768	50,218	100,783	03,775									·
Priority 2 Collection System   1,661   1,084   577   1,708   570   1,823   607   7,575   7,252   10,	2,950 554,656			53,518												
Priority 2 Collection System   1,661   1,084   577   1,708   570   1,823   607   7,575   7,252   10,																
Priority 2 Transport       9,850       750       1,600       5,000       2,500       3,794       13,816       30,430       12,473       43,71         Priority 2 Treatment & Disposal Total Priority 2       35,242       17,509       6,114       13,534       21,320       27,445       43,058       144,549       56,636       104,549         Priority 3 Administrative Priority 3 Collection System Priority 3 Transport       -		1,698														
Priority 2 Treatment & Disposal Total Priority 2 Treatment & Disposal Total Priority 2 Treatment & Disposal Total Priority 2 Total Priority 3 Total Priority 2 Total Priority 3 Total Priority 2 Total Priority 3 Total Priority 2 Total Priority 2 Total Priority 3 Total Priority 2		10,480														
Total Priority 2         35,242         17,509         6,114         13,534         21,320         27,445         43,058         144,549         56,636         104,000           Priority 3 Administrative Priority 3 Collection System Priority 3 Transport         -<										,						
Priority 3 Administrative       -       -       -       300       -       -       -       1,400       770         Priority 3 Collection System       - <td< td=""><td>·</td><td>48,128</td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>-,</td><td>•</td><td></td><td></td><td></td><td></td><td>·</td></td<>	·	48,128							•	-,	•					·
Priority 3 Collection System       -       -       -       -       -       -       -       -       -       3,849       1,179       461       5,799       12,508       52,799	4,123 416,779	104,123	56,636	144,549	43,058	27,445	21,320	4	13,534	6,114	17,509	35,242				Total Priority 2
Priority 3 Collection System       -       -       -       -       -       -       -       -       -       3,849       1,179       461       5,799       12,508       52,	600 3,070	600	770	1 400				ın	200							Priority 2 Administrativo
Priority 3 Transport 3,849 1,179 461 5,799 12,508 52,	3,070	600	//0	1,400	-	-	-	-	300	-	-	-				•
	2,015 75,811	52,015	12 508	5 790	- 461	1 179	3 849	_	-	-	-	_				
					_					594	_	8.220				
											-	,				· · · · · · · · · · · · · · · · · · ·
	3,720 \$ 1,444,382										\$ 77.880	,				•

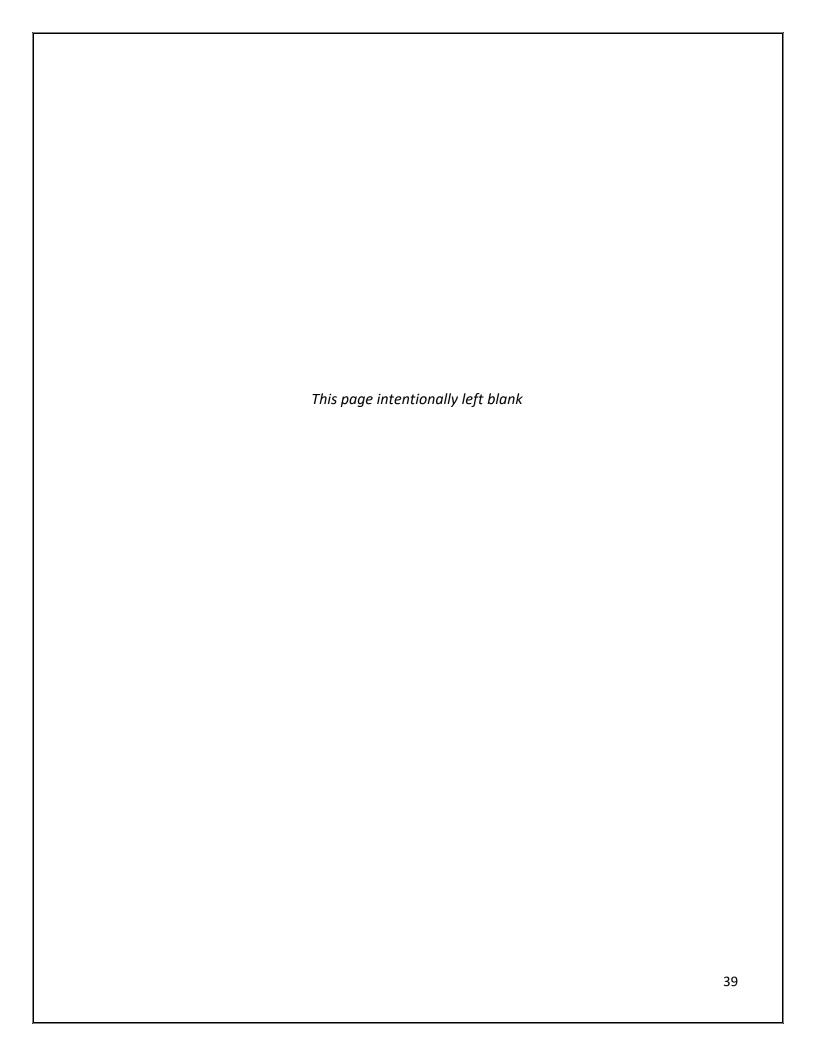
	CIP Projects Description
Project Name	Project Description
Additional CS (Vehicle) Storage	This project will provide additional vehicle storage for the Collection Services Work Group.
Cathodic Protection Improvements	The Cathodic Protection Improvements project will replace the existing cathodic protection systems at the Plant, pump stations, and force mains. The purpose of the cathodic protection systems is to prevent the corrosion of buried steel, ductile iron, and cast iron pipelines, fittings, and other structures. District staff surveys and tests all of the cathodic protection systems annually and will hire a consultant to determine if any of the systems need to be replaced.
ETSU - 1A - Campus Building	This project will replace the Operating & Administration, Control, and Facilities maintenance buildings with one combined campus building.
Field Ops Bldg. Seismic Upgrade and Leak Repairs	This project will include seismic retrofits and leak repairs to the Field Operations Building.
FMC Storage	This project will provide equipment and materials storage for the FMC Work Group.
Plant Paving	The Plant Paving project will repair and/or replace the asphalt pavement at the Plant. This project will be based on the condition of the existing asphalt pavement and in coordination with other construction projects. District staff can hire a consultant to conduct a condition assessment of the existing asphalt pavement every 5 to 10 years to determine the remaining useful life and recommend a repair/replacement schedule.
Radio Repeater Antenna Replacement	This project will replace the District's radio repeater antenna located on Mt. Allison in Fremont, CA.
Solar Panels/Inverters Replacement at Alvarado	This project will replace the solar panels and/or power inverters for the future photovoltaic system(s) (other than those at the Carport) that are yet to be constructed at the Plant. The schedule of replacement is based on a 20-year useful life for the solar panels and a 10-year useful life for the power inverters.
Solar Panels/Inverters Replacement at Carport	This project will replace the solar panels and/or power inverters of the Solar Carport System located at the Plant. The schedule of replacement is based on a 20-year useful life for the solar panels and a 10-year useful life for the power inverters.
Solar Panels/Inverters Replacement at Irvington	This project will replace the solar panels and power inverters for the photovoltaic system located at the Irvington Pump Station. The schedule of replacement is based on a 20-year useful life for the solar panels and a 10-year useful life for the power inverters.
Cast Iron/Pipe Lining	This project will install cured-in-place pipe (CIPP) inside existing aged cast iron sewer mains without trenching. District staff will review the CCTV inspection of the sewer mains and identify the mains that are candidates for CIPP rehabilitation. This includes budgets for multiple phases of work.
Central Avenue Sanitary Sewer Relocation	This project will relocate an existing sewer main on Central Avenue in the City of Newark to accommodate the City's plans to construct an overpass above the railroad crossing.
FY 21 Cast Iron/Piping Lining	This construction of the FY 21 Cast Iron/Piping Lining Project began in 2021. The contractor has completed the project's original scope. District staff issued a contract change order to the contractor to repair a sewer main that was not part of the project's original scope. Staff anticipates this work will be complete by summer 2022.

