Union Sanitary District

Sewer Capacity Fee Update

Final 04/05/16

BARTLE WELLS ASSOCIATES
INDEPENDENT PUBLIC FINANCE ADVISORS

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April 5, 2016

Union Sanitary District
5072 Benson Road
Union City, California 94587

Re: Sewer Capacity Fee Update

Bartle Wells Associates is pleased to submit the attached *Sewer Capacity Fee Update*. The study calculates updated sewer capacity charges designed to equitably recover the costs of infrastructure and assets benefiting new development.

This capacity charge incorporates the same methodology and analysis used in the *2010 Capacity Fee Study*, amended to account for updated asset costs and a revised capital improvement program. As such, this update is a supplement or amendment to the 2010 study.

Water and sewer capacity charges are governed by California Government Code Section 66013 which states that the fee *"shall not exceed the estimated reasonable cost of providing the service for which the fee is imposed."* As such, the updated fees calculated in this report are maximum charges that the District can levy.

We enjoyed working with the District on this assignment and appreciate the input and assistance received from District staff. Please contact us anytime you have any questions about the updated sewer capacity fees or related issues.

BARTLE WELLS ASSOCIATES

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Principal

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Union Sanitary District
Sewer Capacity Fee Update
Summary of Key Findings

Background

In 2010, Bartle Wells Associates assisted the Union Sanitary District with development of a comprehensive Capacity Fee Study. The study calculated new capacity fees designed to recover the cost of infrastructure and assets benefiting new development. Since 2010, the District has been gradually increasing its capacity fees toward the maximum levels calculated in the 2010 study, with current fees remaining significantly lower than calculated in the 2010 study for most customer classes.

Capacity Fee Update

In 2015, the District retained BWA to update its Capacity Fees and calculate maximum fees based on new and updated information including:

- The District's updated fixed asset schedule as of June 30, 2014.
- The District's latest 10-Year CIP cost estimates under conservative, moderate, and aggressive CIP alternatives.
- New replacement cost estimates for the District's share of facilities owned by the East Bay Dischargers Authority (EBDA).
- Updated cost estimates for District facilities based on the May 2015 Engineering News-Record Construction Cost Index (20-Cities Average).

This fee update employs the same methodology used in the 2010 Capacity Fee Study and incorporates all of the discussion and analysis from the 2010 study, amended to account for the updated information. As such, this update is a supplement or amendment to the 2010 study.

Updated Maximum Capacity Fees

The update results in an increase to the District's maximum allowable Capacity Fees. The updated maximum fees per single family home or Equivalent Dwelling Unit are about 21% higher than the maximum fee calculated in the 2010 study, and about 59% higher than the District's current capacity fee.

	Capacity Fee per EDU
Maximum Fee Calculation from 2010 Study	$7,346
Current Adopted Capacity Fee (Effective 2014/15):	$5,596
2015 Updated Maximum Capacity Fee (Moderate CIP Scenario):	$8,898

Updated fees for all customer classes are shown on the attached table (under a moderate CIP scenario described below). The updated maximum fees for all residential and commercial customer classes are about 21% higher than the maximum fees calculated in the 2010 study. The updated industrial fees are based on updated unit costs for wastewater flow and strength, which represent the following increases from the maximum levels calculated in the 2010 study. As noted earlier, the District is not currently charging the fees calculated in the 2010 study:

- Volume Component: 23% increase from 2010 study
- COD Component: 8% increase from 2010 study
- SS Component: 11% increase from 2010 study

Attached charts show:

- A history of capacity fees per single family home since 1996 compared to the maximum allowable capacity fees calculated in the 2010 study and the 2015 update. The District has increased its capacity fees by an average of 4.6% per year over the period shown.
- A survey of current regional sewer capacity fees per single family home along with the District's updated 2015 maximum capacity fee calculation. Note that some of the other agencies are currently in the process of increasing their sewer capacity fees.

Capacity Fees Under CIP Alternatives

BWA calculated Capacity Fees under conservative, moderate, and aggressive 10-Year CIP alternatives. Updated fees per single family home or EDU under the three CIP alternatives are shown below. The differences in the CIP scenarios results in only slight differences in the Capacity Fee calculation as shown below:

	Capacity Fee per EDU
Conservative CIP	$8,809
Moderate CIP	$8,898
Aggressive CIP	$8,990

Projected Capacity Fee Revenues

BWA also updated the Capacity Fee revenue projections using a) the updated maximum fee per single family home or EDU under the moderate CIP scenario and b) prior growth scenarios for the District's service area developed by RMC Engineers.

Union Sanitary District
Current & Proposed Maximum Capacity Fees (Moderate CIP Scenario)

CONNECTION CATEGORY	CHARGE PER UNIT			UNIT DEFINITION	FLOW	BOD	SS	EDUs
	Current	2010 Max	2015 Update[1]		(Per Unit)	(mg/l)	(mg/l)	if applicable
RESIDENTIAL & COMMERCIAL								
Single Family Dwelling Unit[2]	$5,595.66	$7,346.29	$8,897.71	per unit *(new construction only; not additions or repairs)*	210	200	200	1.00
Multi-Family Dwelling Unit	$4,796.28	$6,296.82	$7,626.61	per unit *(new construction only; not additions or repairs)*	180	200	200	0.86
Commercial/Industrial/Office use (C/I/O) (Domestic Use Only) and Mixed Use Commercial Property with individual tenant units exceeding 10,000 square feet	$2.64	$3.30	$4.02	per square foot of building floor area	0.10	140	115	
Mixed-use Commercial property with individual tenant units less than 10,000 square feet	$6.36	$8.77	$10.49	per square foot of building floor area	0.22	440	320	
Boarding Establishments	$3,733.21	$4,897.53	$5,931.81	per unit, or	140	200	200	0.67
Including Hotels and Motels	$1,866.58	$2,448.76	$2,965.90	per capita design tenant	70	200	200	0.33
Schools and Day Care Centers (Boarding Facilities Excluded)	$2.99	$4.58	$5.58	per square foot of building floor area	0.14	130	100	
Churches (School & Day Care facilities	$2.12	$3.27	$3.98	per square foot of building	0.10	130	100	
Public Assembly Facilities	$133.30	$174.91	$211.85	per seat	5	200	200	
Health Clubs	$8.97	$13.73	$16.73	per square foot of building	0.42	130	100	
Park or Recreation Site Restrooms	$5,595.66	$7,346.29	$8,897.71	per water closet				1.00
Coin-operated Laundromats	$4,263.81	$5,293.48	$6,445.38	per washing machine	160	150	110	
Restaurants - All	$22.06	$25.59	$30.03	per square foot of building	0.50	1000	600	
Eating/Drinking facilities without cooking	$11.09	$8.75	$10.59	per square foot of building	0.25	200	200	
Car Wash with water recycling	$5,595.66	$7,346.29	$8,897.71	lump sum		20	150	1.00

Union Sanitary District
Current & Proposed Maximum Capacity Fees (Moderate CIP Scenario)

CONNECTION CATEGORY	CHARGE PER UNIT			UNIT DEFINITION	FLOW	BOD	SS	EDUs
	Current	2010 Max	2015 Update[1]		(Per Unit)	(mg/l)	(mg/l)	if applicable
Warehouses	$1.02	$1.40	$1.69	per square foot of building floor area up to 50,000 sq ft	0.04	200	200	
	$0.32	$0.35	$0.42	per square foot of building floor area for that portion of each building above 50,000 square feet	0.01	200	200	
Private cafeterias	$22.06	$25.59	$30.03	per square foot of floor area for food preparation, cooking, food storage, and food service areas (excluding seating areas)	0.50	1000	600	
Equipment Wash Pad with Interceptor	$5,595.66	$7,346.29	$8,897.71	lump sum, plus				1.00
	$17.18	$24.49	$29.66	per square foot for any additional pad area above 600 square feet	0.70	200	200	
Mobile Home/RV Holding Tank disposal station	$11,170.70	$14,692.58	$17,795.42	lump sum				2.00
Non-Standard Connections[3]	Varies	Varies	Varies	to be determined by District				
INDUSTRIAL								
Volume Component	$10.24	$20.25	$24.96	per 1,000 gallons of est. avg. annual discharge volume				
COD Component	$658.95	$518.66	$561.73	per 1,000 lbs of est. avg. annual COD demand loading				
SS Component	$1,421.64	$1,118.96	$1,239.89	per 1,000 lbs of est. avg. annual SS demand loading				

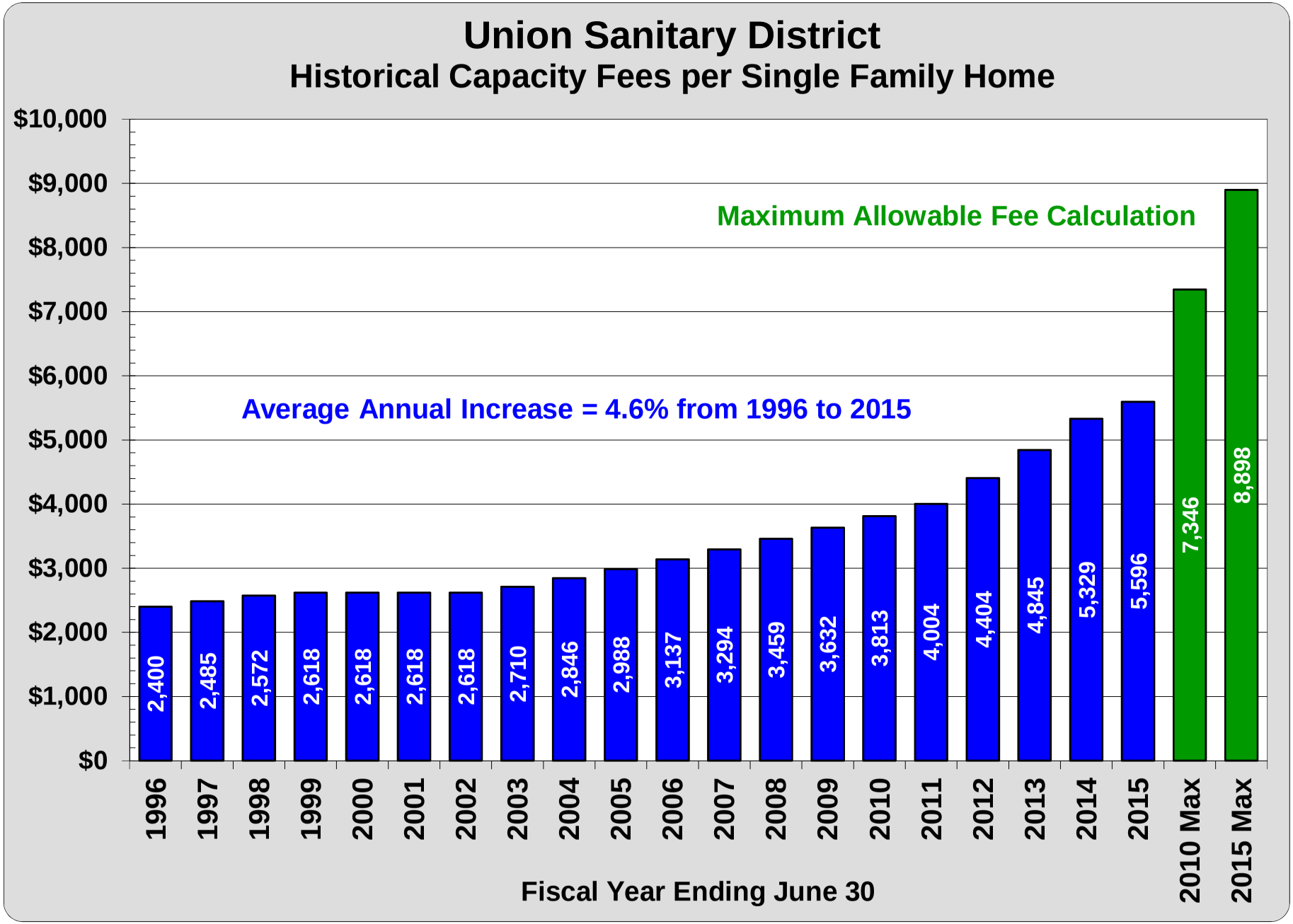
Industrial charges listed must be paid 4 times: once prior to permit issuance and at end of each year for 3 additional years.
If charges total less than $500, all charges shall be paid in one installment prior to permit issuance.

Note: The minimum charge per any initial connection shall equal the charge for a Multi-Family Residential Dwelling Unit.
The minimum charge was previously the charge for a Single Family Residence.

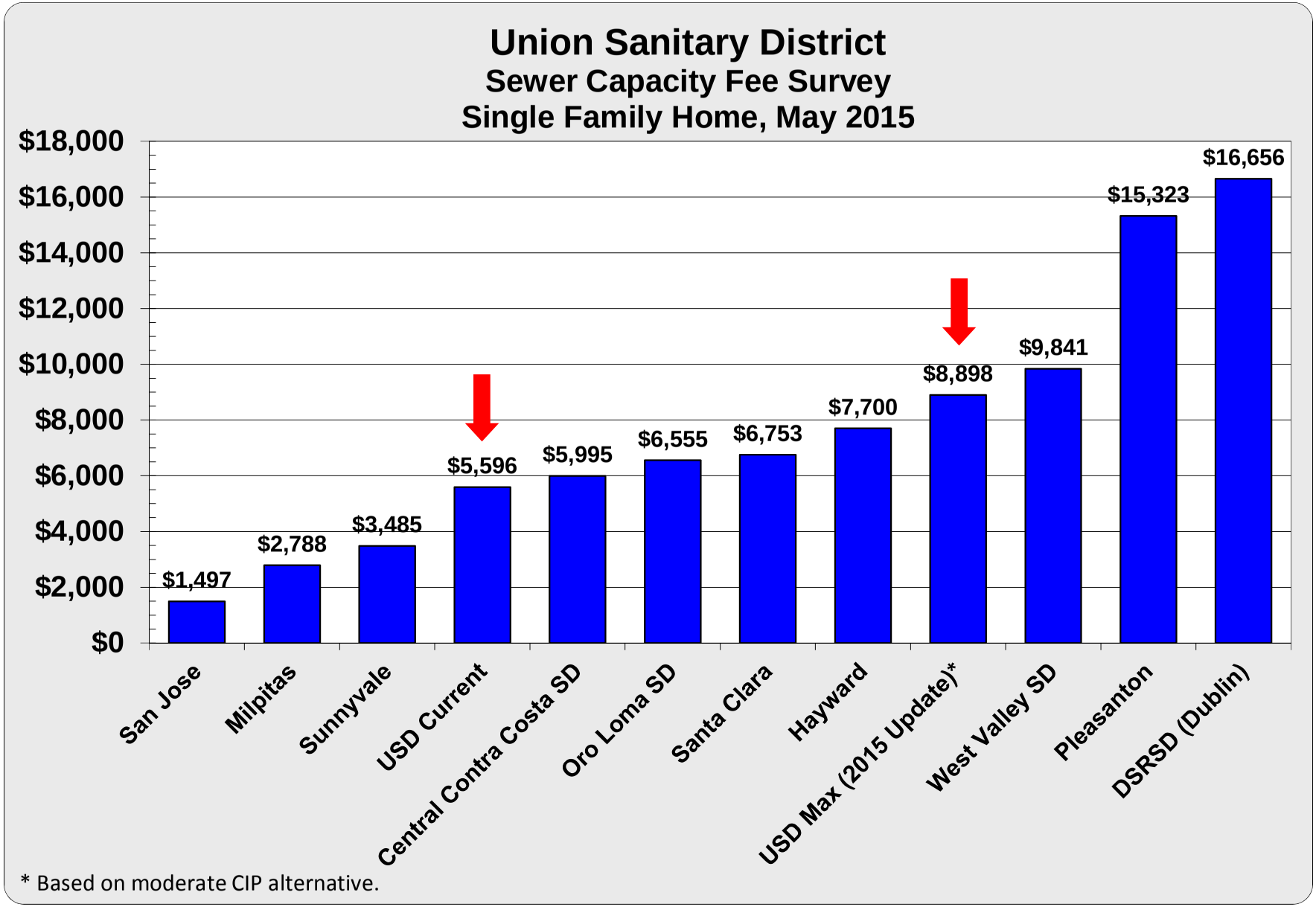
1 Proposed maximum fees are calculated based on the updated unit costs for flow, BOD, and SS applied to the estimated wastewater flow and strength characteristics of each type of connection.