FY 23 Cast Iron/Piping Lining	The FY 23 Cast Iron/Piping Lining Project is the next project that will install cured-in-place pipe (CIPP) inside existing aged cast iron sewer mains. District staff will design the project
	in 2022 with construction anticipated to begin by early 2023.
Gravity Sewer	This project will rehabilitate and/or replace existing deteriorated sewer mains by open cut
Rehab/Replacement	trenching. District staff will review the CCTV inspection of the sewer mains and identify
	the mains that are candidates for rehabilitation/replacement by the open cut trenching
	method. This includes budgets for multiple phases of work. The FY 21 Gravity Sewer
	Rehabilitation/Replacement Project began in 2021. The contractor has completed the
	project's original scope. District staff anticipates closing out the project in late FY 22 and
	release retention in FY 23.
RCP Sewer Rehab	This project will rehabilitate aged sewer trunk mains located in the Alvarado Basin that are
(Alvarado Basin)	primarily reinforced concrete pipe (RCP) by the CIPP method. The project timing will
(All varado Basili)	correspond with the completion of the condition assessment phase of the drainage basin's
	master plan update.
RCP Sewer Rehab	This project will rehabilitate aged sewer trunk mains located in the Irvington Basin that are
(Irvington Basin)	primarily reinforced concrete pipe (RCP) by the CIPP method. District staff awarded the
(II VIII BEOTI BUSIII)	construction contract for the Irvington Basin Reinforced Concrete Pipe Rehabilitation
	Project in February 2022 with construction scheduled to be complete by early 2023.
RCP Sewer Rehab	This project will rehabilitate aged sewer trunk mains located in the Newark Basin that are
(Newark Basin)	primarily reinforced concrete pipe (RCP) by the CIPP method. The project timing will
(Newark basin)	correspond with the completion of the condition assessment phase of the drainage basin's
	master plan update.
Alameda Creek	This project will construct a new lift station south of the Alameda Creek (near Paseo Padre
Crossing Lift Station	Parkway and Ardenwood Boulevard) to transport wastewater from south to north over
Crossing Lift Station	the Alameda Creek crossing on Paseo Padre Parkway. The existing gravity sewer main is
	located under the creek bed. If further erosion exposes the main, USD may need to
	remove the main from the creek.
Cherry St PS	This project will include electrical and mechanical improvements to the Cherry Street
Cherry 3013	Pump Station.
Equalization @	This project will construct equalization storage at the Newark Pump Station.
Newark	This project will construct equalization storage at the Newark's amp station.
Forcemain	The Force Main Corrosion Repairs Project - Phase 3 will repair or replace corroded steel
Corrosion Repairs -	fittings, pipes, and valves in the manholes along the west force main between Irvington
Phase 3	Pump Station and Newark Pump Station.
Forcemain	This is the fourth of four phases to repair or replace corroded steel fittings, pipes, and
Corrosion Repairs -	valves in the manholes along the east force main between Irvington Pump Station and
Phase 4	Newark Pump Station.
Forcemain	This project will install liners in the force mains when the reinforced concrete pipes show
Rehabilitation	signs of corrosion and deterioration.
Irvington PS Pumps	This project will replace the wastewater pumps, variable frequency drives, piping, backup
and VFDs	generator, and other equipment at the Irvington Pump Station.
Newark and	This project will replace the odor control systems, chemical storage and pumping systems,
Irvington PS	and other miscellaneous work at Newark Pump Station and Irvington Pump Station.
Chemical System	
Improvements	
Newark PS Pumps	This project will replace the wastewater pumps, variable frequency drives, piping, backup
and VFDs	generator, and other equipment at the Newark Pump Station.
41.41.23	Demonstration, and define equipment at the fremark family deathorn

Pump Station Asset	These are budget placeholders for replacing equipment at the pump and lift stations based
Condition	on recommendations from the 2015 Pump Station Master Plan (which will now be called
Assessment R&R	Pump Station Asset Condition Assessment Study) and any subsequent updates.
Sanctuary West	This is a budget placeholder for the replacement of the Cherry Street Pump Station when
Pump Station	the Sanctuary West housing development is constructed.
Transport System	These are budget placeholders for transport system needs.
Misc. Projects	
Aeration Blower 11	This project will install a second high speed aeration blower, upgrade the building
and East Blower	ventilation system, and make structural repairs in the East Blower Building.
Bldg Improvements	
Alvarado Influent PS	This project will replace the wastewater pumps, variable frequency drives, piping, valves,
Improvements	electrical switchboard, and other miscellaneous improvements to the Alvarado Influent
•	Pump Station.
Alvarado Influent	This project will replace the force main knife gate valves at the Alvarado Influent Valve Box
Valve Box Gate	and the Headworks Valve Box.
Valves 1-2	
Centrifuge Building	This project will replace the horizontal and inclined conveyors in the Centrifuge Building.
Improvements	p. ejest i.i.i replace the horizontal and mollied conveyors in the centinage ballang.
Centrifuge	This project will replace the centrifuges in the Centrifuge Building.
Replacement	This project will replace the centificages in the centificage building.
Centrifuge System	This project will replace pumps, conveyors, piping, and electrical equipment in the
Equipment	Centrifuge Building.
· ·	Centinuge building.
Replacement	This project will replace the engine black ofter the current engine black on Cogen No. 1
Cogen Engine No. 1 60K Block	This project will replace the engine block after the current engine block on Cogen No. 1
	has operated for 60,000 hours.
Replacement	This project will replace the engine black ofter the current engine black on Cogen No. 2
Cogen Engine No. 2	This project will replace the engine block after the current engine block on Cogen No. 2
60K Block	has operated for 60,000 hours.
Replacement	This control of this collection Catalain Bad attack with a control of the
Cogen Retrofit	This project will install the Selective Catalytic Reduction emissions control system for the
	cogen units when the Bay Area Air Quality Management District's permit reduces the
0 1 15	nitrogen oxide emissions limit.
Control Box No. 1	This project will rehabilitate or replace structural and mechanical components at Control
Improvements	Box No. 1, Headworks Valve Box, Maintenance Shop Building chemical storage area, and
	Odor Control Building chemical storage area.
Degritter Building	This project will replace the precast concrete roof panels of the Degritter Building to
Roof (Seismic)	address seismic deficiencies identified in the 2016 Seismic Study.
Replacement	
Degritting at	This project will construct new degritting equipment to remove grit from the influent
Headworks and	wastewater at the Headworks Building.
Improvements	
Diffuser	This is a budget placeholder to replace the aeration diffusers in the aeration basins.
Replacement	
Digester Additional	This is a budget placeholder for a project to construct additional primary digesters before
Capacity	the plant's solids process capacity is exceeded.
Digester No. 1 Insp	This project will conduct a condition assessment and rehabilitate Primary Digester No. 1
& Rehab	and its associated equipment, piping, and valves.
L	1 1 7 1 1 57

Miscellaneous	This project will rehabilitate or replace miscellaneous structural and electrical
Improvements	improvements at various facilities at the plant.
Odor Scrubber	This project will replace the odor control systems at the Headworks Building, Primary
System	Clarifiers 1 through 4 Building, Alvarado Influent Pump Station, Centrifuge Building, WAS
Improvements	Thickening Building, Gravity Thickeners, and Degritter Building.
Plant 1 and 2 Water	This project will construct a booster pump station to improve the capacity and pressure of
System	the plant's 1 and 2 water systems.
Improvements	
Plant 12kV	This project will replace the plant's existing 12,000-Volt utility switchgear located in the
Switchgear	Main Electrical Building.
Plant 5kV	This project will replace the plant's 4,160-volt switchgear located in the Main Electrical
Switchgear	Building.
Plant Additional	This is a budget placeholder for a project to install a secondary electrical feed from PG&E
Power Source	to accommodate higher power demand at the plant.
Plant Asset	These are budget placeholders for replacing equipment at the plant based on
Condition	recommendations from the 2018 Plant Asset Condition Assessment Study, and any
Assessment R&R	subsequent updates.
Plant Fiber Optic	These are budget placeholders for construction of underground communication duct
Network	banks to provide a route for the plant's fiber optic communication infrastructure.
Plant Mechanical	These are budget placeholders for the mechanical and electrical assets at the plant.
and Electrical	
Projects	
PLC Replacement	These are budget placeholders to replace the processor modules in the plant's
	programmable logic controllers located at all process areas.
Primary Clarifier (1 -	This project will upgrade the Primary Clarifiers 1 through 4 Building's structure to address
4) Seismic Upgrade	seismic deficiencies identified in the 2016 Seismic Study.
Primary Clarifier	This project will replace the clarifier mechanisms, modify the ventilation system, and
Rehab (5-6)	rehabilitate the structural components of the Primary Clarifiers 5 and 6 Building, including Sludge Pump Room 3.
Reclaimed Water	This budget placeholder is for the construction of a reclaimed water fill station and other
	reclaimed water projects that could be developed in the future.
Secondary Digester	This project will conduct a condition assessment and rehabilitate Secondary Digester No.
No. 1 Insp & Rehab	1 and its associated equipment, piping, and valves.
Secondary Digester	This project will conduct a condition assessment and rehabilitate Secondary Digester No.
No. 2 Insp & Rehab	2 and its associated equipment, piping, and valves.
Seismic Retrofit of	These are budget placeholders for the seismic retrofit of concrete structures at the plant.
Conc. Structures	
Sodium	This project will replace portions of the sodium hypochlorite piping system for the odor
Hypochlorite Loop	control system and the process disinfection process.
Improvements	
Standby Power	This project will replace the plant's standby generators, Substation 2, and the Odor Control
Generation System	Building's switchgear.
Upgrade	
Standby Power	This project will install a fourth standby generator in the new Standby Power Building if
Generator No. 4	the plant's power demand increases.

Switchboard 3 and	This project will replace Switchboard 3 and Motor Control Center (MCC) 25 located in the
MCC 25	Main Electrical Building.
Replacement	
Thickeners 1 and 2	This project will replace the thickener mechanism and rehabilitate the concrete at
Rehabilitation	Thickeners 1 and 2.
Thickeners 3 and 4	This project will replace the thickener mechanism and rehabilitate the concrete at
Rehabilitation	Thickeners 3 and 4.
WAS Thickeners	This project will replace the gravity belt thickeners, pumps, motor control center, and
	programmable logic controller in the WAS Thickener Building.
Waste Recycling and	This budget placeholder is a project to construct a waste recycling project and/or
Alternative Energy	alternative energy project.



# **ABOUT USD**



Easterly Aeration Basins (looking north)

## **About USD**

Union Sanitary District (USD) is a California Independent Special District. USD was formed in 1918 to protect public health and the environment by providing the services of collecting, treating, and disposing of wastewater from residences, businesses and industries. We're proud to deliver this very complex, highly-regulated service to the communities we serve.

In our founding year of 1918, USD's boundaries encompassed 3,300 acres in what was known as Southern Alameda County. The area was primarily farm and ranch land well into the twentieth century, and septic tanks were typically used for wastewater disposal.

Today, USD's service area covers over 60 square miles (about 38,400 acres) and serves over 355,000 residents in the cities of Fremont, Newark, and Union City, with over 113,000 residential, commercial, and industrial connections. Total flow to our Alvarado Treatment Plant in Union City was over 8.3 billion gallons in 2021, and averages between 22 and 24 million gallons every day with a permitted capacity of up to 33 million gallons per day.

USD is a member of the East Bay Discharge Authority (EBDA). Founded in 1974, EBDA is a five-member Joint Powers Authority (JPA) formed to plan, design, construct, and operate regional facilities to collect, transport and discharge treated effluent to deep waters of San Francisco Bay. Treated effluent from the District's Alvarado Wastewater Treatment Plant is pumped to the EBDA System and discharged into the Bay southwest of Oakland International Airport. Frequent testing of the treated wastewater confirms compliance with regional permit requirements. The other member agencies are Castro Valley Sanitary District, Oro Loma Sanitary District, City of Hayward, and City of San Leandro.

## The Communities We Serve

The District provides wastewater collection, treatment and disposal services to the residents and businesses of the cities of Fremont, Newark, and Union City, commonly referred to as the Tri-City Area, with a combined population of over 355,000. Information obtained from each city is presented below.

#### The City of Fremont

Located on the southeast side of the San Francisco Bay, Fremont is a city of over 234,000 people and 76,000 households, with an area of 92-square miles. Fremont remains the fourth most populous city in the Bay Area and California's 16th largest city. With its moderate climate and its proximity to major universities, shopping areas, recreation and cultural activities, employment centers, major airports, and the Bay Area Rapid Transit system, Fremont captures metropolitan living at its best.

Fremont is conveniently served by Interstates 680 and 880, as well as rail transport lines including Altamont Commuter Express (ACE), Amtrak Capitol Corridor, and the Bay Area Rapid Transit (BART) system. Fremont also has easy access to the San Jose Airport, Oakland Airport, San Francisco Airport,

and the Port of Oakland. Fremont is home to a broad variety of innovative firms including over 1,200 high tech, life science, and clean technology firms. The city has a broad range of quality, affordable business locations; a superior workforce; and a wide variety of tax benefits and incentive programs for businesses.

Fremont is one of the most ethnically and culturally diverse cities in the Bay Area. Residents are attracted to Fremont for its nationally recognized high-ranking public schools, its numerous well-kept parks, and a variety of recreational amenities, including beautiful Lake Elizabeth, Central Park, and Mission San José (California's 14th mission). Fremont is described as a wonderful community to live, work, and play.

#### The City of Newark

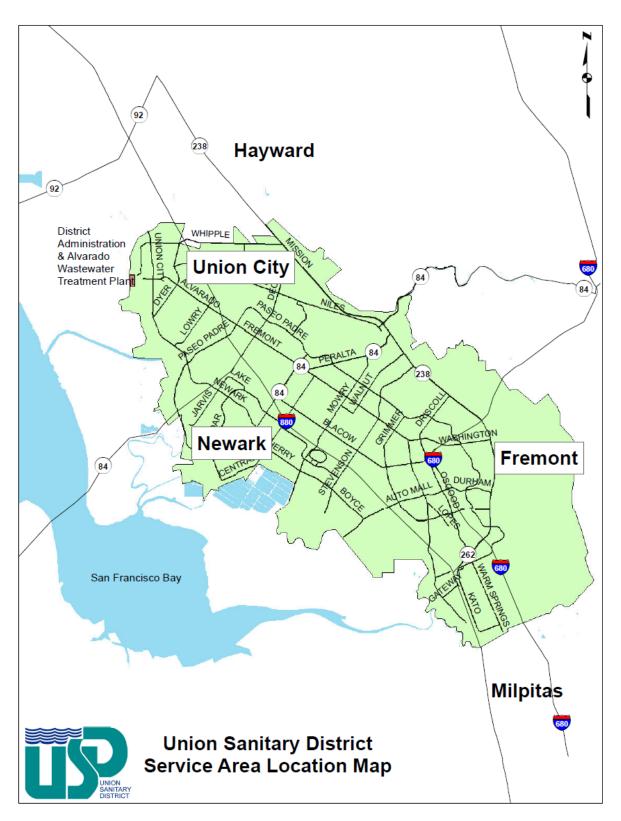
Newark has an area of 14 square miles, a population of over 48,000. Newark was incorporated in 1955 and is located 35 miles south of San Francisco and next to many high-tech hubs, including easy access to highways 880, 580, 680, and the Dumbarton Corridor. This makes Newark an ideal location to live or do business. Newark has evolved throughout the years from its days enriched in agriculture, manufacturing, and railroad to today's expansion of high-tech, biotech, and the health sciences.

Although Newark has grown significantly, it still manages to keep a small, hometown community charm which is what citizens say they love about the city. The City of Newark has a wide variety of programs and services to meet the community's needs.

#### The City of Union City

Union City is 18 square miles in area, boasting a diverse and unified people, excellent educational institutions, unsurpassed quality of life, strong economy, and world-renowned location in The San Francisco Bay Area. Incorporated in 1959, the city proudly maintains a small-town feel despite being in the center of the Bay Area, with San Francisco and Silicon Valley just minutes away. Union City has grown into an ethnically diverse community of over 73,000 residents, and the highly regarded New Haven Unified School District serves about 13,000 K-12 students. The community offers a variety of housing, with affordable and upscale homes available in many charming neighborhoods throughout the city. The transit-oriented Station District, located around the Union City BART station, boasts housing and business development opportunities with easy, convenient access to major public transit running throughout the Bay Area. Union City also offers 33 wonderful parks, sports fields, community centers, and a variety of recreation programs and social services for residents of all ages. Region-wide, the Tri-City area is experiencing significant impacts as a result of Covid-19.

## **SERVICE AREA MAP**



# **BUDGET DOCUMENT & PROCESS**



Air Piping System for Aeration Basins 5 Through 7

## **BUDGET PROCESS**

The fiscal year budget is one of the most important documents prepared by the District. Through the process of planning and preparing the budget, the District is given the opportunity to determine how best to utilize its resources for the coming fiscal year. The budget document also provides direction for management and staff on a number of fiscal issues.

Union Sanitary District adopts an annual budget. The budget document contains information on revenues and expenditure appropriations for the Fiscal Year beginning July 1 and ending June 30. In addition to the operating budget, the Board adopts an annual Capital Improvement Plan (CIP), which is part of a larger 20 year plan. These projects become an integral part of the proposed operating/capital budget.

The budget is prepared in accordance with fiscal policies/guidelines and objectives as established by the Board in Policy #2015. The time frames provided in the budget calendar reflect early involvement of District staff and the Board in review and discussion of policy direction, goals and objectives concurrent with development of financial projections and service level requirements. With this approach, the necessary components that guide the process are incorporated into the proposed budget prior to formal submission to the Board. Readers may be interested to know that all appropriations, excluding Capital Projects, lapse at year-end. This means that this budget only contains new appropriations for the Fiscal Year.

Key budget dates are shown below:

Date	Process
Early January	Budget discussions begin with all departments including FY 21/22
2022	midyear and year end projections
March 7, 2022	Midyear presentation to Board with discussions on FY 22/23 budget
	drivers
May 10, 2022	Budget workshop held with Board
May 23, 2022	Presentation of the FY 22/23 proposed budget to the Board
June 27, 2022	Adoption of the FY 22/23 budget by the Board

## **BUDGET REPORTING**

For budgetary reporting purposes, Union Sanitary District uses the modified accrual basis of accounting. Under the modified accrual basis of accounting, revenues are recognized when they become measurable and available. "Measurable" means the amount of the transaction can be determined and "available" means collectible within the current period or soon enough thereafter to be used to pay liabilities of the current period. Expenditures are recognized in the accounting period in which the liability is incurred. Non-cash expense items such as depreciation expense for fixed assets and accrued compensated absences are excluded from the budget. Principal payments for District debt are included in the budget.

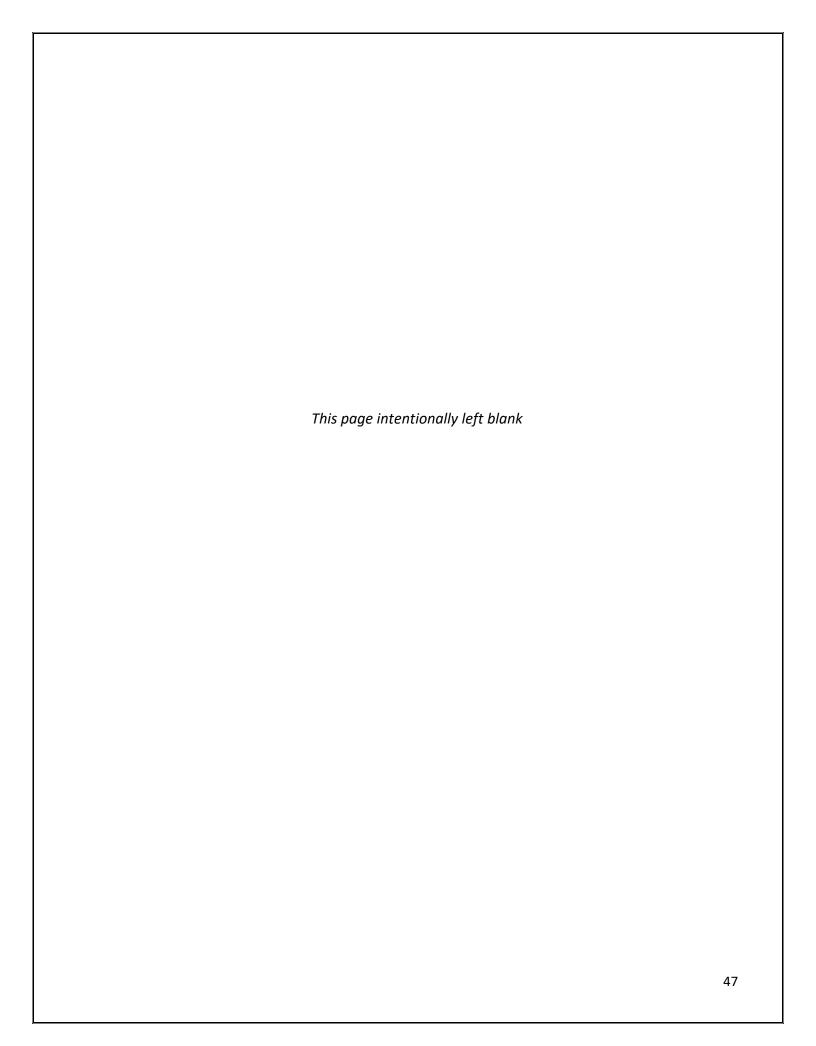
The District operates under two funds for budgetary purposes. Those funds are:

Sewer Service Fund – This fund accounts for the general operations, maintenance, and administration of Union Sanitary District. For purposes of internal accounting only, the District maintains separate funds within the Sewer Service Fund to track revenue and expenditures as they relate to operations; special projects; Other Post-Employment Benefits (OPEB); 115 Pension Trust contributions; vehicle, equipment, and information systems acquisitions; and maintenance of plant, pump, and structural components.

Capacity Fund – This fund accounts for capacity related fees collected by the District and their related expenditures. Capacity fees are charged by the District to assure that development customers that connect to the system pay their proportional share of the sewer and treatment plant required to convey and treat their wastewater. Sewer capacity charges are governed by California Government Code Section 66013.

## FINANCIAL STATEMENT REPORTING

The District operates as a proprietary fund-type and uses the modified accrual basis of accounting. All proprietary fund-types are accounted for on a flow of economic resources measurement focus. Under this measurement focus, all assets and liabilities associated with the operation of these funds are included on the statement of net position. Where appropriate, net total assets (i.e. fund equity) are segregated into contributed capital and retained earnings. Proprietary fund-type operating statements present increases (revenues) and decreases (expenses) in net position.



# OTHER INFORMATION

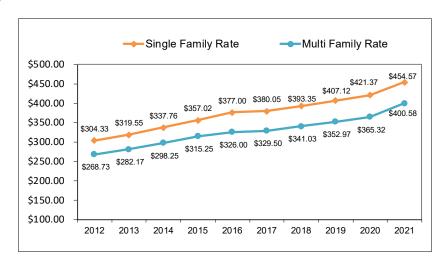


**Secondary Clarifiers** 

# Current and Historical Fees As of June 30, 2021 Last Ten Years

#### **Sewer Service Charge Rates**

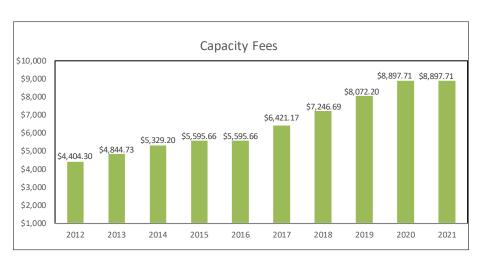
			Single
	Single	Multi -	Family Rate
	Family Rate	Family Rate	ercentage
			Change
2021	\$454.57	\$400.58	7.9%
2020	421.37	365.32	3.5%
2019	407.12	352.97	3.5%
2018	393.35	341.03	3.5%
2017	380.05	329.50	1.0%
2016	377.00	326.00	5.6%
2015	357.02	315.25	5.7%
2014	337.76	298.25	5.7%
2013	319.55	282.17	5.0%
2012	304.33	268.73	5.0%



The fees above are for residential units. A property with multiple housing units such as an apartment complex is charged \$400.58 for each dwelling unit on the property. Fees for commercial and industrial customers are based on the volume and strength of the wastewater being treated.

#### **Capacity Fee Rates**

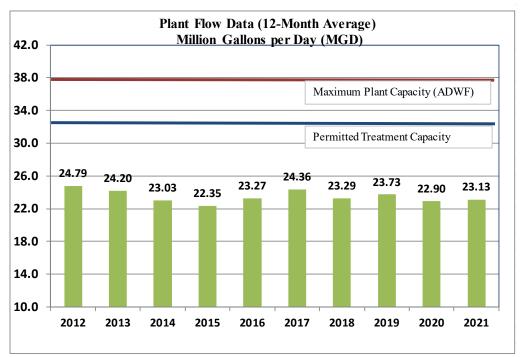
apac	my rec r	vaces
	]	Percentage
		Change
2021	\$8,897.71	0.0%
2020	8,897.71	10.2%
2019	8,072.20	11.4%
2018	7,246.69	12.9%
2017	6,421.17	14.8%
2016	5,595.66	0.0%
2015	5,595.66	5.0%
2014	5,329.20	10.0%
2013	4,844.73	10.0%
2012	4,404.30	10.0%

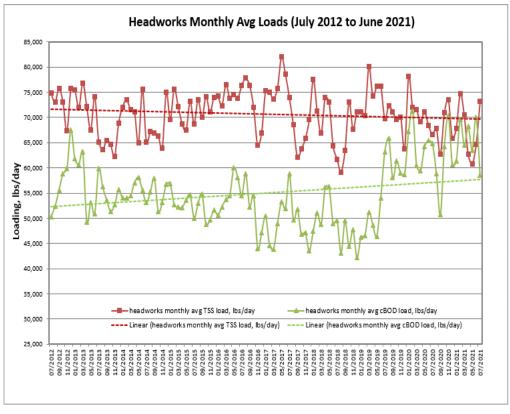


The capacity fees shown are per dwelling unit. Other categories such as restaurants, warehouses, and mixed-use commercial facilities are based on square footage and other factors as per the Capacity Fee Ordinance.

Operating Indicators by Function/Program

Average Daily Flow





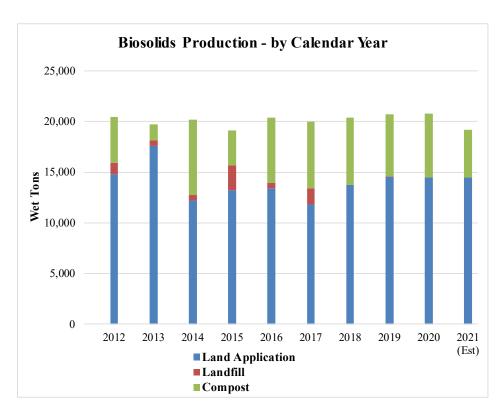
Source: USD Treatment and Disposal Work Group

Operating Indicators - Biosolids Last Ten Calendar Years

#### Function/Program

#### **Biosolids**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021 (Est)
Land Application	14,770	17,597	12,212	13,212	13,395	11,784	13,733	14,529	14,452	14,451
Landfill	1,187	501	545	2,450	563	1,624	0	72	0	0
Compost	4,501	1,642	7,414	3,470	6,399	6,584	6,615	6,103	6,342	4,722
Total (in Wet Tons)	20,458	19,741	20,171	19,132	20,357	19,992	20,347	20,704	20,793	19,173



# Full-time Equivalent District Employees by Function/Program Last 10 Fiscal Years

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Function/Program										
System Operations and Maint (CS Support, FMC, T&D, WHSE)	54.45	53.45	54.45	55.45	52.45	53.45	53.45	50.45	51.45	51.45
Engineering and construction (CIP, ETSU)	13.00	11.00	9.00	8.00	9.00	10.00	8.00	8.00	7.00	8.00
Collections System Maintenance (CS)	25.00	26.00	25.00	25.00	25.00	25.00	23.00	23.00	24.00	22.00
Office of the General Manager (GM)	2.00	2.00	2.00	2.00	2.00	2.00	3.00	1.00	2.00	3.00
Finance (FAST)	5.00	5.00	6.00	5.00	3.00	5.00	5.00	5.00	5.00	5.00
Information systems (IT)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Administration Dept (Adm Specialist, Purchasing, non-HR OST)	14.00	15.00	12.00	13.00	13.00	14.00	13.00	14.00	15.00	14.00
Customer and community services (Rest of TS)	20.00	20.00	21.00	21.00	20.00	20.00	18.00	19.00	19.00	19.00
Human resources (HR)	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00
Total # of Employees	140.45	139.45	136.45	136.45	131.45	136.45	131.45	128.45	131.45	130.45
Average years of service of employees as of June 30:	10.76	10.20	10.20	10.41	10.60	10.54	11.25	11.97	11.70	12.25

CIP = Capital Improvements Projects Team ETSU = Enhanced Treatment & Site Upgrade

FAST = Finance & Acquisition Services Team

FMC = Fabrication, Maintenace and Construction

OST = Organizational Support Team
T&D = Treatment & Disposal Work Group
TS = Technical Services Work Group

Ten Principal Industrial Rate Payers by Levy June 30, 2021

		2020-21	
	Total		% of
	Annual		Total Annual
Rate Payer	Billing	Rank	Billings
Tesla	\$1,176,212	1	1.89%
Mission Linen Supply	243,523	2	0.39%
Western Digital	224,028	3	0.36%
Washington Hospital	213,400	4	0.34%
Ranch 99/Warm Springs Shopping Center	213,196	5	0.34%
Union Square Shopping Center	212,278	6	0.34%
Lam Research	204,684	7	0.33%
US Pipe	194,164	8	0.31%
Ranch 99/Newark	181,779	9	0.29%
Boehringer Ingeheim	168,826	10	0.27%
Total annual billing largest ten:	\$3,032,089		4.88%
Total ALL annual billings	\$62,142,806		