2 Fee applies to homes with up to 4,500 square feet of building area; additional capacity fees for area in excess of 4,500 square feet shall be calculated on a pro-rata basis.

3 Capacity fees for other types of uses shall be determined by District staff based on estimated wastewater flow and strength.



BARTLE WELLS ASSOCIATES
BWA/Jobs/Union Sanitary District/444C/Union SD Capacity Fee Tables 6-5-15.xlsx/Hist Fee Chart



BARTLE WELLS ASSOCIATES
BWA/Jobs/Union Sanitary District/444C/Union SD Capacity Fee Tables 6-5-15.xlsx/SFR Fee Survey new

TABLES

Table 1
Union Sanitary District
Current Capacity Fees (Effective 2014/15)

Connection Category	Charge Per Unit	Unit Definition
RESIDENTIAL & COMMERCIAL		
Single Family Dwelling Unit	$5,595.66	per unit *(new construction only; not additions or repairs)*
Single Family Dwelling Unit (greater than 4,500 square feet)	$5,595.66 + (see right)	Charge per unit plus proportionate charge above 4,500 sq. ft. (e.g. charge for 4,600 sq. ft. = 4,600/4,500 x charge per unit)
Multi-Family Dwelling Unit	$4,796.28	per unit
Commercial/Industrial/Office use (C/I/O) (Domestic Use Only)	$2.64	per square foot of building floor area
Mixed Use Commercial Property with Individual Tenant Units less than 10,000 sq. ft.	$6.36	per square foot of building floor area
Boarding Establishments	$3,733.21	per unit, or
Including Hotels and Motels	$1,866.58	per capita design tenant
Schools and Day Care Centers (Boarding Facilities Excluded)	$2.99	per square foot of building floor area
Churches (School and Day Care facilities excluded)	$2.12	per square foot of building floor area
Public Assembly Facilities	$133.30	per seat
Health Clubs	$8.97	per square foot of building floor area
Park or Recreation Site restrooms	$5,595.66	per water closet
Coin-operated Laundromats	$4,263.81	per washing machine
Restaurants - All	$22.06	per square foot of building floor area
Eating/Drinking facilities without cooking facilities	$11.09	per square foot of building floor area
Car Wash with water recycling	$5,595.66	lump sum
Warehouses	$1.02	per square foot of building floor area up to 50,000 square feet
	$0.32	per square foot of building floor area for that portion of each building above 50,000 square feet
Private Cafeterias	$22.06	per square foot of floor area for food preparation, cooking, food storage, and food service areas (excluding seating areas)
Equipment Wash Pad in Interceptor	$5,595.66	lump sum, plus
	$17.18	per square foot for any additional pad area above 600 square feet
Mobile Home Holding Tank disposal station	$11,170.70	lump sum
Non-Standard Connections	Capacity charges for uses not listed in the above table shall be determined by the District Engineer based upon the volume and pollutant loadings of the wastewater to be discharged.	
INDUSTRIAL		
Volume Component	$10.24	per 1,000 gallons of est. avg. annual discharge volume
COD Component	$658.95	per 1,000 lbs of est. avg. annual COD demand loading
SS Component	$1,421.64	per 1,000 lbs of est. avg. annual SS demand loading
Industrial charges listed must be paid 4 times: once prior to permit issuance and at end of each year for 3 additional years. If charges total less than $500, all charges shall be paid in one installment prior to permit issuance.		
Note: The minimum charge per any initial connection shall equal the charge for a Single Family Dwelling Unit. Source: Resolution No. 2736/Ordinance No. 35.21		

Table 2
Union Sanitary District
Historical Capacity Fee Per Dwelling Unit

Fiscal Year Ending June 30	Capacity Fee per EDU	Annual % Change	Cumulative % Change
1996	$2,400.00	-	-
1997	$2,485.00	3.5%	3.5%
1998	$2,572.00	3.5%	7.2%
1999	$2,618.00	1.8%	9.1%
2000	$2,618.00	0.0%	9.1%
2001	$2,618.00	0.0%	9.1%
2002	$2,618.00	0.0%	9.1%
2003	$2,710.00	3.5%	12.9%
2004	$2,845.50	5.0%	18.6%
2005	$2,987.78	5.0%	24.5%
2006	$3,137.17	5.0%	30.7%
2007	$3,294.03	5.0%	37.3%
2008	$3,458.73	5.0%	44.1%
2009	$3,631.67	5.0%	51.3%
2010	$3,813.25	5.0%	58.9%
2011	$4,003.91	5.0%	66.8%
2012	$4,404.30	10.0%	83.5%
2013	$4,844.73	10.0%	101.9%
2014	$5,329.20	10.0%	122.1%
2015	$5,595.66	5.0%	133.2%
Average Annual Increase			4.6%

Table 3
Union Sanitary District
ACWD Average Monthly Water Use
Single Family Residential

	Estimated Single Family Use (gpd)	Average Annual Accounts	Average Monthly Use (gpd)		Estimated Single Family Use (gpd)	Average Annual Accounts	Average Monthly Use (gpd)
2005/06				**2006/07**			
Jul	31,917,962	69,636	458	Jul	32,032,430	70,091	457
Aug	28,981,378	69,636	416	Aug	31,714,390	70,091	452
Sep	26,440,793	69,636	380	Sep	26,363,887	70,091	376
Oct	24,453,641	69,636	351	Oct	21,644,122	70,091	309
Nov	18,684,974	69,636	268	Nov	17,560,983	70,091	251
Dec	15,917,410	69,636	229	Dec	16,768,230	70,091	239
Jan	16,549,794	69,636	238	Jan	16,739,586	70,091	239
Feb	13,353,399	69,636	192	Feb	15,768,051	70,091	225
Mar	13,690,339	69,636	197	Mar	18,586,703	70,091	265
Apr	18,306,106	69,636	263	Apr	20,133,252	70,091	287
May	24,499,917	69,636	352	May	26,058,618	70,091	372
Jun	28,161,814	69,636	404	Jun	29,211,011	70,091	417
Total	260,957,525	69,636	312	Total	272,581,263	70,091	324
Avg Use for Lowest 4 Months			214	Avg Use for Lowest 4 Months			238
Multiplier:	92.5%		198	Multiplier:	92.5%		221
2007/08				**2008/09**			
Jul	27,619,267	70,857	390	Jul	27,582,753	71,085	388
Aug	27,770,560	70,857	392	Aug	27,454,617	71,085	386
Sep	25,557,682	70,857	361	Sep	24,635,000	71,085	347
Oct	20,453,942	70,857	289	Oct	19,661,080	71,085	277
Nov	17,847,497	70,857	252	Nov	18,132,509	71,085	255
Dec	17,862,409	70,857	252	Dec	17,813,336	71,085	251
Jan	16,234,270	70,857	229	Jan	15,111,216	71,085	213
Feb	15,039,885	70,857	212	Feb	13,907,274	71,085	196
Mar	19,405,819	70,857	274	Mar	17,279,816	71,085	243
Apr	21,591,617	70,857	305	Apr	19,390,157	71,085	273
May	25,701,180	70,857	363	May	24,777,456	71,085	349
Jun	28,635,732	70,857	404	Jun	25,970,982	71,085	365
Total	263,719,860	70,857	310	Total	251,716,198	71,085	295
Avg Use for Lowest 4 Months			236	Avg Use for Lowest 4 Months			225
Multiplier:	92.5%		219	Multiplier:	92.5%		209
4-Year Average Use for 4 Lowest Months (gpd)							**228**
Multiplier:	**92.5%**						**211**

Table 4
Union Sanitary District
ACWD Average Monthly Water Use
Multi-Family Residential

	Estimated Multi-Family Use (gpd)	Estimated Annual Accounts[1]	Average Monthly Use (gpd)		Estimated Multi-Family Use (gpd)	Estimated Annual Accounts[1]	Average Monthly Use (gpd)
2005/06				**2006/07**			
Jul	8,680,492	33,863	256	Jul	8,861,092	34,192	259
Aug	8,717,198	33,863	257	Aug	8,860,478	34,192	259
Sep	8,257,184	33,863	244	Sep	8,347,415	34,192	244
Oct	7,236,807	33,863	214	Oct	7,612,253	34,192	223
Nov	6,007,978	33,863	177	Nov	6,491,403	34,192	190
Dec	6,004,021	33,863	177	Dec	6,600,660	34,192	193
Jan	7,054,528	33,863	208	Jan	6,582,734	34,192	193
Feb	6,015,573	33,863	178	Feb	6,002,018	34,192	176
Mar	5,328,796	33,863	157	Mar	6,936,123	34,192	203
Apr	6,080,335	33,863	180	Apr	6,800,171	34,192	199
May	7,645,838	33,863	226	May	7,646,349	34,192	224
Jun	8,182,595	33,863	242	Jun	8,180,212	34,192	239
Total	85,211,345	33,863	210	Total	88,920,907	34,192	217
Avg Use for 4 Low Months			180	Avg Use for 4 Low Months			188
Multiplier:	95%		171	Multiplier:	95%		178
2007/08				**2008/09**			
Jul	8,314,997	34,350	242	Jul	8,138,530	34,551	236
Aug	8,586,722	34,350	250	Aug	7,965,072	34,551	231
Sep	7,212,264	34,350	210	Sep	7,785,697	34,551	225
Oct	6,327,881	34,350	184	Oct	6,433,373	34,551	186
Nov	6,371,319	34,350	185	Nov	6,074,098	34,551	176
Dec	6,622,925	34,350	193	Dec	6,721,275	34,551	195
Jan	6,763,158	34,350	197	Jan	6,481,160	34,551	188
Feb	6,316,691	34,350	184	Feb	5,782,613	34,551	167
Mar	6,778,513	34,350	197	Mar	6,470,568	34,551	187
Apr	6,637,245	34,350	193	Apr	6,788,251	34,551	196
May	7,842,157	34,350	228	May	7,472,109	34,551	216
Jun	8,795,937	34,350	256	Jun	7,847,913	34,551	227
Total	86,569,809	34,350	210	Total	83,960,657	34,551	203
Avg Use for 4 Low Months			190	Avg Use for 4 Low Months			181
Multiplier:	95%		180	Multiplier:	95%		172
4-Year Average Use for 4 Lowest Continguous Months (gpd)							**185**
Multiplier:	**97.5%**						**180**

1 Based on census data for total housing units less number of ACWD single family residences; assumes a 100% occupancy rate.

Table 5
Union Sanitary District
Summary of District Fixed Assets & Valuation

Description	Acquisition Cost	Depreciation as of 6/30/14	Depreciated Book Value	ENR-Adjusted Cost 6/30/14	
				Book Value	Acquisition Cost
Treatment Plant Assets					
TREATMENT PLANT	$157,562,129	$73,621,978	$79,691,808	$120,337,824	$274,352,929
SUBTOTAL	157,562,129	73,621,978	79,691,808	120,337,824	274,352,929
Collection System Assets					
COLLECTION SYSTEM	133,522,435	61,844,665	71,677,770	108,916,472	281,123,774
CONTRIB-CS	205,113,683	122,650,269	82,463,414	163,064,243	1,005,998,513
LIFT STATION	3,098,310	274,362	2,823,948	3,011,829	3,483,470
SUBTOTAL	341,734,428	184,769,296	156,965,132	274,992,544	1,290,605,757
Pump Station & Conveyance to Treatment Plant					
PUMP STATION	34,612,806	9,750,055	24,862,751	30,660,613	46,541,499
TWIN FORCE	23,788,686	20,238,002	3,550,684	11,032,173	78,115,788
SUBTOTAL	58,401,491	29,988,057	28,413,435	41,692,786	124,657,287
General/Admin Assets					
BUILDING	73,250,838	31,381,163	41,598,664	59,462,118	136,250,540
COMPUTER	4,279,794	3,423,058	856,737	954,866	5,328,732
EQUIP-CS	480,651	303,913	176,738	212,786	620,404
EQUIPFMC	696,094	514,854	181,240	225,690	1,007,701
EQUIPLAB	170,357	164,544	5,813	7,484	267,947
EQUIPPORT	1,099,445	783,602	315,843	386,527	1,687,152
LAND*	771,485	0	771,485	848,804	848,804
OFFICE FURNITURE	737,573	438,689	298,884	452,293	1,110,336
RADIO	90,564	6,469	84,095	86,764	93,438
TELEPHONE	105,243	87,953	17,289	19,608	121,078
VEHICLES	5,150,913	2,823,090	2,327,823	2,566,809	6,637,980
SUBTOTAL	86,832,957	39,927,336	46,634,611	65,223,748	153,974,113
TOTAL	**644,531,006**	**328,306,667**	**311,704,985**	**502,246,902**	**1,843,590,086**

Table 6 Alternative Pipeline Valuation
Union Sanitary District
Collection System Replacement Cost

Pipeline Diameter	Length (feet)[1]	% of System	Replacement Cost $/LF[2]	Replacement Cost Total
5"	284	0.0%	$225 [3]	$63,900
6"	181,413	4.4%	225 [4]	40,817,925
8"	2,843,709	69.2%	225 [4]	639,834,525
10"	463,607	11.3%	230 [5]	106,629,610
12"	212,377	5.2%	235 [5]	49,908,595
14"	7,772	0.2%	310 [3]	2,409,320
15"	95,259	2.3%	310	29,530,290
16"	152	0.0%	310 [3]	47,120
18"	65,373	1.6%	335	21,899,955
20"	5,854	0.1%	360 [3]	2,107,440
21"	57,731	1.4%	360	20,783,160
24"	31,083	0.8%	385	11,966,955
27"	45,496	1.1%	410	18,653,360
30"	13,211	0.3%	450	5,944,950
33"	29,829	0.7%	500	14,914,500
36"	32,240	0.8%	550	17,732,000
39"	15,250	0.4%	575	8,768,750
42"	2,196	0.1%	600	1,317,600
48"	6,105	0.1%	700	4,273,500
Total	4,108,941	100.0%		997,603,455

Engineering New Record Construction Cost Index (ENR CCI) 20 Cities

Average Annual 2008	8310
May 2015	9979
Ratio	1.20
2014 Escalated Pipeline Replacement Cost	$1,197,964,486

1 Source: RMC Engineers, *Long-Term Gravity Sewer Renewal/Replacement Projections* Dated September 5, 2008; Page 2, Table 1.
2 Source: Based on same document as above, Page 7, Table 5.
3 Estimated based on replacement cost of nearest size pipeline.
4 For 6" and 8" pipe, cost assumes 80% pipe bursting and 20% open-cut replacement.
5 For 10" and 12" pipe, cost assumes 70% pipe bursting and 30% open-cut replacement.

Table 7
Union Sanitary District
Summary of EBDA Fixed Assets & Valuation[1]

EBDA Asset Class	Replacement Cost
Analyzer	$55,000
Air Relief Valve	$112,000
Automatic Valve Actuator	$56,579
Bio Assay System	$34,030
Building	$23,058,800
Compressor	$8,583
Cathodic Protection System	$10,000
Computer Equipment / Software	$74,769
Overhead Crane	$116,651
Drive Shaft	$67,054
Motor - Effluent	$489,760
Pump - Effluent	$1,786,029
Electric Entry Gate	$15,000
Flow Meter	$144,312
Forcemain	$225,132,720
Fencing	$22,000
Gearbox	$560,000
Genset	$716,471
Hoist / Crane	$33,079
Heat Exchanger	$93,511
HVAC System / Components	$47,250
Instruments	$124,107
Tank - Indoor	$67,198
Valve - Large	$1,942,008
Motor Control Center	$854,708
Motor - Medium	$37,187
Manhole	$2,100,000
Pump - Medium	$123,785
Valve - Medium	$13,825
Mixer	$46,264
Office Building	$750,000
Tank - Outdoor	$18,000
Pavement	$10,000
Programmable Logic Controller	$51,121
Panel	$518,343
SCADA	$173,451
Gate - Sluice or Slide	$857,565
Motor - Small	$12,106
Sampler	$9,075
Pump - Small	$55,995
Surge Tower	$8,000,000
Structure	$4,552,764
Transformer	$100,053
Transfer Switch	$58,756
Tank - Underground	$55,090
Vehicle	$21,762
Variable Frequency Drive	$582,820
Wet Well	$2,950,000
Yard Piping	$1,957,500
Total EBDA Assets	**$278,677,080**

Union Sanitary District Share of EBDA Facilities		
USD's Share of of EBDA Facils[2]	25.3%	$70,505,301

1 Source: Asset Report for USD Rate Study 5-20-2015
2 Source: EBDA Third Amended Joint Excercise of Powers Agreement, Schedule B, Fixed Cost Allocation.

Table 8
Union Sanitary District
CIP Scenarios ($000)

	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Total
CONSERVATIVE CIP											
Adminstrative Facilities											
Renewal & Replacement	$700	$5,500	$4,600	$300	$0	$250	$0	$0	$0	$0	$11,350
Capacity	150	1,500	0	0	0	0	0	0	0	0	1,650
Subtotal	850	7,000	4,600	300	0	250	0	0	0	0	13,000
Collection System											
Renewal & Replacement	4,450	4,500	750	1,000	2,900	2,300	5,800	900	1,900	1,800	26,300
Capacity	1,600	2,100	0	0	150	1,000	0	0	0	0	4,850
Subtotal	6,050	6,600	750	1,000	3,050	3,300	5,800	900	1,900	1,800	31,150
Transport System											
Renewal & Replacement	1,500	450	2,550	4,000	500	300	4,000	0	0	1,250	14,550
Capacity	1,850	1,050	2,550	3,600	500	3,500	3,500	300	3,000	250	20,100
Subtotal	3,350	1,500	5,100	7,600	1,000	3,800	7,500	300	3,000	1,500	34,650
Treatment											
Renewal & Replacement	7,625	7,900	11,088	12,438	14,900	7,300	8,050	8,800	11,400	11,100	100,600
Capacity	2,225	1,300	1,263	2,263	3,000	0	500	5,000	0	500	16,050
Subtotal	9,850	9,200	12,350	14,700	17,900	7,300	8,550	13,800	11,400	11,600	116,650
Total CIP											
Renewal & Replacement	14,275	18,350	18,988	17,738	18,300	10,150	17,850	9,700	13,300	14,150	152,800
Capacity	5,825	5,950	3,813	5,863	3,650	4,500	4,000	5,300	3,000	750	42,650
Total	20,100	24,300	22,800	23,600	21,950	14,650	21,850	15,000	16,300	14,900	195,450
MODERATE CIP											
Adminstrative Facilities											
Renewal & Replacement	925	5,850	1,575	225	0	250	0	0	0	0	8,825
Capacity	425	3,250	525	75	0	0	0	0	0	0	4,275
Subtotal	1,350	9,100	2,100	300	0	250	0	0	0	0	13,100
Collection System											
Renewal & Replacement	3,725	3,875	750	825	2,375	1,800	4,550	750	1,625	1,425	21,700
Capacity	2,225	2,725	0	175	675	1,500	1,250	150	275	375	9,350
Subtotal	5,950	6,600	750	1,000	3,050	3,300	5,800	900	1,900	1,800	31,050
Transport System											
Renewal & Replacement	2,200	450	2,550	4,000	500	225	3,250	0	0	1,250	14,425
Capacity	1,850	1,050	2,550	3,600	500	3,575	4,250	300	3,000	250	20,925
Subtotal	4,050	1,500	5,100	7,600	1,000	3,800	7,500	300	3,000	1,500	35,350
Treatment											
Renewal & Replacement	7,625	7,850	10,300	11,575	13,575	7,250	6,163	7,350	8,675	8,700	89,063
Capacity	2,225	1,350	2,050	3,125	4,325	50	2,388	6,450	2,725	2,900	27,588
Subtotal	9,850	9,200	12,350	14,700	17,900	7,300	8,550	13,800	11,400	11,600	116,650
Total CIP											
Renewal & Replacement	14,475	18,025	15,175	16,625	16,450	9,525	13,963	8,100	10,300	11,375	134,013
Capacity	6,725	8,375	5,125	6,975	5,500	5,125	7,888	6,900	6,000	3,525	62,138
Total	21,200	26,400	20,300	23,600	21,950	14,650	21,850	15,000	16,300	14,900	196,150
AGGRESSIVE CIP											
Adminstrative Facilities											
Renewal & Replacement	650	4,100	1,050	150	0	250	0	0	0	0	6,200
Capacity	700	5,000	1,050	150	0	0	0	0	0	0	6,900
Subtotal	1,350	9,100	2,100	300	0	250	0	0	0	0	13,100
Collection System											
Renewal & Replacement	3,225	3,500	750	650	1,850	1,300	3,300	600	1,350	1,050	17,575
Capacity	2,725	3,600	0	350	1,200	2,000	2,500	300	550	750	13,975
Subtotal	5,950	7,100	750	1,000	3,050	3,300	5,800	900	1,900	1,800	31,550
Transport System											
Renewal & Replacement	2,200	200	2,050	3,500	0	150	2,500	0	0	1,250	11,850
Capacity	1,850	800	3,050	4,100	1,000	3,650	5,000	300	3,000	250	23,000
Subtotal	4,050	1,000	5,100	7,600	1,000	3,800	7,500	300	3,000	1,500	34,850
Treatment											
Renewal & Replacement	7,625	7,800	9,613	10,813	12,250	7,200	4,275	5,900	5,950	6,300	77,725
Capacity	2,225	1,400	2,738	3,938	5,650	100	4,275	7,900	5,450	5,300	38,975
Subtotal	9,850	9,200	12,350	14,750	17,900	7,300	8,550	13,800	11,400	11,600	116,700
Total CIP											
Renewal & Replacement	13,700	15,600	13,463	15,113	14,100	8,900	10,075	6,500	7,300	8,600	113,350
Capacity	7,500	10,800	6,838	8,538	7,850	5,750	11,775	8,500	9,000	6,300	82,850
Total	21,200	26,400	20,300	23,650	21,950	14,650	21,850	15,000	16,300	14,900	196,200

Source: 10 YR CIP-041515Conservative. 10 YR CIP-033015Moderate. 10 YR CIP-032015Aggressive.

Table 9
Union Sanitary District
Facility Capacity

COLLECTION SYSTEM			
ADWF Design Capacity			
Irvington Basin	17.0	mgd	ADWF Design Capacity
Newark Basin	10.8	mgd	ADWF Design Capacity
Alvarado Basin	11.2	mgd	ADWF Design Capacity
Total	39.0	mgd	ADWF
PUMP STATIONS			
With one large pump on standby			
Irvington Basin	44.3	mgd	Maximum Pumping Capacity
Newark Basin	56.4	mgd	Maximum Pumping Capacity
Alvarado Basin	43.0	mgd	Maximum Pumping Capacity
FORCE MAIN CONVEYANCE TO WWTP			
Irvington to Newark			
Max capacity in boost mode	29.0	mgd	Max day
Max capacity in normal mode	14.5	mgd	Max day
Newark to WWTP			
Max capacity in to CB#1	59.0	mgd	Max day
Max design capacity	29.5	mgd	Max day
TREATMENT PLANT			
Permit Capacity	33.0	mgd	ADWF
Max Hydraulic Capacity	85.0	mgd	Capacity Test Report (June 1998)
EBDA PUMP STATION			
Reliable capacity with largest pump out of service	41.7	mgd	
EBDA EFFLUENT DISPOSAL FACILITIES			
Maximum capacity	42.9	mgd	

Table 10
Union Sanitary District
Capacity for Use in Fee Calculation

Treatment Plant Capacity			
Flow (ADWF)[1]	33	mgd	Average Dry Weather Flow
cBOD5 (ADWC)[2]	267	mg/l	Average Dry Weather Concentration
TSS (ADWC)[2]	257	mg/l	Average Dry Weather Concentration
TSS[3]	70,732	lbs/day	
cBOD5[3]	73,484	lbs/day	
BOD[4]	88,548	lbs/day	Assumes BOD = cBOD5 x 1.205
Collection System Assets			
Flow (ADWF)[5]	39	mgd	Average Dry Weather Flow
Pump Station & Conveyance to Treatment Plant			
Flow (ADWF)[6]	39	mgd	Average Dry Weather Flow
EBDA Effluent Disposal Facilities			
Flow (ADWF)	42.9	mgd	Average Dry Weather Flow

1 Source: NPDES Permit Capacity for Average Dry Weather Flow.
2 Source: *Raymond A Boege/Alvarado Wastewater Treatment Facilities Upgrade Project* , Sheet 2, Carollo Engineers, December 1992.
3 Calculated based on permit flow capacity and engineering design strength concentrations.
4 Source: Union Sanitary District; based on lab analysis of wastewater influent.
5 Based on estimated buildout capacity from master plan updates for the District's 3 basins.
6 Assumes pump stations are adequate to handle buildout capacity of each basin.

Table 11
Union Sanitary District
Wastewater Treatment Plant Equipment Cost Allocation

Bldg No.	Description	Asset Value June 2009[1]	Weighted Average	Percentage Utilization[2]				Cost Allocation			
				TSS	BOD	Flow	Total	TSS	BOD	Flow	Total
31	OCB Chemical Storage	73,384	X	34%	44%	22%	100%	24,962	32,110	16,312	73,384
50	Alvarado Pump Station	6,645,367				100%	100%	-	-	6,645,367	6,645,367
51	Primary Building 1 - 4	14,382,851		70%	10%	20%	100%	10,067,996	1,438,285	2,876,570	14,382,851
52	Primary Building 5 - 6	13,464,234		75%	15%	10%	100%	10,098,176	2,019,635	1,346,423	13,464,234
53	Aeration 5 - 7	13,906,670		10%	70%	20%	100%	1,390,667	9,734,669	2,781,334	13,906,670
54	Aeration 1 - 4	13,963,239		15%	75%	10%	100%	2,094,486	10,472,429	1,396,324	13,963,239
55	Pump Room 2	17,825,994		15%	75%	10%	100%	2,673,899	13,369,496	1,782,599	17,825,994
56	Pump Room 4	14,695,074		15%	75%	10%	100%	2,204,261	11,021,305	1,469,507	14,695,074
57	Reclaimed Wtr Pump Room[3]	3,291,054		45%	45%	10%	100%	1,480,974	1,480,974	329,105	3,291,054
60	OCB	14,728,929	X	34%	44%	22%	100%	5,010,074	6,444,823	3,274,032	14,728,929
62	Yard Piping	23,734,109				100%	100%	-	-	23,734,109	23,734,109
63	Anaerobic Digestion	20,752,927		50%	50%		100%	10,376,464	10,376,464	-	20,752,927
64	Heat and mix3 dig 4&5	23,838,112		50%	50%		100%	11,919,056	11,919,056	-	23,838,112
65	Secondary Dig 1&2	17,725,349		50%	50%		100%	8,862,674	8,862,674	-	17,725,349
66	Solids handling building	3,304,257		50%	50%		100%	1,652,128	1,652,128	-	3,304,257
68	Maintenance Shop	7,650,043	X	34%	44%	22%	100%	2,602,177	3,347,370	1,700,496	7,650,043
69	Engine Generator Rm No. 1	4,677,580	X	34%	44%	22%	100%	1,591,088	2,046,732	1,039,760	4,677,580
70	Control Building	43,571	X	34%	44%	22%	100%	14,821	19,065	9,685	43,571
71	Engine Generator rm No. 2	1,402,122	X	34%	44%	22%	100%	476,935	613,516	311,672	1,402,122
72	Electrical Switchboard No.2	301,050	X	34%	44%	22%	100%	102,403	131,728	66,919	301,050
73	Heat and mix 2 digester no 3	10,134,836		50%	50%		100%	5,067,418	5,067,418	-	10,134,836
74	Double ended substation	2,311,350	X	34%	44%	22%	100%	786,210	1,011,359	513,780	2,311,350
76	Paint shop	174,091	X	34%	44%	22%	100%	59,217	76,175	38,698	174,091
77	Was thickener building	5,457,078		20%	80%		100%	1,091,416	4,365,662	-	5,457,078
78	Engine Generator Rm 3	9,817,469	X	34%	44%	22%	100%	3,339,431	4,295,754	2,182,284	9,817,469
79	Headworks	9,668,557				100%	100%	-	-	9,668,557	9,668,557
80	Heat and Mix 4 and dig 6	1,826,054		50%	50%		100%	913,027	913,027	-	1,826,054
81	Centifuge building	19,451,764		50%	50%		100%	9,725,882	9,725,882	-	19,451,764
82	Admin Building	11,370,967	X	34%	44%	22%	100%	3,867,857	4,975,506	2,527,605	11,370,967
	WWTP Sitework	35,136,851	X	34%	44%	22%	100%	11,951,868	15,374,558	7,810,424	35,136,851
	Other	527,287	X	34%	44%	22%	100%	179,358	230,721	117,208	527,287
TOTAL		**322,282,222**		**34.0%**	**43.8%**	**22.2%**	**100%**	**109,624,924**	**141,018,524**	**71,638,774**	**322,282,222**

1 Based on asset price data from the WAM database adjusted by the change in the ENR-CCI (20-Cities Avg) from acquisition date to June 2009.
2 Source: Union Sanitary District
3 Excludes 40% of costs, roughly $2.2 million, to account for the EBDA pump station.

Table 12a
Union Sanitary District
Recoverable Costs - Moderate CIP

	Total Recoverable Cost	Multiplier	Discounted Cost For Capacity Fee Recovery
Treatment Plant Assets			
Cost of Existing Assets (May 2015 $)[1]	$274,352,929	90%	$246,917,636
Expansion-Related CIP Projects	27,587,500	90%	24,828,750
Subtotal	301,940,429		271,746,386
Collection System Assets			
Cost of Existing Assets (May 2015 $) [1]	*$1,290,605,757*	*not used*	
Alternative Pipeline Valuation[2]	1,197,964,486	90%	$1,078,168,037
Value of Lift Stations[1]	3,483,470	90%	3,135,123
Expansion-Related CIP Projects	9,350,000	90%	8,415,000
Subtotal	1,210,797,956		1,089,718,160
Pump Station & Conveyance			
Cost of Existing Assets (May 2015 $)[1]	$124,657,287	90%	$112,191,558
Expansion-Related CIP Projects	20,925,000	90%	18,832,500
Subtotal	145,582,287		131,024,058
General/Administrative Facilities & Assets			
Cost of Existing Assets (May 2015 $)[1]	$153,974,113	90%	$138,576,702
Expansion-Related CIP Projects	4,275,000	90%	3,847,500
Subtotal	158,249,113		142,424,202
EBDA Effluent Disposal Facilities			
Cost of Existing Assets (May 2015 $)[1]	$70,505,301	90%	$63,454,771
TOTAL	**$1,887,075,086**		**$1,698,367,578**

1 Based on ENR-adjusted purchase price.
2 Based on pipeline diameter, length, and replacement cost per linear foot.
Note: Excludes CIP costs for repairs & replacements to existing assets.