	2019-20				
	Total		% of		
	Annual		Total Annual		
Rate Payer	Billing	Rank	Billings		
Tesla	\$1,381,023	1	2.29%		
Washington Hospital	314,394	2	0.52%		
US Pipe	244,663	3	0.41%		
Western Digital	187,814	4	0.31%		
Ranch 99/Warm Springs Shopping Center	161,740	5	0.27%		
Union Square Shopping Center/ Market Place	161,271	6	0.27%		
Lam Research	160,087	7	0.27%		
Ranch 99/Newark	148,835	8	0.25%		
Marriott Hotel	133,716	9	0.22%		
Sterling Foods	127,508	10	0.21%		
Total annual billing largest ten:	\$3,021,050		5.02%		
Total ALL annual billings	\$60,216,149				

	2018-19				
	Total		% of		
	Annual		Total Annual		
Rate Payer	Billing	Rank	Billings		
Tesla	\$1,228,862	1	2.14%		
Washington Hospital	221,799	2	0.39%		
US Pipe	216,296	3	0.38%		
Western Digital	174,219	4	0.30%		
Ranch 99/Warm Springs Shopping Center	157,421	5	0.27%		
Ranch 99/Newark	152,401	6	0.27%		
Marriott Hotel	141,572	7	0.25%		
Union Square Shopping Center	138,482	8	0.24%		
Lam Research	125,330	9	0.22%		
Gateway Plaza Shopping Center	125,202	10	0.22%		
Total annual billing largest ten:	\$2,681,584		4.68%		
Total ALL annual billings	\$57,330,651				

		2017-18	}
	Total Annual		% of Total Annual
Rate Payer	Billing	Rank	Billings
   Tesla	\$817,848	1	1.51%
Western Digital	141,806	2	0.26%
Solar City	172,276	3	0.32%
US Pipe	135,774	4	0.25%
Seagate Magnetics	156,718	5	0.29%
Lam Research	122,934	6	0.23%
Washington Hospital	173,057	7	0.32%
Kaiser Hospital	106,337	8	0.20%
Boehringer Ingeheim	87,678	9	0.16%
Seagate Technology #3	69,384	10	0.13%
Total annual billing largest ten:	\$1,983,813		3.66%
Total ALL annual billings	\$54,260,096		

_		2016-17	
	Total		% of
	Annual		Total Annual
Rate Payer	Billing	Rank	Billings
Tesla	\$1,141,868	1	2.18%
Washington Hospital	206,132	2	0.39%
Western Digital	176,435	3	0.34%
Ranch 99/Warm Springs Shopping Center	161,772	4	0.31%
Marriott Hotel	142,229	5	0.27%
Ranch 99/Newark	133,807	6	0.26%
US Pipe	130,685	7	0.25%
Kaiser Hospital	125,907	8	0.24%
Gateway Plaza	124,269	9	0.24%
Pacific Commons (Area 4-Asian Pearl, Kinders	119,920	10	0.23%
Total annual billing largest ten:	\$2,463,022		4.70%
Total ALL annual billings	\$52,384,709		

		2015-16	
	Total		% of
	Annual		Total Annual
Rate Payer	Billing	Rank	Billings
Tesla	\$469,466	1	0.94%
Western Digital	218,616	2	0.44%
Seagate Technology #3	152,100	3	0.30%
Washington Hospital	147,910	4	0.30%
US Pipe	123,218	5	0.25%
Marriott Hotel	119,716	6	0.24%
Kaiser Hospital	118,369	7	0.24%
Ranch 99/Warm Springs Shopping Center	115,458	8	0.23%
Pacific Commons (Area 4-Asian Pearl, Kinder	112,498	9	0.22%
Pacific Commons (Kohls/Old Navy Area)	108,358	10	0.22%
Total annual billing largest ten:	\$1,685,708		3.36%
Total ALL annual billings	\$50,112,564		

# Miscellaneous Statistics 6/30/2021

Governing Body: Elected 5-Member Board of Directors

Fremont - 3 Members Newark - 1 Member Union City - 1 Member

Governmental Structure: Established in 1918 and reorganized in 1923 under the Sanitary District Act

Staff: 140.45 full-time equivalent employees

CEO: General Manager

CFO: Business Services Manager

Authority: California Health and Safety Code Section 4700 et. Seq.

Services: Wastewater collection, treatment and disposal

Service Area: 60.2 square miles (Annexed areas - Fremont, Newark and Union City)

Total Population Served: 355,877

Number of Parcels 101,456 (90,442 Residential; 3,116 Non-Residential; 7,907 Other (vacant land))

Operations: Total miles of pipeline - 839, including the force main and all gravity sewers

(including trunk mains)

Number of pumping stations - 7

Larger: Irvington, Newark, Alvarado

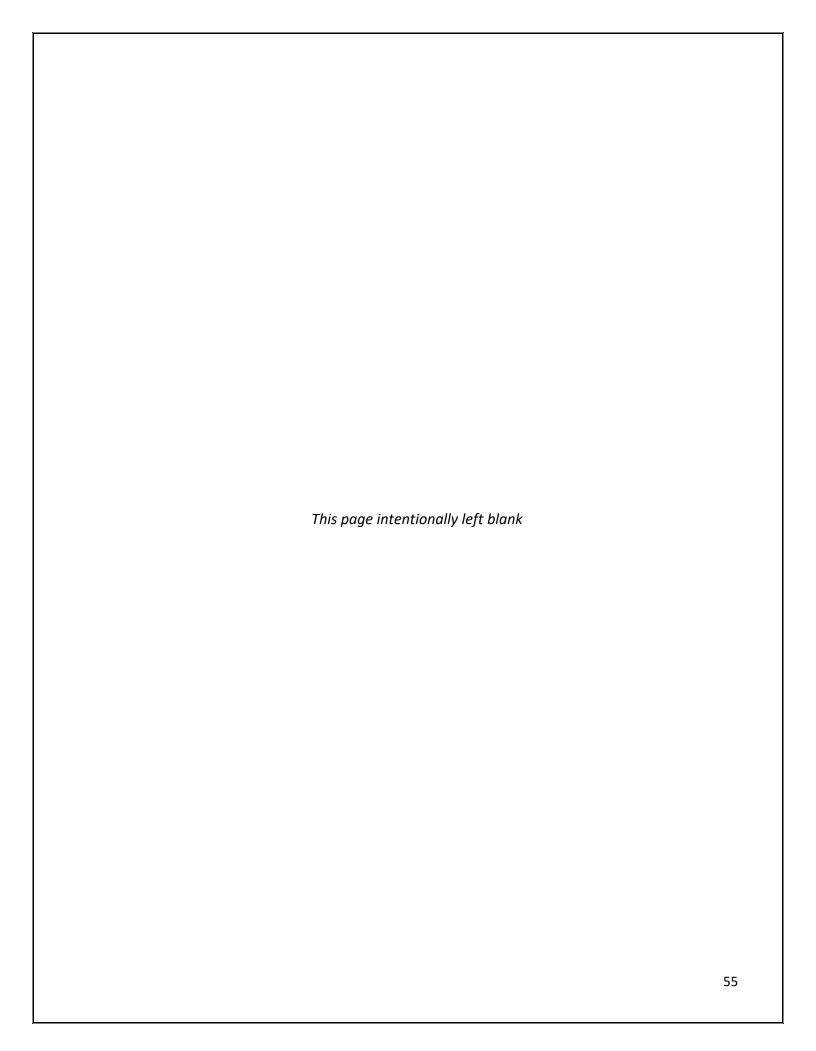
Smaller: Fremont, Boyce, Paseo Padre, Cherry Street

Permitted Plant Treatment

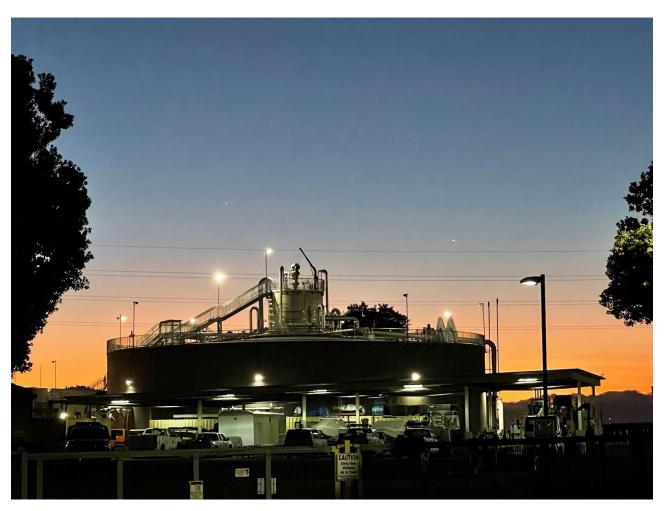
Capacity (ADWF) 33 million gallons per day (mgd)

Type of Treatment: Secondary

Sewer Service Charge: \$454.57 annually per single family residential dwelling unit



# **APPENDIX**



Digester 7

# Principal Officials

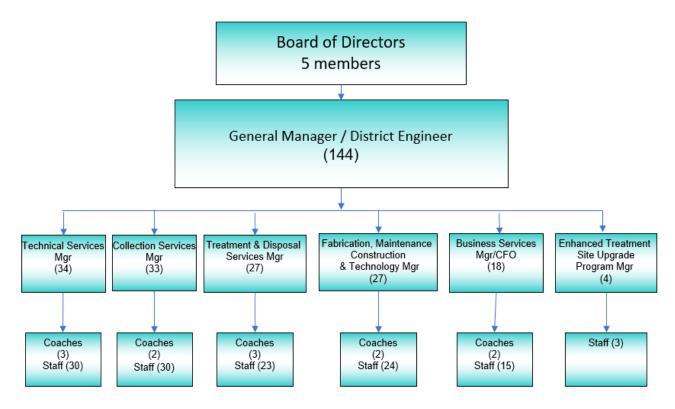
<b>Board Member</b>	Position	City Represented	Year Elected	Term Expires
Anjali Lathi	President	Fremont, Ward 3	2002	2024
Manny Fernandez	Vice President	Union City, Ward 1	2011	2024
Jennifer Toy	Secretary	Fremont, Ward 3	1998	2022
Tom Handley	Director	Fremont, Ward 3	2007	2022
Pat Kite	Director	Newark, Ward 2	1991	2024

### Staff

Paul Eldredge	General Manager/District Engineer
Armando Lopez	Treatment & Disposal Services Manager
Robert Simonich	Maintenance & Technology Services Manager
Mark Carlson	Business Services Manager/Chief Financial Officer
Raymond Chau	Technical Services Manager
Jose Rodrigues	Collection Services Manager

Karen W. Murphy - General Counsel







## VISION/MISSION STATEMENT April 10, 2017

To safely and responsibly collect and treat wastewater, and to recover resources from process waste streams, while protecting human health and improving the environment in a way that benefits the Tri-Cities and all USD stakeholders.

How we continue to accomplish our Vision:

#### Commitment to safety:

- Continually reviewing our safety program for opportunities to improve
- Focusing on protecting employees and the community in all our activities
- Allocating resources to ensure safe operations (equipment, training, staff)
- Collaboratively promoting a safe work environment

#### Responsibility:

- · Being accountable for our actions and decisions
- Being fiscally prudent
- Maintaining and upgrading infrastructure
- Anticipating and meeting future District and stakeholder needs
- Compliance with laws and regulations (local, state, federal)
- Effective asset management
- Effective use of technology
- Looking for innovative ways to reduce or reuse our waste streams

#### Collect, treat, and recover/reuse wastewater:

- Providing capacity in the collection system and plant
- Regulating connections
- Increasing efforts for resource recovery (biogas, biosolids, etc.)
- Exploring ways to maximize water reclamation and reuse potential

#### Human health and environmental stewardship

- Preventing sewer spills and back-ups
- Limiting health risks through treatment of wastewater
- Responding to emergencies
- Enhancing water quality in the San Francisco Bay estuary
- Meeting or exceeding all water and air quality standards
- Promoting pollution prevention and pretreatment through outreach and educational programs
- Maximizing use of green energy sources when feasible
- Working towards energy neutrality



## VISION/MISSION STATEMENT April 10, 2017

#### We benefit our stakeholders by:

Community

- Complying with all local, state, and federal regulations, protecting the environment and controlling odors
- Communicating with the public and bringing awareness about wastewater issues
- Responding to emergencies and providing mutual aid
- Participating in community outreach activities
- Contributing to the wastewater treatment profession by participating in professional associations, partnering with other agencies and organizations, and sharing best practices
- Working cooperatively with cities and other government agencies

# Customer

- Providing award-winning, reliable service
- Being fiscally responsible and cost effective, and providing value
- Promptly responding to customers' needs
- Being professional and courteous
- Proactively and creatively meeting customer needs
- Supporting businesses through permitting, education and by providing capacity

# Employees

- Providing a safe work environment
- Recognizing employee contributions
- Encouraging cooperation and collaboration
- Demonstrating equality and fairness
- Valuing employee input, and offering opportunities for involvement and creativity
- Providing training and resources
- Providing competitive wages and benefits in a stable work environment
- Communicating and sharing information openly and honestly

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	20-Year Total
ADMINI	TRATIV	E FACILIT	TIES																									
800		3		Additional CS (Vehicle) Storage									250				250											250
800		2	Constr	Cathodic Protection Improvements	760	738	22	500		300		320		342		365	1,849		389		415		443		473		504	4,073
800		1	Constr	ETSU - 1A - Campus Building	94,061	4,790	17,000	52,671	19,600								89,271											89,271
800		1	Program	Field Ops Bldg. Sesmic Upgrade and Leak Repairs	5,550	0	300	340	3,437	1,473							5,550											5,550
800		3		FMC Storage				300									300											300
800		3		Plant Paving								750		200		200	1,150		200		200		200		200		200	2,150
800		2		Radio Repeater Antenna Replacement									150				150											150
800	50	3		Solar Panels/Inverters Replacement at Alvarado													0		185									185
900	50	3		Solar Panels/Inverters Replacement at Alvarado													0		185									185
800	50	2		Solar Panels/Inverters Replacement at Carport	50	0			50						335		385									139		524
900	50	2		Solar Panels/Inverters Replacement at Carport	50	0			50						335		385									139		524
800	50	2 D	es/Const	r Solar Panels/Inverters Replacement at Irvington	150	0	150									916	1,066											1,066
900	50	2 D	es/Const	r Solar Panels/Inverters Replacement at Irvington	150	0	150									916	1,066											1,066
Total fo	ADMINI	STRATI	VE FACIL	TIES	100,771	5,528	17,622	53,811	23,137	1,773	0	1,070	400	542	670	2,397	101,422	0	959	0	615	0	643	0	673	278	704	105,294
				Total Priority 1 Administrative Facilities	99,611	-	17,300	53,011	23,037	1,473	0	0	0	0	0	0	94,821	0	0	0	0	0	0	0	0	0	0	94,821
				Total Priority 2 Administrative Facilities	1,160	738	322	500	100	300	0	320	150	342	670	2,197	4,901	0	389	0	415	0	443	0	473	278	504	7,403
				Total Priority 3 Administrative Facilities	0	0	0	300	0	0	0	750	250	200	0	200	1,700	0	570	0	200	0	200	0	200	0	200	3,070
				Total Fund 800 - Administrative Facilities	100,571	5,528	17,472	53,811	23,087	1,773	0	1,070	400	542	335	1,481	99,971	0	774	0	615	0	643	0	673	139	704	103,519
				Total Fund 900 - Administrative Facilities	200	0	150	0	50	0	0	0	0	0	335	916	1,451	0	185	0	0	0	0	0	0	139	0	1,775
Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	20-Year Total
COLLECT	ION SYS	TEM																										
800		2		Cast Iron/Pipe Lining					570		607		648		692		2,517	738		788		841		897		957		6,738
800		1	Design	Central Avenue Sanitary Sewer Relocation	1,400	0	100	1,300									1,400											1,400
800		2	Constr	FY 21 Cast Iron/Piping Lining	335	318	17										17											17
800		2 D	es/Const	r FY 23 Cast Iron/Piping Lining	530	0	530										530											530
800		2	Constr	Gravity Sewer Rehab/Replacement	796	766	30	1,708		1,823		1,945		2,075		2,215	9,796		2,363		2,522		2,691		2,871		3,064	23,307
800		1		RCP Sewer Rehab (Alvarado Basin)					200	2,200	2,500						4,900											4,900

Fund	% Ra	ink Status	Project Name	Total Project Budget	Spent in Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	20-Year Total
800	:	1 Constr	RCP Sewer Rehab (Irvington Basin)	6,025	825	5,200						250	2,200	2,550		10,200											10,200
200		1	RCP Sewer Rehab (Newark Basin)							250	2,200	2 550				5,000											5,000
800		L	RCP Sewer Renab (Newark Basin)							230	2,200	2,330				5,000											5,000
Total for CO	LLECTIO	ON SYSTEM		9,086	1,909	5,877	3,008	770	4,023	3,357	4,145	3,448	4,275	3,242	2,215	34,360	738	2,363	788	2,522	841	2,691	897	2,871	957	3,064	52,092
			Total Priority 1 Collection System	7,425	825	5,300	1,300	200	2,200	2,750	2,200	2,800	2,200	2,550	0	21,500	0	0	0	0	0	0	0	0	0	0	21,500
			Total Priority 2 Collection System	1,661	1,084	577	1,708	570	1,823	607	1,945	648	2,075		2,215	12,860	738	2,363	788 0	2,522	841	2,691	897 0	2,871	957	3,064	30,592
			Total Priority 3 Collection System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	U	0	0	0	U	0	0	0	0
			Total Fund 800 - Collection System	9,086	1,909	5,877	3,008	770	4,023	3,357	4,145	3,448	-		2,215	34,360	738	2,363	788	2,522	841	2,691	897	2,871	957	3,064	52,092
			Total Fund 900 - Collection System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fund	% Ra	nk Status	Project Name	Total Project Budget	Spent in Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	20-Year Total
TRANSPORT	SYSTE	И																									
800	50	2	Alameda Creek Crossing Lift Station													0							768		4,574	5,591	10,933
	50		Alameda Creek Crossing Lift Station													0							768			5,591	10,933
900		1 Des/Con	str Cherry St. PS	543	105	320	118									438											438
300		1 Desycon	an energy starts	343	103	320	110									430											450
900	:	2	Equalization Storage @ Newark													0				3,066	9,407	21,951					34,424
800	:	1 Constr	Forcemain Corrosion Repairs - Phase 3	1,344	144	1,200										1,200											1,200
800		1 Dos/Con	str Forcemain Corrosion Repairs - Phase 4	1,400	0	100	1,400									1,500											1,500
800		i Des/Con	Su Porcemain Corrosion Repairs - Phase 4	1,400		100	1,400									1,300											1,500
800	:	3	Forcemain Rehabilitation													0						900	12,275	12,275	12,275	12,275	50,000
800	50	2 Constr	Irvington PS Pumps and VFDs	56	6	50			1,147	6,158	2,639					9,994											9,994
900	50	2 Constr	Irvington PS Pumps and VFDs	56	6	50			1,147	6,158	2,639					9,994											9,994
800	15	2 Constr	Newark and Irvington PS Chemical System Improve	4,382	332	675	2,250	1,125								4,050											4,050
			Newark and Irvington PS Chemical System Improve		406		2,750									4,950											4,950
800	50	2	Newark PS Pumps and VFDs									1.370	5,043	6.163		12,576											12,576
900			Newark PS Pumps and VFDs										5,043			12,576											12,576
800		3	Pump Station Asset Condition Assessment R&R					3,849	929	211			4,549			9,538		96	5,798		5,364			765			21,561
550			·					3,043					1,545						5,.50		3,30-1			, 55			
900		2	Sanctuary West Pump Station						1,500	1,500						3,000											3,000
800	;	3	Transport System Misc. Projects						250	250	250	250	250	250	250	1,750	250	250	250	250	250	250	250	250	250	250	4,250
Total for TR	ANSPOI	RT SYSTEM		13,137	999	3,220	6,518	6,349	4,973	14,277	5,528	2,990	14,885	12,576	250	71,566	250	346	6,048	3,316	15,021	23,101	14,061	13,290	21,673	23,707	192,379