Table 13a
Union Sanitary District
Cost Allocation - Moderate CIP

	Cost for Fee Recovery	Cost Allocation %			Cost Allocation $		
		Flow	BOD	SS	Flow	BOD	SS
Treatment Plant	$271,746,386	22.2%	43.8%	34.0%	$60,405,373	$118,905,951	$92,435,061
Collection System	1,089,718,160	100.0%	0.0%	0.0%	1,089,718,160	0	0
Pump Station & Conveyance	131,024,058	100.0%	0.0%	0.0%	131,024,058	0	0
General/Admin Facilities & Assets	142,424,202	50.0%	25.0%	25.0%	71,212,101	35,606,051	35,606,051
EBDA Effluent Disposal Facilities	63,454,771	100.0%	0.0%	0.0%	63,454,771	0	0
Total	1,698,367,578	83.4%	9.1%	7.5%	1,415,814,464	154,512,002	128,041,112

Table 14a
Union Sanitary District
Unit Cost Calculations - Moderate CIP

	FLOW		BOD		SS	
Treatment Plant						
Cost Allocation	$60,405,373		$118,905,951		$92,435,061	
Capacity	33	mgd	88,548	lbs/day	70,732	lbs/day
Unit Cost	$1,830,466	per mgd	$1,342.84	per lb/day	$1,306.84	per lb/day
	1.830	per gpd				
	$5.01	per 1000 glns	$3,679.02	per 1000 lbs	$3,580.39	per 1000 lbs
Collection System						
Cost Allocation	$1,089,718,160					
Capacity	39	mgd				
Unit Cost	$27,941,491	per mgd				
	27.941	per gpd				
	$76.55	per 1000 glns				
Pump Station & WWTP Conveyance						
Cost Allocation	$131,024,058					
Capacity	39	mgd				
Unit Cost	$3,359,591	per mgd				
	3.360	per gpd				
	$9.20	per 1000 glns				
General/Admin Facilities & Assets						
Cost Allocation	$71,212,101		$35,606,051		$35,606,051	
Capacity	39	mgd	88,548	lbs/day	70,732	lbs/day
Unit Cost	$1,825,951	per mgd	$402.11	per lb/day	$503.40	per lb/day
	1.826	per gpd				
	$5.00	per 1000 glns	$1,101.67	per 1000 lbs	$1,379.17	per 1000 lbs
EBDA Effluent Disposal Facilities						
Cost Allocation	$63,454,771					
Capacity	42.9	mgd				
Unit Cost	$1,479,132	per mgd				
	1.479	per gpd				
	$4.05	per 1000 glns				
	FLOW		**BOD**		**SS**	
Total Unit Costs	**$36,436,632**	**per mgd**	**$1,744.95**	**per lb/day**	**$1,810.24**	**per lb/day**
	$36.44	**per gpd**				
	$99.83	**per 1000 gls**	**$4,780.70**	**per 1000 lbs**	**$4,959.56**	**per 1000 lbs**
COD Conversion			**COD**			
Assumes BOD = COD x 0.47			**$820.13**	**per lb/day**		
			$2,246.93	**per 1000 lbs**		

Table 15a
Union Sanitary District
Capacity Fee per EDU - Moderate CIP

	FLOW		BOD		SS		TOTAL
EDU Definition[1]	210	gpd	200	mg/l	200	mg/l	
			0.128	1000 lbs	0.128	1000 lbs	
Unit Costs	$36.44	per gpd	$4,780.70	per 1000 lbs	$4,959.56	per 1000 lbs	
Capacity Charge	$7,652.40		$611.22		$634.09		**$8,897.71**

1 An Equivalent Dwelling Unit (EDU) represents the wastewater discharge from a typical single family home.

Table 16a
Union Sanitary District
Industrial Capacity Fees - Moderate CIP

	FLOW		COD		SS	
Proposed Industrial Fees						
Unit Costs	$99.83	per 1000 gallons	$2,246.93	per 1000 lbs	$4,959.56	per 1000 lbs
	36.44	per gpd	820.13	per lb/day	1,810.24	per lb/day
Divided by 4	24.96	per 1000 gallons	561.73	per 1000 lbs	1,239.89	per 1000 lbs
	9.11	per gpd	205.03	per lb/day	452.56	per lb/day

Note: Industrial fees are collected in 4 installments including an initial charge plus three additional charges for each subsequent year based on actual wastewater flow and strength from the prior annual period.

Table 17a
Union Sanitary District
Wastewater Flow Estimates - Moderate CIP

CONNECTION CATEGORY	UNIT DEFINITION	FLOW ESTIMATE	SOURCE / COMPARISONS
RESIDENTIAL & COMMERCIAL			
Single Family Dwelling Unit	per unit *(new construction only; not additions or*	210 gpd per dwelling unit	BWA analysis of 4 years of ACWD water data Union Sanitary District current flow estimate: 210 gpd
Multi-Family Dwelling Unit	per unit *(new construction only; not additions or*	180 gpd per dwelling unit	BWA analysis of 4 years of ACWD water data Union Sanitary District current flow estimate: 210 gpd
Commercial/Industrial/Office use (C/I/O) (Domestic Use Only) and Mixed Use Commercial Property with individual tenant units exceeding 10,000 square feet	per square foot of building floor area	0.10 gpd per square foot	Union Sanitary District current flow estimate: 0.10 gpd/sf West Valley Sanitary District: Office Building 0.14 gpd/sf, Retail Stores: 0.072-0.076 gpd/sf Mountain View: Commercial 0.10 gpd/sf, Office/R&D 0.15 gpd/sf Dublin San Ramon Services District: General Office Building/General Retail/Commercial 0.05 gpd/sf LA County SD#2: Office Building 0.20 gpd/sf, Store 0.10 gpd/sf Palo Alto: Gen Commercial 0.125 gpd/sf San Jose: 0.10 gpd/sf Sacramento Regional CSD: 0.2 - 0.3 EDUs/1000 sf (est. 0.05 - 0.075 gpd/sf)
Boarding Establishments	per unit, or per capita design tenant	140 gpd per unit 70 gpd per capita	Union Sanitary District current flow estimate: 140 gpd/unit, 70 gpd/capita West Valley SD: Hotel/Motel 120 gpd/room (w/ dining), 50 gpd (w/o dining), Convalescent 520 gpd/bed LA County SD#2: Hotel/Motel 125 gpd/room, Convalescent 125/bed Victorville: Hotel/Motel about 125 gpd/room (w/o kitchen), 185 gpd/room (w/ kitchen) Sacramento Regional CSD: 0.2 EDUs/bed 0.4 EDUs/room (est. 100 gpd/room) Monterey Regional WPCA: Hotel/Motel 82 gpd/room, Transient Occupancy 210 gpd/unit Dublin San Ramon Services District: Hotels Motels (excluding dining facilities) 130 gpd/room
Schools and Day Care Centers (Boarding Facilities Excluded)	per square foot of building floor area	0.14 gpd per square foot	West Valley SD: School/Day Care 0.183 gpd/sf LA County SD#2: Private School 0.20 gpd/sf Literature Search - User Discharge Classification: Schools 0.20 gpd/per sf (references SWRCB) Union Sanitary District current flow estimate: 0.14 gpd/sf
Churches (School & Day Care facilities excluded)	per square foot of building floor area	0.10 gpd per square foot	Union Sanitary District: Church 0.28 gpd/sf LA County SD#2: Church 0.50 gpd/sf Victorville: Church 0.025 gpd/sf (w/o kitchen) 0.050 gpd/sf (w/ kitchen) Sacramento Regional CSD: est. 0.070 gpd/sf
Public Assembly Facilities	per seat	5 gpd per seat	Union Sanitary District current flow estimate: 5 gpd per seat SWRCB G-24 Theater 5 gpd per seat, Visitor Center 5 gpd per visitor SWRCB G-23: Assembly Hall 2 gpd per seat, Theater 3 gpd per seat; West Valley SD: Auditorium/Halls 0.11 gpd/sf Dublin San Ramon SD: Theater 2 gpd per seat, Banquet Facilities with Intermittant use 0.27 gpd/sf LA County SD#2: Club & Lodge Halls 0.125 gpd/sf, Auditorium 0.35 gpd/sf
Health Clubs (with fitness equipment, showers, and/or pool)	per square foot of building floor area	0.42 gpd per square foot	Union Sanitary District current flow estimate: 0.42 gpd/sf LA County SD#2: Health Spa/Gym 0.30 gpd/sf (w/o showers), 0.60 gpd/sf (w/ showers) West Valley SD: Health Studios/Gyms 0.20 gpd/sf (w/o showers), 0.42 gpd/sf (w/ showers) Sacramento Regional CSD: Gyms/Health Clubs est. 0.075 gpd/sf Livermore: Gyms/Health Clubs 0.30 gpd/sf Dublin San Ramon Services District: Gyms/Health Clubs 0.42 gpd/sf
Park or Recreation Site restrooms	per water closet	1.0 EDU	Union Sanitary District current fee: 1.0 EDU
Coin-operated Laundromats	per washing machine	160 gpd per machine	Union Sanitary District current flow estimate: 160 gpd/machine (*a recent USD review of several laundromats* estimated the conversion to flow per square foot at 3.12 gpd/sf) Dublin San Ramon Services District: 130 gpd/machine Victorville: about 120 gpd/machine West Valley SD: 2.52 gpd/sf

Table 17a
Union Sanitary District
Wastewater Flow Estimates - Moderate CIP

CONNECTION CATEGORY	UNIT DEFINITION	FLOW ESTIMATE	SOURCE / COMPARISONS
Restaurants - All	per square foot of building floor area	0.50 gpd per square foot	Union Sanitary District current flow estimate: 0.50 gpd/sf *(District survey of water use from 44 full service and 44 fast food restaurants from 1993/94 and 1994/95 averaged 0.57 gpd/sf)* West Valley Sanitary District: Full Svc 1.01 gpd/sf, Fast Food 0.90 gpd/sf) Milpitas: Large Restaurant 1.04 gpd/sf, Small Restaurant 0.60 gpd/sf Dublin San Ramon SD: Full Service 0.54 gpd/sf, Fast Food 0.60 gpd/sf Sacramento Regional CSD: 0.37-0.44 gpd/sf Mt. View: Restaurant 1.0 gpd/sf LA County SD#2: Restaurant 1.0 gpd/sf
Eating/Drinking facilities without cooking facilities	per square foot of building floor area	0.25 gpd/ square foot	Union Sanitary District current flow estimate: 0.25 gpd/sf (1/2 of a regular restaurant) West Valley Sanitary District: Bars 0.072 gpd/sf Dublin San Ramon Services District: Bars/Coctail Lounges/Taverns w/o dining 0.35 gpd/sf SWRCB 35 gpd per seat
Car Wash with water recycling	lump sum	1.0 EDU	Union Sanitary District current fee: 1.0 EDU West Valley SD: Car Wash 1.70 gpd/sf Dublin San Ramon Services District 1.70 gpd/sf LA County SD#2: Car Wash Tunnel 2.70 gpd/sf (w/ recycling), Wand 0.70 gpd/sf
Mixed-use Commercial property with individual tenant units less than 10,000 square feet	per square foot of building floor area	0.22 gpd per square foot	Assumes 70% standard strength commercial flow and 30% restaurant flow based on District analysis of a sample of existing mixed-use parcels
Warehouses	per square foot of building floor area up to 50,000 square feet	0.04 gpd per square foot	Union Sanitary District current flow estimate: 0.04 gpd/sf (Brown & Caldwell 1996 Capacity Fee Analysis) Dublin San Ramon Services District: Warehouse/Distribution 0.03 gpd/sf West Valley Sanitary District: Warehouse 0.052 gpd/sf LA County SD#2: Warehousing 0.025 gpd/sf Victorville: Warehouse 0.0125 gpd/sf
	per square foot of building floor area for that portion of each building above 50,000 square feet	0.01 gpd per square foot	Union Sanitary District current flow estimate: 0.01 gpd/sf (Brown & Caldwell 1996 Capacity Fee Analysis)
Private cafeterias	per square foot of floor area for food preparation, cooking, food storage, and food service areas (excluding seating areas)	0.50 gpd per square foot	Union Sanitary District current flow estimate: 0.50 gpd/sf West Valley Sanitary District: Cafeteria Style Restaurant 0.71 gpd/sf Dublin San Ramon Services District: Cafeteria (day use) 0.40 gpd/sf
Equipment Wash Pad with Interceptor	lump sum, plus	1 EDU	Union Sanitary District current fee: 1.0 EDU
	per square foot for any additional pad area above 600 square feet	0.70 gpd per square foot	Union Sanitary District current flow estimate: 0.07 gpd/sf
Mobile Home/RV Holding Tank disposal station	lump sum	2 EDUs	Union Sanitary District current fee: 2.0 EDUs
Miscellaneous	to be determined by District		

Table 18a
Union Sanitary District
Proposed Maximum Capacity Fees - Moderate CIP

CONNECTION CATEGORY	CHARGE PER UNIT			UNIT DEFINITION	FLOW	BOD	SS	EDUs
	Current	2010 Max	2015 Update[1]		(Per Unit)	(mg/l)	(mg/l)	if applicable
RESIDENTIAL & COMMERCIAL								
Single Family Dwelling Unit[2]	$5,595.66	$7,346.29	$8,897.71	per unit *(new construction only; not additions or repairs)*	210	200	200	1.00
Multi-Family Dwelling Unit	$4,796.28	$6,296.82	$7,626.61	per unit *(new construction only; not additions or repairs)*	180	200	200	0.86
Commercial/Industrial/Office use (C/I/O) (Domestic Use Only) and Mixed Use Commercial Property with individual tenant units exceeding 10,000 square feet	$2.64	$3.30	$4.02	per square foot of building floor area	0.10	140	115	
Mixed-use Commercial property with individual tenant units less than 10,000 square feet	$6.36	$8.77	$10.49	per square foot of building floor area	0.22	440	320	
Boarding Establishments	$3,733.21	$4,897.53	$5,931.81	per unit, or	140	200	200	0.67
Including Hotels and Motels	$1,866.58	$2,448.76	$2,965.90	per capita design tenant	70	200	200	0.33
Schools and Day Care Centers (Boarding Facilities Excluded)	$2.99	$4.58	$5.58	per square foot of building floor area	0.14	130	100	
Churches (School & Day Care facilities	$2.12	$3.27	$3.98	per square foot of building	0.10	130	100	
Public Assembly Facilities	$133.30	$174.91	$211.85	per seat	5	200	200	
Health Clubs	$8.97	$13.73	$16.73	per square foot of building	0.42	130	100	
Park or Recreation Site Restrooms	$5,595.66	$7,346.29	$8,897.71	per water closet				1.00
Coin-operated Laundromats	$4,263.81	$5,293.48	$6,445.38	per washing machine	160	150	110	
Restaurants - All	$22.06	$25.59	$30.03	per square foot of building	0.50	1000	600	
Eating/Drinking facilities without cooking	$11.09	$8.75	$10.59	per square foot of building	0.25	200	200	
Car Wash with water recycling	$5,595.66	$7,346.29	$8,897.71	lump sum		20	150	1.00

Table 18a
Union Sanitary District
Proposed Maximum Capacity Fees - Moderate CIP

CONNECTION CATEGORY	CHARGE PER UNIT			UNIT DEFINITION	FLOW	BOD	SS	EDUs
	Current	2010 Max	2015 Update[1]		(Per Unit)	(mg/l)	(mg/l)	if applicable
Warehouses	$1.02	$1.40	$1.69	per square foot of building floor area up to 50,000 square	0.04	200	200	
	$0.32	$0.35	$0.42	per square foot of building floor area for that portion of each building above 50,000 square feet	0.01	200	200	
Private cafeterias	$22.06	$25.59	$30.03	per square foot of floor area for food preparation, cooking, food storage, and food service areas (excluding seating areas)	0.50	1000	600	
Equipment Wash Pad with Interceptor	$5,595.66	$7,346.29	$8,897.71	lump sum, plus				1.00
	$17.18	$24.49	$29.66	per square foot for any additional pad area above 600 square feet	0.70	200	200	
Mobile Home/RV Holding Tank disposal station	$11,170.70	$14,692.58	$17,795.42	lump sum				2.00
Non-Standard Connections[3]	Varies	Varies	Varies	to be determined by District				
INDUSTRIAL								
Volume Component	$10.24	$20.25	$24.96	per 1,000 gallons of est. avg. annual discharge volume				
COD Component	$658.95	$518.66	$561.73	per 1,000 lbs of est. avg. annual COD demand loading				
SS Component	$1,421.64	$1,118.96	$1,239.89	per 1,000 lbs of est. avg. annual SS demand loading				

Industrial charges listed must be paid 4 times: once prior to permit issuance and at end of each year for 3 additional years.
If charges total less than $500, all charges shall be paid in one installment prior to permit issuance.

Note: The minimum charge per any initial connection shall equal the charge for a Multi-Family Residential Dwelling Unit.
The minimum charge was previously the charge for a Single Family Residence.

1 Proposed maximum fees are calculated based on the updated unit costs for flow, BOD, and SS applied to the estimated wastewater flow and strength characteristics of each type of connection.

2 Fee applies to homes with up to 4,500 square feet of building area; additional capacity fees for area in excess of 4,500 square feet shall be calculated on a pro-rata basis.

3 Capacity fees for other types of uses shall be determined by District staff based on estimated wastewater flow and strength.