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	20-Year Total
				Total Priority 1 Transport System	3,287	249	1,620	1,518	0	0	0	0	0	0	0	0	3,138	0	0	0	0	0	0	0	0	0	0	3,138
				Total Priority 2 Transport System	9,850	750	1,600	5,000	2,500	3,794	13,816	5,278		10,086		0	57,140	0	0	0	3,066	9,407	21,951		0	9,148	11,182	113,430
				Total Priority 3 Transport System	0	0	0	0	3,849	1,179	461	250	250	4,799	250	250	11,288	250	346	6,048	250	5,614	1,150	12,525	13,290	12,525	12,525	75,811
				Total Fund 800 - Transport System	7,182	482	2,025	3,650	4,974	2,326	6,619	2,889	1,620	9,842	6,413	250	40,608	250	346	6,048	250	5,614	1,150	13,293	13,290	17,099	18,116	116,064
				Total Fund 900 - Transport System	5,955	517	1,195	2,868	1,375	2,647	7,658	2,639	1,370	5,043	6,163	0	30,958	0	0	0	3,066	9,407	21,951	768	0	4,574	5,591	76,315
					In	Spent in																						
Fund	%	Rank	Status	Project Name	Total Project Budget	Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	20-Year Total
TREATM	NT PLA	NT																										
900		2	Constr	Aeration Blower 11 and East Blower Bldg Improve	n 2,270	2,155	115										115											115
800	F0	2	Constr	Alvarado Influent PS Improvements	5,633	5,393	240										240											240
<b>800</b> 900		2		Alvarado Influent PS Improvements  Alvarado Influent PS Improvements	5,633	5,393											240											240
						,																						
800		2		Alvarado Influent Valve Box Gate Valves 1-2				50	500								550											550
800	50	2	Constr	Centrifuge Building Improvements	813	803	10										10											10
900		2		Centrifuge Building Improvements	813	803	10										10											10
<b>800</b> 900	<b>50</b> 50			Centrifuge Replacement Centrifuge Replacement						<b>583</b> 583	1,325 1,325	-	2,585 2,585				9,664 9,664											9,664 9,664
900	30			Centinuge Replacement						363	1,323	3,171	2,363				3,004											3,004
800		2		Centrifuge System Equipment Replacement						927	1,263	7,666	4,472				14,328											14,328
									525								F2F	625								750		4.000
800 900	50 50			Cogen Engine No. 1 60K Block Replacement  Cogen Engine No. 1 60K Block Replacement					525 525								525 525	625 625								750 750		1,900 1,900
300	30	-		Cogen Engine No. 1 ook block Replacement					323								525	023								, 50		2,300
800	50			Cogen Engine No. 2 60K Block Replacement				500						575			1,075						725					1,800
900	50	1		Cogen Engine No. 2 60K Block Replacement				500						575			1,075						725					1,800
800	50	2		Cogen Retrofit											271	1,230	1,501											1,501
900	50	2		Cogen Retrofit												1,230	1,501											1,501
000		2		Control Pay No. 4 Incompany							622	4 425	1,896				6.042											6.042
800		2		Control Box No. 1 Improvements							022	4,423	1,090				6,943											6,943
800		2		Degritter Building Roof (Seismic) Replacement										610	3,383	1,450	5,443											5,443
											0.40	F 420	2 227				0.704											0.704
900	50 50			Degritting at Headworks and Improvements  Degritting at Headworks and Improvements							948 948		2,327 2,327				8,704 8,704											8,704 8,704
		_									3.3	3,123					5,201											0,7 0 1
800		3		Diffuser Replacement													0		504	781	807							2,092
900		3		Digester Additional Capacity													0											0
900		J		Discoster Additional Capacity																								
800		2		Digester No. 1 Insp & Rehab						358	1,998	1,332					3,688						732	2,996	2,996			10,412
800		1		Digester No. 2 Insp & Rehab													0			576	3,318	2,212						6,106
																		0.010	2 22-									
800		3		Digester No. 3 Insp & Rehab												522	522	3,010	2,007									5,539
800		3		Digester No. 4 Insp & Rehab						430	2,398	1,599					4,427						740	4,267	2,845			12,279
				,							· ·														•			

Fund	%	Rank	Status	Project Name	Total Project Budget	Prior	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	20-Year Total
800		3		Digester No. 5 Insp & Rehab		Years							474	2,731	1,820		5,025									553	3,186	8,764
																	-											
800		3	Design	Digester No. 6 Insp & Rehab	7,050	0	479	2,278	4,571							1,005	8,333	4,109	4,109									16,551
800		3		Digester No. 7 Insp & Rehab													0			1,550	6,341	6,341						14,232
900		1	Constr	Digester No. 7	28,643	28,443	200										200											200
800	50	1	Constr	Emergency Outfall Outlet Improvements	1,256	1,226											30											30
900	50	1	Constr	Emergency Outfall Outlet Improvements	1,256	1,226											30											30
800	60	1	Constr	ETSU - 1A - Aeration Basin Modifications	46,441				11,460								39,476											39,476
900	40	1	Constr	ETSU - 1A - Aeration Basin Modifications	30,961	4,643	3,720	7,440	7,640	7,518							26,318											26,318
800	40	1	Constr	ETSU - 1A - Aeration Basin No. 8	10,673	729	3,680	4,880	1,384								9,944											9,944
900	60	1	Constr	ETSU - 1A - Aeration Basin No. 8	16,010	1,094	5,520	7,320	2,076								14,916											14,916
800	60	1	Constr	ETSU - 1A - Aeration Internal Lift Pumps	5,891	268	2,220	1,920	1,483								5,623											5,623
900	40	1	Constr	ETSU - 1A - Aeration Internal Lift Pumps	3,928	179	1,480	1,280	989								3,749											3,749
800	60	1	Constr	ETSU - 1A - Blower 7-10 Replacement	12,041	826	4,260	3,821	2,460	674							11,215											11,215
900	40	1	Constr	ETSU - 1A - Blower 7-10 Replacement	8,027	550	2,840	2,547	1,640	450							7,477											7,477
800		1	Constr	ETSU - 1A - Plant 12kV Switchgear (SWGR-SE)	5,458	470	3,100	1,888									4,988											4,988
800	50	1	Constr	ETSU - 1A - Site Drainage Improvements	4,429	0	500	2,329	1,600								4,429											4,429
900	50	1	Constr	ETSU - 1A - Site Drainage Improvements	4,429	0	500	2,329	1,600								4,429											4,429
800	60	1	Design	ETSU - 1B - Secondary Clarifiers	89,877	1,248	1,200	7,500		30,600	19,546						88,629											88,629
900	40	1	Design	ETSU - 1B - Secondary Clarifiers	59,918	832	800	5,000	17,920	20,400	13,031	1,935					59,086											59,086
800	60	1	Design	ETSU - 1B - Switchboard 4 Replacement	1,194	0	90	270	834								1,194											1,194
900	40	1	Design	ETSU - 1B - Switchboard 4 Replacement	796	0	60	180	556								796											796
800	60	1	Design	ETSU - 1B - Effluent Facilities	28,943	669	600	2,880	8,520		5,917						28,274											28,274
900	40	1	Design	ETSU - 1B - Effluent Facilities	19,296	446	400	1,920	5,680	6,440	3,945	465					18,850											18,850
				ETSU - 1C - Plant Equalization Storage	9,905	0				300	450	7,855					9,905											9,905
900	75	1	Design	ETSU - 1C - Plant Equalization Storage	29,713	0				900	1,350	23,563	3,900				29,713											29,713
	50			ETSU - 2 - Nutrient Removal (Level 2 Year-round)													0								36,329			135,334
900	50	3		ETSU - 2 - Nutrient Removal (Level 2 Year-round)													0						2,774	11,463	36,329	48,439	36,329	135,334
800		2		Flares Replacement				706	4,083	1,750							6,539											6,539
800		2		Headworks Gates										500	3,702		4,202											4,202
800		2		MCC Replacement								50	491				541											541
800		2	Des/Cons	etr Miscellaneous Improvements	1,900	170	650	1,080									1,730											1,730
800		2		Odor Scrubber System Improvements					631	1,295	5,686	4,823	1,475	370	2,927	1,280	18,487	7,096	4,407	7,572	3,694	3,557	799	6,326				51,938
800		2		Plant 1 and 2 Water System Improvements						105	1,069						1,174											1,174

Fund 9	6 R	ank Stat	us Project Name	Total Project Budget	Spent in Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	20-Year Total
800		2	Plant 5kV Switchgear				379	2,713	1,163							4,255											4,255
800		2	Plant 12kV Switchgear					1,068	4,722	4,722						10,512											10,512
800 5	0	3	Plant Additional Power Source													0					250	2,000	2,750				5,000
		3	Plant Additional Power Source													0					250	2,000					5,000
800		2	Plant Asset Condition Assessment R&R				157	4,934	497		979	827	3,562	3,648	7,877	22,481	1,132	2,646	406	247		398		1,062	4,403	24,516	57,291
800 5			onstr Plant Fiber Optic Network	700	0	100	600					200	300	300	300	1,800	300	400									2,500
900 5	0	2 Des/Co	onstr Plant Fiber Optic Network	700	0	100	600					200	300	300	300	1,800	300	400									2,500
800		2	Plant Mechanical and Electrical Projects				500	500	500	500	500	500	500	500	500	4,500	500	500	500	500	500	500	500	500	500	500	9,500
800		2 Con	str PLC Replacement	250	0	250		300				350				900	400				450				500		2,250
800		1	Primary Clarifier (1 - 4) Seismic Upgrade					753	4,315	1,849						6,917											6,917
	<b>5</b>		Primary Clarifier Rehab (5-6) Primary Clarifier Rehab (5-6)					1,271 424	6,004 2,001	<b>6,172</b> 2,057	3,858 1,286					<b>17,305</b> 5,768											<b>17,305</b> 5,768
	<i>J</i>	2						727	2,001	2,037	1,200					0											0
900		3	Reclaimed Water Reclaimed Water													0											0
800		3 Desi	gn Secondary Digester No. 1 Insp & Rehab	1,170	0	115	500	555								1,170			508	4,723							6,401
800		3	Secondary Digester No. 2 Insp & Rehab						367	3,413						3,780					542	5,039					9,361
800		2	Seismic Retrofit of Conc. Structures				300		300		300		300		300	1,500		300		300		300		300		300	3,000
800		2 Des/Co	onstr Sodium Hypochlorite Loop Improvements	1,170	170	500	500									1,000											1,000
800		1 Con	str Standby Power Generation System Upgrade	27,754	3,381	8,490	14,883	1,000								24,373											24,373
900		3	Standby Power Generator No. 4													0				2.269	14,468	7.234					23,971
800		2 Des/Co	onstr Switchboard 3 and MCC 25 Replacement	2,690	50	1 400	1,240									2,640				,	,						2,640
			Thickeners 1 and 2 Rehabilitation	2,030	30	1,400	214	1,726	740							2,680											2,680
800		2					214	1,720	740									620	2.070								
800		3	Thickeners 3 and 4 Rehabilitation													0		638	3,070								3,708
800		1 Desi	gn WAS Thickeners	22,442	1,312	250	250	8,250	8,250	4,130						21,130											21,130
900		3	Waste Recycling and Alternative Energy										1,500	9,000		10,500											10,500
Total for TRE	ATME	NT PLANT		500,071	69,444	49,759	89,901	127,051	123,108	84,664	85,436	25,909	11,823	26,122	15,994	639,767	18,097	15,911	14,963	22,199	28,570	26,740	42,515	80,361	104,334	101,160	1,094,617
			Total Priority 1 Treatment Plant Total Priority 2 Treatment Plant	469,280 22,571	54,507 14,937		80,797 6,326	103,775 18,150		50,218 28,635				0 15.302	0 14.467	424,891 181,119	1,250 9.728	0 8.653				1,450 2,729		0 4,858	1,500 5.403	0 25,316	435,197 265,354
			Total Priority 3 Treatment Plant	8,220	0	594	2,778	5,126	797	5,811			4,231												97,431	-	394,066
			Total Fund 800 - Treatment Plant	287,679	23,680	33,744	60,785	88,001	84,816	62,008	47,587	16,897	9,448	16,551	14,464	434,301	17,172	15,511	14,963	19,930	13,852	14,007	28,302	44,032	55,145	64,831	722,046

Fund % Rank Status	Project Name	Total Project Budget	Spent in Prior Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28		FY 30	FY 31	FY 32	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	20-Year Total
-	Total Fund 900 - Treatment Plant	212,392	45,764	16,015	29,116	39,050	38,292	22,656	37,849	9,012	2,375	9,571	1,530	205,466	925	400	0	2,269	14,718	12,733	14,213	36,329	49,189	36,329	372,571
	Project Type	Total Project Budget	Years	FY 23	FY 24	FY 25 23,137	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32 2,397	10-Year Total	FY 33	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40 673	FY 41 278	FY 42	20-Year Total
	Administrative Facilities	100,771	5,528	, , -	53,811		, -	0	1,070	400				,		959				2.691	007			704	105,294
	Collection System	9,086	1,909	5,877	3,008	770	4,023	3,357	4,145	3,448	4,275	3,242	2,215	34,360	738	2,363 346	788 6.048	2,522	841	,	897	2,871	957	3,064	52,092
	Transport System	13,137	999	3,220 49.759	6,518	6,349	4,973	14,277	5,528	2,990 25,909	14,885 11,823	12,576	250	71,566	250 18,097		14,963	3,316	15,021		14,061		21,673	23,707	192,379
	Treatment Plant	500,071	69,444	49,759	89,901	127,051	123,108	84,664	85,436	25,909	11,823	26,122	15,994	639,767	18,097	15,911	14,963	22,199	28,570	26,740	42,515	80,361	104,334	101,160	1,094,617
	GRAND TOTAL	623,065	77,880	76,478	153,238	157,307	133,877	102,298	96,179	32,747	31,525	42,610	20,856	847,115	19,085	19,579	21,799	28,652	44,432	53,175	57,473	97,195	127,242	128,635	1,444,382
						•	·				·	·	-			<u> </u>	<u> </u>		•			•	·	•	
	R&R (Fund 800) Total	404,518	31,599	59,118	121,254	116,832	92,938	71,984	55,691	22,365	24,107	26,541	18,410	609,240	18,160	18,994	21,799	23,317	20,307	18,491	42,492	60,866	73,340	86,715	993,721
	Capacity (Fund 900) Total	218,547	46,281	17,360	31,984	40,475	40,939	30,314	40,488	10,382	7,418	16,069	2,446	237,875	925	585	0	5,335	24,125	34,684	14,981	36,329	53,902	41,920	450,661
	Priority 1																								
	Administrative Facilities	,-	4,790	17,300	53,011	23,037	1,473	0	0	0	0	0	0	94,821	0	0	0	0	0	0	0	0	0	0	94,821
	Collection System		825	5,300	1,300	200	2,200	2,750	2,200	2,800	2,200	2,550	0	21,500	0	0	0	0	0	0	0	0	0	0	21,500
	Transport System	3,287	249	1,620	1,518	0	0	0	0	0	0	0	0	3,138	0	0	0	0	0	0	0	0	0	0	3,138
	Treatment Plant		54,507	45,550	80,797	103,775	100,783	50,218	37,418	5,200	1,150	0	0	424,891	1,250	0	576	3,318	2,212	1,450	0	0	1,500	0	435,197
	Total Priority 1 Projects	579,603	60,371	69,770	136,626	127,012	104,456	52,968	39,618	8,000	3,350	2,550	0	544,350	1,250	U	576	3,318	2,212	1,450	0	0	1,500	U	554,656
	Priority 2																								
	Administrative Facilities	1.160	738	322	500	100	300	0	320	150	342	670	2,197	4,901	0	389	0	415	0	443	n	473	278	504	7,403
	Collection System	1,661	1,084	577	1,708	570	1,823	607	1,945	648	2,075	692	2,215	12,860	738	2,363	788	2,522	841	2,691	897	2,871	957	3,064	30,592
	Transport System	9,850	750	1,600	5,000	2,500	3,794	13,816	5,278	2,740	10,086	12,326	0	57,140	0	0	0	3,066	9,407	21,951		0	9,148	11,182	113,430
	Treatment Plant		14,937	3,615	6,326	18,150	21,528	28,635	46,419		6,442		14,467	181,119	9,728	8,653	8,478	4,741	4,507	2,729	9,822	4,858	5,403	25,316	265,354
	Total Priority 2 Projects	35,242	17,509	6,114	13,534	21,320	27,445	43,058	53,962	23,773	18,945	28,990	18,879	256,020	10,466	11,405	9,266	10,744	14,755	27,814	12,255	8,202	15,786	40,066	416,779
	Priority 3																								
	Administrative Facilities	0	0	0	300	0	0	0	750	250	200	0	200	1,700	0	570	0	200	0	200	0	200	0	200	3,070
	Collection System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Transport System	0	0	0	0	3,849	1,179	461	250	250	4,799	250	250	11,288	250	346	6,048	250	5,614	1,150		13,290	12,525	12,525	75,811
	Treatment Plant	-, -	0	594	2,778	5,126	797	5,811	1,599	474	4,231	10,820	1,527	33,757	7,119	7,258	5,909	14,140	21,851	22,561	•	75,503	97,431	75,844	394,066
	Total Priority 3 Projects	8,220	0	594	3,078	8,975	1,976	6,272	2,599	974	9,230	11,070	1,977	46,745	7,369	8,174	11,957	14,590	27,465	23,911	45,218	88,993	109,956	88,569	472,947