Table 19
Union Sanitary District
Historical Capacity Fee Revenues - Moderate CIP

Fiscal Year Ending June 30	Capacity Fee Revenues 1	Capacity Fee Per EDU	Est. Number of Connections	Est. Number of Paid EDUs
2000	$6,285,294	$2,618.00		2,401
2001	$9,010,445	$2,618.00		3,442
2002	$2,188,019	$2,618.00		836
2003	$1,665,970	$2,710.00		615
2004	$3,411,559	$2,845.50		1,199
2005	$3,173,183	$2,987.78		1,062
2006	$3,819,854	$3,137.17		1,218
2007	$3,503,054	$3,294.03		1,063
2008	$3,746,046	$3,458.73		1,083
2009	$2,467,083	$3,631.67		679
2010	$2,467,083	$3,813.25	863	647
2011	$3,381,963	$4,003.91	536	845
2012	$2,848,488	$4,404.30	70	647
2013	$3,062,836	$4,844.73	573	632
2014	$3,315,007	$5,329.20	295	622
2015 (1)	$4,210,990	$5,595.66		753
16-Year Total	$58,556,874			17,743
16-Year Avg	$3,659,805			1,109

1 Capacity fee revenues through April 2015
Source: Union Sanitary District, District-Wide Revenues and Other Financing Sources.

Table 20
Union Sanitary District
Estimated Capacity Fee Revenues (Current Fees) - Moderate CIP

Based on Current Capacity Fees & RMC Development Projections

Annual Fee Escalation	2.0%

Year	1	2	3	4	5	6	7	8	9	10	Total
DEVELOPMENT PROJECTIONS[1]											
Slow Growth: Avg Annual Growth = Roughly 925 EDUs[2]											
Single Family (DU)	7	64	339	111	43	320	320	320	320	320	2,164
Multi-Family (DU)	162	263	1,090	2,433	740	110	110	110	110	110	5,238
Commercial (SF)	0	282,000	750,000	527,000	177,000	21,600	21,600	21,600	21,600	21,600	1,844,000
R&D/Industrial (SF)	66,000	74,000	462,000	405,000	122,000	178,800	178,800	178,800	178,800	178,800	2,023,000
Fast Growth: Avg Annual Growth = Roughly 3,670 EDUs[2]											
Single Family (DUs)	28	1,364	833	580	28	38	38	38	38	38	3,023
Multi-Family (DUs)	182	808	2,003	5,836	182	312.6	312.6	312.6	312.6	312.6	10,574
Commercial (SF)	17,000	1,126,000	253,000	1,732,000	17,000	7,745,600	7,745,600	7,745,600	7,745,600	7,745,600	41,873,000
Industrial (SF)	270,000	1,012,000	326,000	270,000	270,000	991,000	991,000	991,000	991,000	991,000	7,103,000
CURRENT CAPACITY FEES + ANNUAL FEE ESCALATION											
Single Family (per EDU)	$5,596	$5,708	$5,822	$5,938	$6,057	$6,178	$6,302	$6,428	$6,557	$6,688	
Multi-Family (per EDU)	4,796	4,892	4,990	5,090	5,192	5,296	5,402	5,510	5,620	5,732	
Commercial (per SF) est.	2.64	2.69	2.74	2.79	2.85	2.91	2.97	3.03	3.09	3.15	
Industrial (per SF) est.	2.64	2.69	2.74	2.79	2.85	2.91	2.97	3.03	3.09	3.15	
REVENUE PROJECTIONS											
Slow Growth											
Single Family (DU)	$39,170	$365,312	$1,973,658	$659,118	$260,451	$1,976,960	$2,016,640	$2,056,960	$2,098,240	$2,140,160	$13,586,669
Multi-Family (DU)	776,997	1,286,596	5,439,100	12,383,970	3,842,080	582,560	594,220	606,100	618,200	630,520	26,760,343
Commercial (SF)	0	758,580	2,055,000	1,470,330	504,450	62,856	64,152	65,448	66,744	68,040	5,115,600
Industrial (SF)	174,240	199,060	1,265,880	1,129,950	347,700	520,308	531,036	541,764	552,492	563,220	5,825,650
Total	990,407	2,609,548	10,733,638	15,643,368	4,954,681	3,142,684	3,206,048	3,270,272	3,335,676	3,401,940	51,288,262
Fast Growth											
Single Family (DUs)	$156,678	$7,785,712	$4,849,726	$3,444,040	$169,596	$234,764	$239,476	$244,264	$249,166	$254,144	$17,627,566
Multi-Family (DUs)	872,923	3,952,736	9,994,970	29,705,240	944,944	1,655,530	1,688,665	1,722,426	1,756,812	1,791,823	54,086,069
Commercial (SF)	44,880	3,028,940	693,220	4,832,280	48,450	22,539,696	23,004,432	23,469,168	23,933,904	24,398,640	125,993,610
Industrial (SF)	712,800	2,722,280	893,240	753,300	769,500	2,883,810	2,943,270	3,002,730	3,062,190	3,121,650	20,864,770
Total	1,787,281	17,489,668	16,431,156	38,734,860	1,932,490	27,313,800	27,875,843	28,438,588	29,002,072	29,566,257	218,572,015

1 Source: RMC projections of annual service connections in the District's service area developed for the Alvarado Basin Sewer Master Plan Update; projections are based on information from the planning departments of Union City, Fremont, and Newark.

2 Number of EDUs estimated based on revenues divided by capacity fee per EDU.

Note: Union Sanitary District Moderate 10-Year CIP = $196,150,000 including $134,012,500 for R&R and $62,137,500 for Capacity improvements.

Table 21a
Union Sanitary District
Estimated Capacity Fee Revenues A (Updated Fees) - Moderate CIP

Based on Updated Capacity Fees & RMC Development Projections

Annual Fee Escalation	2.0%

Year	1	2	3	4	5	6	7	8	9	10	Total
DEVELOPMENT PROJECTIONS[1]											
Slow Growth: Avg Annual Growth = Roughly 840 EDUs[2]											
Single Family (DU)	7	64	339	111	43	320	320	320	320	320	2,164
Multi-Family (DU)	162	263	1,090	2,433	740	110	110	110	110	110	5,238
Commercial (SF)	0	282,000	750,000	527,000	177,000	21,600	21,600	21,600	21,600	21,600	1,844,000
R&D/Industrial (SF)	66,000	74,000	462,000	405,000	122,000	178,800	178,800	178,800	178,800	178,800	2,023,000
Fast Growth: Avg Annual Growth = Roughly 3,400 EDUs[2]											
Single Family (DUs)	28	1,364	833	580	28	38	38	38	38	38	3,023
Multi-Family (DUs)	182	808	2,003	5,836	182	312.6	312.6	312.6	312.6	312.6	10,574
Commercial (SF)	17,000	1,126,000	253,000	1,732,000	17,000	7,745,600	7,745,600	7,745,600	7,745,600	7,745,600	41,873,000
Industrial (SF)	270,000	1,012,000	326,000	270,000	270,000	991,000	991,000	991,000	991,000	991,000	7,103,000
PROPOSED CAPACITY FEES + ANNUAL FEE ESCALATION											
Single Family (per EDU)	$8,898	$9,076	$9,258	$9,443	$9,632	$9,825	$10,022	$10,222	$10,426	$10,635	
Multi-Family (per EDU)	7,627	7,779	7,935	8,094	8,256	8,421	8,589	8,761	8,936	9,115	
Commercial (per SF) est.	4.02	4.10	4.18	4.26	4.35	4.44	4.53	4.62	4.71	4.80	
Industrial (per SF) est.	4.02	4.10	4.18	4.26	4.35	4.44	4.53	4.62	4.71	4.80	
REVENUE PROJECTIONS											
Slow Growth											
Single Family (DU)	$62,284	$580,864	$3,138,462	$1,048,173	$414,176	$3,144,000	$3,207,040	$3,271,040	$3,336,320	$3,403,200	$21,605,559
Multi-Family (DU)	1,235,511	2,045,877	8,649,150	19,692,702	6,109,440	926,310	944,790	963,710	982,960	1,002,650	42,553,100
Commercial (SF)	0	1,156,200	3,135,000	2,245,020	769,950	95,904	97,848	99,792	101,736	103,680	7,805,130
Industrial (SF)	265,410	303,400	1,931,160	1,725,300	530,700	793,872	809,964	826,056	842,148	858,240	8,886,250
Total	1,563,205	4,086,341	16,853,772	24,711,195	7,824,266	4,960,086	5,059,642	5,160,598	5,263,164	5,367,770	80,850,039
Fast Growth											
Single Family (DUs)	$249,136	$12,379,664	$7,711,914	$5,476,940	$269,696	$373,350	$380,836	$388,436	$396,188	$404,130	$28,030,290
Multi-Family (DUs)	1,388,043	6,285,432	15,893,805	47,236,584	1,502,592	2,632,405	2,684,921	2,738,689	2,793,394	2,849,349	86,005,214
Commercial (SF)	68,363	4,616,600	1,057,540	7,378,320	73,950	34,390,464	35,087,568	35,784,672	36,481,776	37,178,880	192,118,133
Industrial (SF)	1,085,767	4,149,200	1,362,680	1,150,200	1,174,500	4,400,040	4,489,230	4,578,420	4,667,610	4,756,800	31,814,447
Total	2,791,310	27,430,896	26,025,939	61,242,044	3,020,738	41,796,259	42,642,555	43,490,217	44,338,968	45,189,159	337,968,084

1 Source: RMC projections of annual service connections in the District's service area developed for the Alvarado Basin Sewer Master Plan Update; projections are based on information from the planning departments of Union City, Fremont, and Newark.
2 Number of EDUs estimated based on revenues divided by capacity fee per EDU.
Note: Union Sanitary District Moderate 10-Year CIP = $196,150,000 including $134,012,500 for R&R and $62,137,500 for Capacity improvements.

Table 22a
Union Sanitary District
Estimated Capacity Fee Revenues B (Updated Fees) - Moderate CIP

Annual Fee Escalation	2.0%

Year	1	2	3	4	5	6	7	8	9	10	Total
BASED ON CURRENT CAPACITY FEES											
Capacity Fee	**$5,596**	**$5,708**	**$5,822**	**$5,938**	**$6,057**	**$6,178**	**$6,302**	**$6,428**	**$6,557**	**$6,688**	
500 EDUs	500	500	500	500	500	500	500	500	500	500	5,000
Revenues	$2,797,830	$2,854,000	$2,911,000	$2,969,000	$3,028,500	$3,089,000	$3,151,000	$3,214,000	$3,278,500	$3,344,000	$30,636,830
1000 EDUs	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
Revenues	$5,595,660	$5,708,000	$5,822,000	$5,938,000	$6,057,000	$6,178,000	$6,302,000	$6,428,000	$6,557,000	$6,688,000	$61,273,660
1500 EDUs	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,000
Revenues	$8,393,490	$8,562,000	$8,733,000	$8,907,000	$9,085,500	$9,267,000	$9,453,000	$9,642,000	$9,835,500	$10,032,000	$91,910,490
2000 EDUs	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
Revenues	$11,191,320	$11,416,000	$11,644,000	$11,876,000	$12,114,000	$12,356,000	$12,604,000	$12,856,000	$13,114,000	$13,376,000	$122,547,320
BASED ON PROPOSED CAPACITY FEES											
Capacity Fee	**$8,898**	**$9,076**	**$9,258**	**$9,443**	**$9,632**	**$9,825**	**$10,022**	**$10,222**	**$10,426**	**$10,635**	
500 EDUs	500	500	500	500	500	500	500	500	500	500	5,000
Revenues	$4,448,855	$4,538,000	$4,629,000	$4,721,500	$4,816,000	$4,912,500	$5,011,000	$5,111,000	$5,213,000	$5,317,500	$48,718,355
1000 EDUs	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
Revenues	$8,897,710	$9,076,000	$9,258,000	$9,443,000	$9,632,000	$9,825,000	$10,022,000	$10,222,000	$10,426,000	$10,635,000	$97,436,710
1500 EDUs	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,000
Revenues	$13,346,565	$13,614,000	$13,887,000	$14,164,500	$14,448,000	$14,737,500	$15,033,000	$15,333,000	$15,639,000	$15,952,500	$146,155,065
2000 EDUs	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
Revenues	$17,795,420	$18,152,000	$18,516,000	$18,886,000	$19,264,000	$19,650,000	$20,044,000	$20,444,000	$20,852,000	$21,270,000	$194,873,420

Note: Union Sanitary District Moderate 10-Year CIP = $196,150,000 including $134,012,500 for R&R and $62,137,500 for Capacity improvements.

APPENDIX A

10-Year Capital Improvement Plan

CONSERVATIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
April 15, 2015
(All Figures x$1,000)

ADMINISTRATIVE FACILITIES

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800		1	Admin/Field Ops Bldg. Sesmic Upgrade a	200	1,000	1,000								**2,200**
900		1	Admin/Field Ops Bldg. Sesmic Upgrade and Leak Repairs											**0**
800		3	Additional CS (Vehicle) Storage	50	200									**250**
800		2	FMC Bldg. - New	400	3,900	3,500								**7,800**
900		2	FMC Bldg. - New											**0**
800		2	FMC Bldgs Renovation			100	300							**400**
900		2	FMC Bldgs Renovation											**0**
800		3	FMC Storage	50	200									**250**
800		3	Plant Paving		200				250					**450**
900		3	Solar Panels at Alvarado - Phase II	150	1,500									**1,650**
Total for ADMINISTRATIVE FACILITIES				**850**	**7,000**	**4,600**	**300**	**0**	**250**	**0**	**0**	**0**	**0**	**13,000**

COLLECTION SYSTEM

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800		1	Alvarado-Niles Sewer Rehab	2,000	2,000									**4,000**
900		1	Alvarado-Niles Sewer Rehab											**0**
800		2	Cast Iron/Pipe Lining		500		500		500		500		500	**2,500**
900		2	Cast Iron/Pipe Lining											**0**
800		2	Misc. C S Projects		250	250	300	300	300	300	300	300	300	**2,600**
800		2	RCP Sewer Rehab (Alvarado Basin)						200	2,000	100	1,000		**3,300**
900		2	RCP Sewer Rehab (Alvarado Basin)											**0**
800		2	RCP Sewer Rehab (Irvington Basin)				200	2,000	300	3,000				**5,500**
900		2	RCP Sewer Rehab (Irvington Basin)											**0**
800		2	RCP Sewer Rehab (Newark Basin)					100	1,000			100	1,000	**2,200**
900		2	RCP Sewer Rehab (Newark Basin)											**0**
800	0.50	2	Newark Backyard Relocation	1,500	1,500									**3,000**
900	0.50	2	Newark Backyard Relocation	1,500	1,500									**3,000**

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CONSERVATIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
April 15, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
Collections cont'd														
800		2	Pine St. Easement	250	250									**500**
800		2	Spot Repairs	700		500		500		500		500		**2,700**
900		2	Spot Repairs											**0**
900		2	Stevenson at Davis St.					150	1,000					**1,150**
900		1	Veasy St. Sewer Improvements	100	600									**700**
Total for COLLECTION SYSTEM				**6,050**	**6,600**	**750**	**1,000**	**3,050**	**3,300**	**5,800**	**900**	**1,900**	**1,800**	**31,150**

TRANSPORT SYSTEM PROJECTS

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800	0.50	2	Alameda Creek Crossing Lift Station										250	**250**
900	0.50	2	Alameda Creek Crossing Lift Station										250	**250**
900		1	Equalization Storage @ Alvarado	400	600									**1,000**
900		3	Equalization Storage @ Irvington								300	3,000		**3,300**
900		2	Equalization Storage @ Newark				600		3,500	3,500				**7,600**
800	0.50	1	Fremont & PP LS\ Internal Lift Pumps	1,250	250									**1,500**
900	0.50	1	Fremont & PP LS\ Internal Lift Pumps	1,250	250									**1,500**
800	0.50	2	Hayward Marsh Ammonia Removal Facility			50	500							**550**
900	0.50	2	Hayward Marsh Ammonia Removal Facility			50	500							**550**
800		2	New Cherry St. PS						300	3,000				**3,300**
900		2	New Cherry St. PS											**0**
800		2	Newark PS Waterline	50										**50**
800		3	Transport System Misc. Projects				1,000			1,000			1,000	**3,000**
900		3	Transport System Misc. Projects											**0**
800	0.50	1	Wet Weather Flow Management	200	200	2,500	2,500	500						**5,900**
900	0.50	1	Wet Weather Flow Management	200	200	2,500	2,500	500						**5,900**
Total for TRANSPORT SYSTEM PROJECTS				**3,350**	**1,500**	**5,100**	**7,600**	**1,000**	**3,800**	**7,500**	**300**	**3,000**	**1,500**	**34,650**

CONSERVATIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
April 15, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total

TREATMENT

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
900		2	3rd Degritter System	100	500									**600**
800		2	30" ML Pipe Lining				100	500						**600**
800	0.50	2	Aeration Internal Lift Pumps					500						**500**
900	0.50	2	Aeration Internal Lift Pumps					500						**500**
800	0.50	2	Aeration System Rehab	500		200	1,000	1,000						**2,700**
900	0.50	2	Aeration System Rehab	500		200	1,000	1,000						**2,700**
900		2	Aeration Tank (East) Baffling	100	500									**600**
800		2	Aeration Tank (East) Roof	250	2,500									**2,750**
800		3	Blower Bldg & Channel Air Demo & Repl			100	500							**600**
800	0.50	1	Cogen Project	150										**150**
900	0.50	1	Cogen Project	150										**150**
800		2	Contact Tank Valve Replacement				1,000							**1,000**
800		2	Control Box No. 1 Improvements		150	1,500	1,500							**3,150**
800		2	Diffuser Replacement	100	100	150								**350**
900		3	Digester No. 7										100	**100**
800		2	Emergency Outfall Outlet Improvements		300									**300**
800		2	Gravity Belt Thickener					500	5,500					**6,000**
800		2	Generator Controls Upgrade	300	1,000									**1,300**
800		2	Headworks gates, actuators and Screens		100	1,500								**1,600**
800		1	Hypo Tank and PVC pipe replacement at	500	600									**1,100**
800		1	MCC Replacement	600				100	600					**1,300**
800		2	Misc. Electrical Equipment Upgrade		500		500		500		500		1,000	**3,000**

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CONSERVATIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
April 15, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
Treatment cont'd														
800		2	Misc. Projects		250	250	250	300	300	300	300	300	300	**2,550**
800		2	Odor Scrubber System Improvements							550	5,500	600	6,000	**12,650**
900		2	Odor Scrubber System Improvements											**0**
800		1	Plant Facilities Improvements	500	600									**1,100**
800		1	Plant Master Plan Equipment Replacement			650	650	3,300		5,000	2,000	7,300	3,300	**22,200**
900		1	Plant Master Plan Equipment Replacement											**0**
800		1	PLC Replacement	100	200	350								**650**
800	0.75	2	Primary Clarifier Rehab (5-6)		375	1,688	1,688							**3,750**
900	0.25	2	Primary Clarifier Rehab (5-6)		125	563	563							**1,250**
800		2	Primary Effluent (60") Pipeline Rehab	100										**100**
800		1	RAS PS Pumps, Valve & Pipe Replacement		100	600	600							**1,300**
800		2	Repairs to Concrete Tanks		200	200	200	200	200	200	200	200	200	**1,800**
800	0.75	2	Sec. Clarifiers No. 5 and 6 Rehabilitation		150	1,500	1,500							**3,150**
900	0.25	2	Sec. Clarifiers No. 5 and 6 Rehabilitation		50	500	500							**1,050**
900		3	Secondary Clarifiers No. 7,8										400	**400**
800		2	Seismic Retrofit of Conc. Structures		200	2,000	200	2,000	200	2,000	300	3,000	300	**10,200**
900		2	Seismic Retrofit of Conc. Structures											**0**
800		2	Sludge Drying (BACWA)	100	100	100								**300**
800		2	Sludge Recirculation Pump Replacement			200	200							**400**
900		2	Sludge Recirculation Pump Replacement											**0**
800		2	Standby Generators 5 and 6				150	2,500						**2,650**
800		2	Standby Generators 7 and 8				200	4,000						**4,200**
900		2	Storm Water Diversion Pump Station				200	1,500						**1,700**
800	0.75	2	Thickener Control Bldg Improvements	4,125	375									**4,500**
900	0.25	2	Thickener Control Bldg Improvements	1,375	125									**1,500**

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CONSERVATIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
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(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
Treatment cont'd														
800		2	Thickener Mechanisms 1-2			100	2,200							2,300
900		2	Thickener Mechanisms 1-2											0
800		2	Truck Scales Improvements		100									100
800		2	Water Storage Tank and Well	300										300
900		2	Waste Recycling and Alternative Energy							500	5,000			5,500
Total for TREATMENT				**9,850**	**9,200**	**12,350**	**14,700**	**17,900**	**7,300**	**8,550**	**13,800**	**11,400**	**11,600**	**116,650**
GRAND TOTAL				**20,100**	**24,300**	**22,800**	**23,600**	**21,950**	**14,650**	**21,850**	**15,000**	**16,300**	**14,900**	**195,450**
				0	0	0	0	0	0	0	0	0	0	0
FUND 800 - Structural Renewal & Replacement				**14,275**	**18,350**	**18,988**	**17,738**	**18,300**	**10,150**	**17,850**	**9,700**	**13,300**	**14,150**	**152,800**
FUND 900 - Capacity				**5,825**	**5,950**	**3,813**	**5,863**	**3,650**	**4,500**	**4,000**	**5,300**	**3,000**	**750**	**42,650**

CONSERVATIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
April 15, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
BREAKDOWN OF COSTS BY TYPE OF FACILITY														
ADMINISTRATIVE FACILITIES														
FUND 800 - Structural Renewal & Replacement				700	5,500	4,600	300	0	250	0	0	0	0	11,350
FUND 900 - Capacity				150	1,500	0	0	0	0	0	0	0	0	1,650
Subtotal				850	7,000	4,600	300	0	250	0	0	0	0	13,000
COLLECTION SYSTEM														
FUND 800 - Structural Renewal & Replacement				4,450	4,500	750	1,000	2,900	2,300	5,800	900	1,900	1,800	26,300
FUND 900 - Capacity				1,600	2,100	0	0	150	1,000	0	0	0	0	4,850
Subtotal				6,050	6,600	750	1,000	3,050	3,300	5,800	900	1,900	1,800	31,150
TRANSPORT SYSTEM PROJECTS														
FUND 800 - Structural Renewal & Replacement				1,500	450	2,550	4,000	500	300	4,000	0	0	1,250	14,550
FUND 900 - Capacity				1,850	1,050	2,550	3,600	500	3,500	3,500	300	3,000	250	16,400
Subtotal				3,350	1,500	5,100	7,600	1,000	3,800	7,500	300	3,000	1,500	34,650
TREATMENT														
FUND 800 - Structural Renewal & Replacement				7,625	7,900	11,088	12,438	14,900	7,300	8,050	8,800	11,400	11,100	100,600
FUND 900 - Capacity				2,225	1,300	1,263	2,263	3,000	0	500	5,000	0	500	16,050
Subtotal				9,850	9,200	12,350	14,700	17,900	7,300	8,550	13,800	11,400	11,600	116,650
TOTAL, ALL FACILITIES														
FUND 800 - Structural Renewal & Replacement				14,275	18,350	18,988	17,738	18,300	10,150	17,850	9,700	13,300	14,150	**152,800**
FUND 900 - Capacity				5,825	5,950	3,813	5,863	3,650	4,500	4,000	5,300	3,000	750	**42,650**
TOTAL				**20,100**	**24,300**	**22,800**	**23,600**	**21,950**	**14,650**	**21,850**	**15,000**	**16,300**	**14,900**	**195,450**

MODERATE CIP
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ADMINISTRATIVE FACILITIES

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800	0.75	1	Admin/Field Ops Bldg. Sesmic Upgrade a	150	1,500									**1,650**
900	0.25	1	Admin/Field Ops Bldg. Sesmic Upgrade a	50	500									**550**
800		3	Additional CS (Vehicle) Storage	50	200									**250**
800	0.75	2	FMC Bldg. - New	675	3,750	1,500								**5,925**
900	0.25	2	FMC Bldg. - New	225	1,250	500								**1,975**
800	0.75	2	FMC Bldgs Renovation			75	225							**300**
900	0.25	2	FMC Bldgs Renovation			25	75							**100**
800		3	FMC Storage	50	200									**250**
800		3	Plant Paving		200				250					**450**
900		3	Solar Panels at Alvarado - Phase II	150	1,500									**1,650**
Total for ADMINISTRATIVE FACILITIES				**1,350**	**9,100**	**2,100**	**300**	**0**	**250**	**0**	**0**	**0**	**0**	**13,100**

COLLECTION SYSTEM

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800	0.75	1	Alvarado-Niles Sewer Rehab	1,500	1,500									**3,000**
900	0.25	1	Alvarado-Niles Sewer Rehab	500	500									**1,000**
800	0.75	2	Cast Iron/Pipe Lining		375		375		375		375		375	**1,875**
900	0.25	2	Cast Iron/Pipe Lining		125		125		125		125		125	**625**
800		2	Misc. C S Projects		250	250	300	300	300	300	300	300	300	**2,600**
800	0.75	2	RCP Sewer Rehab (Alvarado Basin)						150	1,500	75	750		**2,475**
900	0.25	2	RCP Sewer Rehab (Alvarado Basin)						50	500	25	250		**825**
800	0.75	2	RCP Sewer Rehab (Irvington Basin)				150	1,500	225	2,250				**4,125**
900	0.25	2	RCP Sewer Rehab (Irvington Basin)				50	500	75	750				**1,375**
800	0.75	2	RCP Sewer Rehab (Newark Basin)					75	750			75	750	**1,650**
900	0.25	2	RCP Sewer Rehab (Newark Basin)					25	250			25	250	**550**
800	0.50	2	Newark Backyard Relocation	1,500	1,500									**3,000**
900	0.50	2	Newark Backyard Relocation	1,500	1,500									**3,000**

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MODERATE CIP
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Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
Collections cont'd														
800		2	Pine St. Easement	250	250									**500**
800		2	Spot Repairs	375		500		500		500		500		**2,375**
900		2	Spot Repairs	125										**125**
900		2	Stevenson at Davis St.					150	1,000					**1,150**
900		1	Veasy St. Sewer Improvements	100	600									**700**
800		2	Warren Ave. Manhole Access	100										**100**
Total for COLLECTION SYSTEM				**5,950**	**6,600**	**750**	**1,000**	**3,050**	**3,300**	**5,800**	**900**	**1,900**	**1,800**	**31,050**

TRANSPORT SYSTEM PROJECTS

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800	0.50	2	Alameda Creek Crossing Lift Station										250	**250**
900	0.50	2	Alameda Creek Crossing Lift Station										250	**250**
900		2	Eden Marsh			0	0	0						**0**
900		1	Equalization Storage @ Alvarado	400	600									**1,000**
900		3	Equalization Storage @ Irvington								300	3,000		**3,300**
900		2	Equalization Storage @ Newark				600		3,500	3,500				**7,600**
800	0.50	1	Fremont & PP LS\ Internal Lift Pumps	1,250	250									**1,500**
900	0.50	1	Fremont & PP LS\ Internal Lift Pumps	1,250	250									**1,500**
800	0.50	2	Hayward Marsh Ammonia Removal Facility			50	500							**550**
900	0.50	2	Hayward Marsh Ammonia Removal Facility			50	500							**550**
800	0.75	2	New Cherry St. PS						225	2,250				**2,475**
900	0.25	2	New Cherry St. PS						75	750				**825**
800		2	Newark PS Waterline	50										**50**
800		1	Stevenson Comm Tower	700										**700**
800		3	Transport System Misc. Projects				1,000			1,000			1,000	**3,000**
900		3	Transport System Misc. Projects											**0**
800	0.50	1	Wet Weather Flow Management	200	200	2,500	2,500	500						**5,900**

MODERATE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
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Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
900	0.50	1	Wet Weather Flow Management	200	200	2,500	2,500	500						5,900
Total for TRANSPORT SYSTEM PROJECTS				**4,050**	**1,500**	**5,100**	**7,600**	**1,000**	**3,800**	**7,500**	**300**	**3,000**	**1,500**	**35,350**

TREATMENT

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
900		2	3rd Degritter System	100	500									600
800		2	30" ML Pipe Lining				100	500						600
800	0.50	2	Aeration Internal Lift Pumps					500						500
900	0.50	2	Aeration Internal Lift Pumps					500						500
800	0.50	2	Aeration System Rehab	500		200	1,000	1,000						2,700
900	0.50	2	Aeration System Rehab	500		200	1,000	1,000						2,700
900		2	Aeration Tank (East) Baffling	100	500									600
800		2	Aeration Tank (East) Roof	250	2,500									2,750
800		3	Blower Bldg & Channel Air Demo & Repl			100	500							600
800	0.50	1	Cogen Project	150										150
900	0.50	1	Cogen Project	150										150
800		2	Contact Tank Valve Replacement				1,000							1,000
800		2	Control Box No. 1 Improvements		150	1,500	1,500							3,150
800		2	Diffuser Replacement	100	100	150								350
900		3	Digester No. 7										100	100
800		2	Emergency Outfall Outlet Improvements		300									300
900		2	Waste Recycling and Alternative Energy							500	5,000			5,500
800		2	Gravity Belt Thickener					500	5,500					6,000
800		2	Generator Controls Upgrade	300	1,000									1,300
800		2	Headworks gates, actuators and Screens		100	1,500								1,600

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Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
Treatment cont'd														
800		1	Hypo Tank and PVC pipe replacement at	500	600									**1,100**
800		1	MCC Replacement	600				100	600					**1,300**
800		2	Misc. Electrical Equipment Upgrade		500		500		500		500		1,000	**3,000**
800		2	Misc. Projects		250	250	250	300	300	300	300	300	300	**2,550**
800	0.75	2	Odor Scrubber System Improvements							413	4,125	450	4,500	**9,488**
900	0.25	2	Odor Scrubber System Improvements							138	1,375	150	1,500	**3,163**
800		1	Plant Facilities Improvements	500	600									**1,100**
800	0.75	1	Plant Master Plan Equipment Replacement			488	488	2,475		3,750	2,000	5,475	2,475	**17,150**
900	0.25	1	Plant Master Plan Equipment Replacement			163	163	825		1,250		1,825	825	**5,050**
800		1	PLC Replacement	100	200	350								**650**
800	0.75	2	Primary Clarifier Rehab (5-6)		375	1,688	1,688							**3,750**
900	0.25	2	Primary Clarifier Rehab (5-6)		125	563	563							**1,250**
800		2	Primary Effluent (60") Pipeline Rehab	100										**100**
800		1	RAS PS Pumps, Valve & Pipe Replacement		100	600	600							**1,300**
800		2	Repairs to Concrete Tanks		200	200	200	200	200	200	200	200	200	**1,800**
800	0.75	2	Sec. Clarifiers No. 5 and 6 Rehabilitation		150	1,500	1,500							**3,150**
900	0.25	2	Sec. Clarifiers No. 5 and 6 Rehabilitation		50	500	500							**1,050**
900		3	Secondary Clarifiers No. 7,8										400	**400**
800	0.75	2	Seismic Retrofit of Conc. Structures		150	1,500	150	1,500	150	1,500	225	2,250	225	**7,650**
900	0.25	2	Seismic Retrofit of Conc. Structures		50	500	50	500	50	500	75	750	75	**2,550**
800		2	Sludge Drying (BACWA)	100	100	100								**300**
800	0.50	2	Sludge Recirculation Pump Replacement			100	100							**200**
900	0.50	2	Sludge Recirculation Pump Replacement			100	100							**200**
800		2	Standby Generators 5 and 6				150	2,500						**2,650**
800		2	Standby Generators 7 and 8				200	4,000						**4,200**

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Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
900		2	Storm Water Diversion Pump Station				200	1,500						1,700
800	0.75	2	Thickener Control Bldg Improvements	4,125	375									4,500
900	0.25	2	Thickener Control Bldg Improvements	1,375	125									1,500
800	0.75	2	Thickener Mechanisms 1-2			75	1,650							1,725
900	0.25	2	Thickener Mechanisms 1-2			25	550							575
800		2	Truck Scales Improvements		100									100
Treatment cont'd next page														
Treatment cont'd														
800		2	Water Storage Tank and Well	300										300
Total for TREATMENT				**9,850**	**9,200**	**12,350**	**14,700**	**17,900**	**7,300**	**8,550**	**13,800**	**11,400**	**11,600**	**116,650**
GRAND TOTAL				**21,200**	**26,400**	**20,300**	**23,600**	**21,950**	**14,650**	**21,850**	**15,000**	**16,300**	**14,900**	**196,150**
				0	0	0	0	0	0	0	0	0	0	0
FUND 800 - Structural Renewal & Replacement				**14,475**	**18,025**	**15,175**	**16,625**	**16,450**	**9,525**	**13,963**	**8,100**	**10,300**	**11,375**	**134,013**
FUND 900 - Capacity				**6,725**	**8,375**	**5,125**	**6,975**	**5,500**	**5,125**	**7,888**	**6,900**	**6,000**	**3,525**	**62,138**

MODERATE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
March 30, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
BREAKDOWN OF COSTS BY TYPE OF FACILITY														
ADMINISTRATIVE FACILITIES														
FUND 800 - Structural Renewal & Replacement				925	5,850	1,575	225	0	250	0	0	0	0	8,825
FUND 900 - Capacity				425	3,250	525	75	0	0	0	0	0	0	4,275
Subtotal				1,350	9,100	2,100	300	0	250	0	0	0	0	13,100
COLLECTION SYSTEM														
FUND 800 - Structural Renewal & Replacement				3,725	3,875	750	825	2,375	1,800	4,550	750	1,625	1,425	21,700
FUND 900 - Capacity				2,225	2,725	0	175	675	1,500	1,250	150	275	375	9,350
Subtotal				5,950	6,600	750	1,000	3,050	3,300	5,800	900	1,900	1,800	31,050
TRANSPORT SYSTEM PROJECTS														
FUND 800 - Structural Renewal & Replacement				2,200	450	2,550	4,000	500	225	3,250	0	0	1,250	14,425
FUND 900 - Capacity				1,850	1,050	2,550	3,600	500	3,575	4,250	300	3,000	250	20,925
Subtotal				4,050	1,500	5,100	7,600	1,000	3,800	7,500	300	3,000	1,500	35,350
TREATMENT														
FUND 800 - Structural Renewal & Replacement				7,625	7,850	10,300	11,575	13,575	7,250	6,163	7,350	8,675	8,700	89,063
FUND 900 - Capacity				2,225	1,350	2,050	3,125	4,325	50	2,388	6,450	2,725	2,900	27,588
Subtotal				9,850	9,200	12,350	14,700	17,900	7,300	8,550	13,800	11,400	11,600	116,650
TOTAL, ALL FACILITIES														
FUND 800 - Structural Renewal & Replacement				14,475	18,025	15,175	16,625	16,450	9,525	13,963	8,100	10,300	11,375	**134,013**
FUND 900 - Capacity				6,725	8,375	5,125	6,975	5,500	5,125	7,888	6,900	6,000	3,525	**62,138**
TOTAL				**21,200**	**26,400**	**20,300**	**23,600**	**21,950**	**14,650**	**21,850**	**15,000**	**16,300**	**14,900**	**196,150**

AGGRESSIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
March 20, 2015
(All Figures x$1,000)

ADMINISTRATIVE FACILITIES

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800	0.50	1	Admin Bldg. Sesmic Upgrade and Leak R	100	1,000									**1,100**
900	0.50	1	Admin Bldg. Sesmic Upgrade and Leak R	100	1,000									**1,100**
800		3	Additional CS (Vehicle) Storage	50	200									**250**
800	0.50	2	FMC Bldg. - New	450	2,500	1,000								**3,950**
900	0.50	2	FMC Bldg. - New	450	2,500	1,000								**3,950**
800	0.50	2	FMC Bldgs Renovation			50	150							**200**
900	0.50	2	FMC Bldgs Renovation			50	150							**200**
800		3	FMC Storage	50	200									**250**
800		3	Plant Paving		200				250					**450**
900		3	Solar Panels at Alvarado - Phase II	150	1,500									**1,650**
Total for ADMINISTRATIVE FACILITIES				**1,350**	**9,100**	**2,100**	**300**	**0**	**250**	**0**	**0**	**0**	**0**	**13,100**

COLLECTION SYSTEM

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800	0.50	1	Alvarado-Niles Sewer Rehab	1,000	1,250									**2,250**
900	0.50	1	Alvarado-Niles Sewer Rehab	1,000	1,250									**2,250**
800	0.50	2	Cast Iron/Pipe Lining		250		250		250		250		250	**1,250**
900	0.50	2	Cast Iron/Pipe Lining		250		250		250		250		250	**1,250**
800		2	Misc. C S Projects		250	250	300	300	300	300	300	300	300	**2,600**
800	0.50	2	RCP Sewer Rehab (Alvarado Basin)						100	1,000	50	500		**1,650**
900	0.50	2	RCP Sewer Rehab (Alvarado Basin)						100	1,000	50	500		**1,650**
800	0.50	2	RCP Sewer Rehab (Irvington Basin)				100	1,000	150	1,500				**2,750**
900	0.50	2	RCP Sewer Rehab (Irvington Basin)				100	1,000	150	1,500				**2,750**
800	0.50	2	RCP Sewer Rehab (Newark Basin)					50	500			50	500	**1,100**
900	0.50	2	RCP Sewer Rehab (Newark Basin)					50	500			50	500	**1,100**
800	0.50	2	Newark Backyard Relocation	1,500	1,500									**3,000**
900	0.50	2	Newark Backyard Relocation	1,500	1,500									**3,000**

Collections cont'd next page

AGGRESSIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
March 20, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
Collections cont'd														
800		2	Pine St. Easement	250	250									**500**
800		2	Spot Repairs	375		500		500		500		500		**2,375**
900		2	Spot Repairs	125										**125**
900		2	Stevenson at Davis St.					150	1,000					**1,150**
900		1	Veasy St. Sewer Improvements	100	600									**700**
800		2	Warren Ave. Manhole Access	100										**100**
Total for COLLECTION SYSTEM				**5,950**	**7,100**	**750**	**1,000**	**3,050**	**3,300**	**5,800**	**900**	**1,900**	**1,800**	**31,550**

TRANSPORT SYSTEM PROJECTS

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800	0.50	2	Alameda Creek Crossing Lift Station										250	**250**
900	0.50	2	Alameda Creek Crossing Lift Station										250	**250**
900		2	Eden Marsh			1,000	1,000	1,000						**3,000**
900		1	Equalization Storage @ Alvarado	400	600									**1,000**
900		3	Equalization Storage @ Irvington								300	3,000		**3,300**
900		2	Equalization Storage @ Newark				600		3,500	3,500				**7,600**
800	0.50	1	Fremont & PP LS\ Internal Lift Pumps	1,250										**1,250**
900	0.50	1	Fremont & PP LS\ Internal Lift Pumps	1,250										**1,250**
800	0.50	2	Hayward Marsh Ammonia Removal Facility			50	500							**550**
900	0.50	2	Hayward Marsh Ammonia Removal Facility			50	500							**550**
800		2	New Cherry St. PS						150	1,500				**1,650**
900		2	New Cherry St. PS						150	1,500				**1,650**
800		2	Newark PS Waterline	50										**50**
800		1	Stevenson Comm Tower	700										**700**
800		3	Transport System Misc. Projects				1,000			1,000			1,000	**3,000**
900		3	Transport System Misc. Projects											**0**
800	0.50	1	Wet Weather Flow Management	200	200	2,000	2,000							**4,400**

AGGRESSIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
March 20, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
900	0.50	1	Wet Weather Flow Management	200	200	2,000	2,000							4,400
Total for TRANSPORT SYSTEM PROJECTS				**4,050**	**1,000**	**5,100**	**7,600**	**1,000**	**3,800**	**7,500**	**300**	**3,000**	**1,500**	**34,850**

TREATMENT

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
900		2	3rd Degritter System	100	500									600
800		2	30" ML Pipe Lining				100	500						600
800	0.50	2	Aeration Internal Lift Pumps					500						500
900	0.50	2	Aeration Internal Lift Pumps					500						500
800	0.50	2	Aeration System Rehab	500		200	1,000	1,000						2,700
900	0.50	2	Aeration System Rehab	500		200	1,000	1,000						2,700
900		2	Aeration Tank (East) Baffling	100	500									600
800		2	Aeration Tank (East) Roof	250	2,500									2,750
800		3	Blower Bldg & Channel Air Demo & Repl			100	500							600
800	0.50	1	Cogen Project	150										150
900	0.50	1	Cogen Project	150										150
800		2	Contact Tank Valve Replacement				1,000							1,000
800		2	Control Box No. 1 Improvements		150	1,500	1,500							3,150
800		2	Diffuser Replacement	100	100	150								350
900		3	Digester No. 7										100	100
800		2	Emergency Outfall Outlet Improvements		300									300
900		2	Waste Recycling and Alternative Energy							500	5,000			5,500
800		2	Gravity Belt Thickener					500	5,500					6,000
800		2	Generator Controls Upgrade	300	1,000									1,300
800		2	Headworks gates, actuators and Screens		100	1,500								1,600

Treatment cont'd next page

AGGRESSIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
March 20, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
Treatment cont'd														
800		1	Hypo Tank and PVC pipe replacement at	500	600									**1,100**
800		1	MCC Replacement	600				100	600					**1,300**
800		2	Misc. Electrical Equipment Upgrade		500		500		500		500		1,000	**3,000**
800		2	Misc. Projects		250	250	250	300	300	300	300	300	300	**2,550**
800	0.50	2	Odor Scrubber System Improvements							275	2,750	300	3,000	**6,325**
900	0.50	2	Odor Scrubber System Improvements							275	2,750	300	3,000	**6,325**
800		1	Plant Facilities Improvements	500	600									**1,100**
800		1	Plant Master Plan Equipment Replacement			325	325	1,650		2,500	2,000	3,650	1,650	**12,100**
900		1	Plant Master Plan Equipment Replacement			325	375	1,650		2,500		3,650	1,650	**10,150**
800		1	PLC Replacement	100	200	350								**650**
800	0.75	2	Primary Clarifier Rehab (5-6)		375	1,688	1,688							**3,750**
900	0.25	2	Primary Clarifier Rehab (5-6)		125	563	563							**1,250**
800		2	Primary Effluent (60") Pipeline Rehab	100										**100**
800		1	RAS PS Pumps, Valve & Pipe Replacement		100	600	600							**1,300**
800		2	Repairs to Concrete Tanks		200	200	200	200	200	200	200	200	200	**1,800**
800	0.75	2	Sec. Clarifiers No. 5 and 6 Rehabilitation		150	1,500	1,500							**3,150**
900	0.25	2	Sec. Clarifiers No. 5 and 6 Rehabilitation		50	500	500							**1,050**
900		3	Secondary Clarifiers No. 7,8										400	**400**
800	0.50	2	Seismic Retrofit of Conc. Structures		100	1,000	100	1,000	100	1,000	150	1,500	150	**5,100**
900	0.50	2	Seismic Retrofit of Conc. Structures		100	1,000	100	1,000	100	1,000	150	1,500	150	**5,100**
800		2	Sludge Drying (BACWA)	100	100	100								**300**
800	0.50	2	Sludge Recirculation Pump Replacement			100	100							**200**
900	0.50	2	Sludge Recirculation Pump Replacement			100	100							**200**
800		2	Standby Generators 5 and 6				150	2,500						**2,650**

AGGRESSIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
March 20, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
800		2	Standby Generators 7 and 8				200	4,000						**4,200**
900		2	Storm Water Diversion Pump Station				200	1,500						**1,700**
800	0.75	2	Thickener Control Bldg Improvements	4,125	375									**4,500**
900	0.25	2	Thickener Control Bldg Improvements	1,375	125									**1,500**
800	0.50	2	Thickener Mechanisms 1-2			50	1,100							**1,150**
900	0.50	2	Thickener Mechanisms 1-2			50	1,100							**1,150**
800		2	Truck Scales Improvements		100									**100**
800		2	Water Storage Tank and Well	300										**300**
Total for TREATMENT				**9,850**	**9,200**	**12,350**	**14,750**	**17,900**	**7,300**	**8,550**	**13,800**	**11,400**	**11,600**	**116,700**
GRAND TOTAL				**21,200**	**26,400**	**20,300**	**23,650**	**21,950**	**14,650**	**21,850**	**15,000**	**16,300**	**14,900**	**196,200**
				0	0	0	0	0	0	0	0	0	0	0
FUND 800 - Structural Renewal & Replacement				**13,700**	**15,600**	**13,463**	**15,113**	**14,100**	**8,900**	**10,075**	**6,500**	**7,300**	**8,600**	**113,350**
FUND 900 - Capacity				**7,500**	**10,800**	**6,838**	**8,538**	**7,850**	**5,750**	**11,775**	**8,500**	**9,000**	**6,300**	**82,850**

AGGRESSIVE CIP
TEN YEAR CIP FY16-FY25 EXPENDITURE PLAN
March 20, 2015
(All Figures x$1,000)

Fund	%	Rank	Project Name	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
BREAKDOWN OF COSTS BY TYPE OF FACILITY														
ADMINISTRATIVE FACILITIES														
FUND 800 - Structural Renewal & Replacement				650	4,100	1,050	150	0	250	0	0	0	0	6,200
FUND 900 - Capacity				700	5,000	1,050	150	0	0	0	0	0	0	6,900
Subtotal				1,350	9,100	2,100	300	0	250	0	0	0	0	13,100
COLLECTION SYSTEM														
FUND 800 - Structural Renewal & Replacement				3,225	3,500	750	650	1,850	1,300	3,300	600	1,350	1,050	17,575
FUND 900 - Capacity				2,725	3,600	0	350	1,200	2,000	2,500	300	550	750	13,975
Subtotal				5,950	7,100	750	1,000	3,050	3,300	5,800	900	1,900	1,800	31,550
TRANSPORT SYSTEM PROJECTS														
FUND 800 - Structural Renewal & Replacement				2,200	200	2,050	3,500	0	150	2,500	0	0	1,250	11,850
FUND 900 - Capacity				1,850	800	3,050	4,100	1,000	3,650	5,000	300	3,000	250	23,000
Subtotal				4,050	1,000	5,100	7,600	1,000	3,800	7,500	300	3,000	1,500	34,850
TREATMENT														
FUND 800 - Structural Renewal & Replacement				7,625	7,800	9,613	10,813	12,250	7,200	4,275	5,900	5,950	6,300	77,725
FUND 900 - Capacity				2,225	1,400	2,738	3,938	5,650	100	4,275	7,900	5,450	5,300	38,975
Subtotal				9,850	9,200	12,350	14,750	17,900	7,300	8,550	13,800	11,400	11,600	116,700
TOTAL, ALL FACILITIES														
FUND 800 - Structural Renewal & Replacement				13,700	15,600	13,463	15,113	14,100	8,900	10,075	6,500	7,300	8,600	**113,350**
FUND 900 - Capacity				7,500	10,800	6,838	8,538	7,850	5,750	11,775	8,500	9,000	6,300	**82,850**
TOTAL				**21,200**	**26,400**	**20,300**	**23,650**	**21,950**	**14,650**	**21,850**	**15,000**	**16,300**	**14,900**	**196,200**

APPENDIX B

Capacity Charge Calculation for Conservative & Aggressive CIP Scenarios

CONSERVATIVE CIP

Table 12b
Union Sanitary District
Recoverable Costs - Conservative CIP

	Total Recoverable Cost	Multiplier	Discounted Cost For Capacity Fee Recovery
Treatment Plant Assets			
Cost of Existing Assets (May 2015 $)[1]	$274,352,929	90%	$246,917,636
Expansion-Related CIP Projects	16,050,000	90%	14,445,000
Subtotal	290,402,929		261,362,636
Collection System Assets			
Cost of Existing Assets (May 2015 $) [1]	*$1,290,605,757*	*not used*	
Alternative Pipeline Valuation[2]	1,197,964,486	90%	$1,078,168,037
Value of Lift Stations[1]	3,483,470	90%	3,135,123
Expansion-Related CIP Projects	4,850,000	90%	4,365,000
Subtotal	1,206,297,956		1,085,668,160
Pump Station & Conveyance			
Cost of Existing Assets (May 2015 $)[1]	$124,657,287	90%	$112,191,558
Expansion-Related CIP Projects	20,100,000	90%	18,090,000
Subtotal	144,757,287		130,281,558
General/Administrative Facilities & Assets			
Cost of Existing Assets (May 2015 $)[1]	$153,974,113	90%	$138,576,702
Expansion-Related CIP Projects	1,650,000	90%	1,485,000
Subtotal	155,624,113		140,061,702
EBDA Effluent Disposal Facilities			
Cost of Existing Assets (May 2015 $)[1]	$70,505,301	90%	$63,454,771
TOTAL	**$1,867,587,586**		**$1,680,828,828**

1 Based on ENR-adjusted purchase price.
2 Based on pipeline diameter, length, and replacement cost per linear foot.
Note: Excludes CIP costs for repairs & replacements to existing assets.

Table 13b
Union Sanitary District
Cost Allocation - Conservative CIP

	Cost for Fee Recovery	Cost Allocation %			Cost Allocation $		
		Flow	BOD	SS	Flow	BOD	SS
Treatment Plant	$261,362,636	22.2%	43.8%	34.0%	$58,097,213	$114,362,415	$88,903,008
Collection System	1,085,668,160	100.0%	0.0%	0.0%	1,085,668,160	0	0
Pump Station & Conveyance	130,281,558	100.0%	0.0%	0.0%	130,281,558	0	0
General/Admin Facilities & Assets	140,061,702	50.0%	25.0%	25.0%	70,030,851	35,015,426	35,015,426
EBDA Effluent Disposal Facilities	63,454,771	100.0%	0.0%	0.0%	63,454,771	0	0
Total	1,680,828,828	83.7%	8.9%	7.4%	1,407,532,553	149,377,840	123,918,434

Table 14b
Union Sanitary District
Unit Cost Calculations - Conservative CIP

	FLOW		BOD		SS	
Treatment Plant						
Cost Allocation	$58,097,213		$114,362,415		$88,903,008	
Capacity	33	mgd	88,548	lbs/day	70,732	lbs/day
Unit Cost	$1,760,522	per mgd	$1,291.53	per lb/day	$1,256.91	per lb/day
	1.761	per gpd				
	$4.82	per 1000 glns	$3,538.44	per 1000 lbs	$3,443.58	per 1000 lbs
Collection System						
Cost Allocation	$1,085,668,160					
Capacity	39	mgd				
Unit Cost	$27,837,645	per mgd				
	27.838	per gpd				
	$76.27	per 1000 glns				
Pump Station & WWTP Conveyance						
Cost Allocation	$130,281,558					
Capacity	39	mgd				
Unit Cost	$3,340,553	per mgd				
	3.341	per gpd				
	$9.15	per 1000 glns				
General/Admin Facilities & Assets						
Cost Allocation	$70,030,851		$35,015,426		$35,015,426	
Capacity	39	mgd	88,548	lbs/day	70,732	lbs/day
Unit Cost	$1,795,663	per mgd	$395.44	per lb/day	$495.05	per lb/day
	1.796	per gpd				
	$4.92	per 1000 glns	$1,083.40	per 1000 lbs	$1,356.29	per 1000 lbs
EBDA Effluent Disposal Facilities						
Cost Allocation	$63,454,771					
Capacity	42.9	mgd				
Unit Cost	$1,479,132	per mgd				
	1.479	per gpd				
	$4.05	per 1000 glns				
	FLOW		**BOD**		**SS**	
Total Unit Costs	**$36,213,515**	**per mgd**	**$1,686.97**	**per lb/day**	**$1,751.95**	**per lb/day**
	$36.21	**per gpd**				
	$99.22	**per 1000 gls**	**$4,621.84**	**per 1000 lbs**	**$4,799.88**	**per 1000 lbs**
COD Conversion			**COD**			
Assumes BOD = COD x 0.47			**$792.88**	**per lb/day**		
			$2,172.26	**per 1000 lbs**		

Table 15b
Union Sanitary District
Capacity Fee per EDU - Conservative CIP

	FLOW		BOD		SS		TOTAL
EDU Definition[1]	210	gpd	200	mg/l	200	mg/l	
			0.128	1000 lbs	0.128	1000 lbs	
Unit Costs	$36.21	per gpd	$4,621.84	per 1000 lbs	$4,799.88	per 1000 lbs	
Capacity Charge	$7,604.10		$590.91		$613.68		**$8,808.69**

1 An Equivalent Dwelling Unit (EDU) represents the wastewater discharge from a typical single family home.

Table 16b
Union Sanitary District
Industrial Capacity Fees - Conservative CIP

	FLOW		COD		SS	
Proposed Industrial Fees						
Unit Costs	$99.22	per 1000 gallons	$2,172.26	per 1000 lbs	$4,799.88	per 1000 lbs
	36.21	per gpd	792.88	per lb/day	1,751.95	per lb/day
Divided by 4	24.80	per 1000 gallons	543.07	per 1000 lbs	1,199.97	per 1000 lbs
	9.05	per gpd	198.22	per lb/day	437.99	per lb/day

Note: Industrial fees are collected in 4 installments including an initial charge plus three additional charges for each subsequent year based on actual wastewater flow and strength from the prior annual period.

Table 17b
Union Sanitary District
Wastewater Flow Estimates - Conservative CIP

CONNECTION CATEGORY	UNIT DEFINITION	FLOW ESTIMATE	SOURCE / COMPARISONS
RESIDENTIAL & COMMERCIAL			
Single Family Dwelling Unit	per unit *(new construction only; not additions or*	210 gpd per dwelling unit	BWA analysis of 4 years of ACWD water data Union Sanitary District current flow estimate: 210 gpd
Multi-Family Dwelling Unit	per unit *(new construction only; not additions or*	180 gpd per dwelling unit	BWA analysis of 4 years of ACWD water data Union Sanitary District current flow estimate: 210 gpd
Commercial/Industrial/Office use (C/I/O) (Domestic Use Only) and Mixed Use Commercial Property with individual tenant units exceeding 10,000 square feet	per square foot of building floor area	0.10 gpd per square foot	Union Sanitary District current flow estimate: 0.10 gpd/sf West Valley Sanitary District: Office Building 0.14 gpd/sf, Retail Stores: 0.072-0.076 gpd/sf Mountain View: Commercial 0.10 gpd/sf, Office/R&D 0.15 gpd/sf Dublin San Ramon Services District: General Office Building/General Retail/Commercial 0.05 gpd/sf LA County SD#2: Office Building 0.20 gpd/sf, Store 0.10 gpd/sf Palo Alto: Gen Commercial 0.125 gpd/sf San Jose: 0.10 gpd/sf
Boarding Establishments	per unit, or per capita design tenant	140 gpd per unit 70 gpd per capita	Union Sanitary District current flow estimate: 140 gpd/unit, 70 gpd/capita West Valley SD: Hotel/Motel 120 gpd/room (w/ dining), 50 gpd (w/o dining), Convalescent 520 gpd/bed LA County SD#2: Hotel/Motel 125 gpd/room, Convalescent 125/bed Victorville: Hotel/Motel about 125 gpd/room (w/o kitchen), 185 gpd/room (w/ kitchen) Sacramento Regional CSD: 0.2 EDUs/bed 0.4 EDUs/room (est. 100 gpd/room) Monterey Regional WPCA: Hotel/Motel 82 gpd/room, Transient Occupancy 210 gpd/unit Dublin San Ramon Services District: Hotels Motels (excluding dining facilities) 130 gpd/room
Schools and Day Care Centers (Boarding Facilities Excluded)	per square foot of building floor area	0.14 gpd per square foot	West Valley SD: School/Day Care 0.183 gpd/sf LA County SD#2: Private School 0.20 gpd/sf Literature Search - User Discharge Classification: Schools 0.20 gpd/per sf (references SWRCB) Union Sanitary District current flow estimate: 0.14 gpd/sf
Churches (School & Day Care facilities excluded)	per square foot of building floor area	0.10 gpd per square foot	Union Sanitary District: Church 0.28 gpd/sf LA County SD#2: Church 0.50 gpd/sf Victorville: Church 0.025 gpd/sf (w/o kitchen) 0.050 gpd/sf (w/ kitchen) Sacramento Regional CSD: est. 0.070 gpd/sf
Public Assembly Facilities	per seat	5 gpd per seat	Union Sanitary District current flow estimate: 5 gpd per seat SWRCB G-24 Theater 5 gpd per seat, Visitor Center 5 gpd per visitor SWRCB G-23: Assembly Hall 2 gpd per seat, Theater 3 gpd per seat; West Valley SD: Auditorium/Halls 0.11 gpd/sf Dublin San Ramon SD: Theater 2 gpd per seat, Banquet Facilities with Intermittant use 0.27 gpd/sf LA County SD#2: Club & Lodge Halls 0.125 gpd/sf, Auditorium 0.35 gpd/sf
Health Clubs (with fitness equipment, showers, and/or pool)	per square foot of building floor area	0.42 gpd per square foot	Union Sanitary District current flow estimate: 0.42 gpd/sf LA County SD#2: Health Spa/Gym 0.30 gpd/sf (w/o showers), 0.60 gpd/sf (w/ showers) West Valley SD: Health Studios/Gyms 0.20 gpd/sf (w/o showers), 0.42 gpd/sf (w/ showers) Sacramento Regional CSD: Gyms/Health Clubs est. 0.075 gpd/sf Livermore: Gyms/Health Clubs 0.30 gpd/sf Dublin San Ramon Services District: Gyms/Health Clubs 0.42 gpd/sf
Park or Recreation Site restrooms	per water closet	1.0 EDU	Union Sanitary District current fee: 1.0 EDU
Coin-operated Laundromats	per washing machine	160 gpd per machine	Union Sanitary District current flow estimate: 160 gpd/machine (*a recent USD review of several laundromats* estimated the conversion to flow per square foot at 3.12 gpd/sf) Dublin San Ramon Services District: 130 gpd/machine Victorville: about 120 gpd/machine West Valley SD: 2.52 gpd/sf

Table 17b
Union Sanitary District
Wastewater Flow Estimates - Conservative CIP

CONNECTION CATEGORY	UNIT DEFINITION	FLOW ESTIMATE	SOURCE / COMPARISONS
Restaurants - All	per square foot of building floor area	0.50 gpd per square foot	Union Sanitary District current flow estimate: 0.50 gpd/sf *(District survey of water use from 44 full service and 44 fast food restaurants from 1993/94 and 1994/95 averaged 0.57 gpd/sf)* West Valley Sanitary District: Full Svc 1.01 gpd/sf, Fast Food 0.90 gpd/sf) Milpitas: Large Restaurant 1.04 gpd/sf, Small Restaurant 0.60 gpd/sf Dublin San Ramon SD: Full Service 0.54 gpd/sf, Fast Food 0.60 gpd/sf Sacramento Regional CSD: 0.37-0.44 gpd/sf Mt. View: Restaurant 1.0 gpd/sf LA County SD#2: Restaurant 1.0 gpd/sf
Eating/Drinking facilities without cooking facilities	per square foot of building floor area	0.25 gpd/ square foot	Union Sanitary District current flow estimate: 0.25 gpd/sf (1/2 of a regular restaurant) West Valley Sanitary District: Bars 0.072 gpd/sf Dublin San Ramon Services District: Bars/Coctail Lounges/Taverns w/o dining 0.35 gpd/sf SWRCB 35 gpd per seat
Car Wash with water recycling	lump sum	1.0 EDU	Union Sanitary District current fee: 1.0 EDU West Valley SD: Car Wash 1.70 gpd/sf Dublin San Ramon Services District 1.70 gpd/sf LA County SD#2: Car Wash Tunnel 2.70 gpd/sf (w/ recycling), Wand 0.70 gpd/sf
Mixed-use Commercial property with individual tenant units less than 10,000 square feet	per square foot of building floor area	0.22 gpd per square foot	Assumes 70% standard strength commercial flow and 30% restaurant flow based on District analysis of a sample of existing mixed-use parcels
Warehouses	per square foot of building floor area up to 50,000 square feet	0.04 gpd per square foot	Union Sanitary District current flow estimate: 0.04 gpd/sf (Brown & Caldwell 1996 Capacity Fee Analysis) Dublin San Ramon Services District: Warehouse/Distribution 0.03 gpd/sf West Valley Sanitary District: Warehouse 0.052 gpd/sf LA County SD#2: Warehousing 0.025 gpd/sf Victorville: Warehouse 0.0125 gpd/sf
	per square foot of building floor area for that portion of each building above 50,000 square feet	0.01 gpd per square foot	Union Sanitary District current flow estimate: 0.01 gpd/sf (Brown & Caldwell 1996 Capacity Fee Analysis)
Private cafeterias	per square foot of floor area for food preparation, cooking, food storage, and food service areas (excluding seating areas)	0.50 gpd per square foot	Union Sanitary District current flow estimate: 0.50 gpd/sf West Valley Sanitary District: Cafeteria Style Restaurant 0.71 gpd/sf Dublin San Ramon Services District: Cafeteria (day use) 0.40 gpd/sf
Equipment Wash Pad with Interceptor	lump sum, plus	1 EDU	Union Sanitary District current fee: 1.0 EDU
	per square foot for any additional pad area above 600 square feet	0.70 gpd per square foot	Union Sanitary District current flow estimate: 0.07 gpd/sf
Mobile Home/RV Holding Tank disposal station	lump sum	2 EDUs	Union Sanitary District current fee: 2.0 EDUs
Miscellaneous	to be determined by District		

Table 18b
Union Sanitary District
Proposed Maximum Capacity Fees - Conservative CIP

CONNECTION CATEGORY	CHARGE PER UNIT			UNIT DEFINITION	FLOW	BOD	SS	EDUs
	Current	2010 Max	2015 Update[1]		(Per Unit)	(mg/l)	(mg/l)	if applicable
RESIDENTIAL & COMMERCIAL								
Single Family Dwelling Unit[2]	$5,595.66	$7,346.29	$8,808.69	per unit *(new construction only; not additions or repairs)*	210	200	200	1.00
Multi-Family Dwelling Unit	$4,796.28	$6,296.82	$7,550.30	per unit *(new construction only; not additions or repairs)*	180	200	200	0.86
Commercial/Industrial/Office use (C/I/O) (Domestic Use Only) and Mixed Use Commercial Property with individual tenant units exceeding 10,000 square feet	$2.64	$3.30	$3.99	per square foot of building floor area	0.10	140	115	
Mixed-use Commercial property with individual tenant units less than 10,000 square feet	$6.36	$8.77	$10.36	per square foot of building floor area	0.22	440	320	
Boarding Establishments	$3,733.21	$4,897.53	$5,872.46	per unit, or	140	200	200	0.67
Including Hotels and Motels	$1,866.58	$2,448.76	$2,936.23	per capita design tenant	70	200	200	0.33
Schools and Day Care Centers (Boarding Facilities Excluded)	$2.99	$4.58	$5.53	per square foot of building floor area	0.14	130	100	
Churches (School & Day Care facilities	$2.12	$3.27	$3.95	per square foot of building	0.10	130	100	
Public Assembly Facilities	$133.30	$174.91	$209.73	per seat	5	200	200	
Health Clubs	$8.97	$13.73	$16.59	per square foot of building	0.42	130	100	
Park or Recreation Site Restrooms	$5,595.66	$7,346.29	$8,808.69	per water closet				1.00
Coin-operated Laundromats	$4,263.81	$5,293.48	$6,388.42	per washing machine	160	150	110	
Restaurants - All	$22.06	$25.59	$29.52	per square foot of building	0.50	1000	600	
Eating/Drinking facilities without cooking	$11.09	$8.75	$10.49	per square foot of building	0.25	200	200	
Car Wash with water recycling	$5,595.66	$7,346.29	$8,808.69	lump sum		20	150	1.00

Table 18b
Union Sanitary District
Proposed Maximum Capacity Fees - Conservative CIP

CONNECTION CATEGORY	CHARGE PER UNIT			UNIT DEFINITION	FLOW	BOD	SS	EDUs
	Current	2010 Max	2015 Update[1]		(Per Unit)	(mg/l)	(mg/l)	if applicable
Warehouses	$1.02	$1.40	$1.68	per square foot of building floor area up to 50,000	0.04	200	200	
	$0.32	$0.35	$0.42	per square foot of building floor area for that portion of each building above 50,000 square feet	0.01	200	200	
Private cafeterias	$22.06	$25.59	$29.52	per square foot of floor area for food preparation, cooking, food storage, and food service areas (excluding seating areas)	0.50	1000	600	
Equipment Wash Pad with Interceptor	$5,595.66	$7,346.29	$8,808.69	lump sum, plus				1.00
	$17.18	$24.49	$29.36	per square foot for any additional pad area above 600 square feet	0.70	200	200	
Mobile Home/RV Holding Tank disposal station	$11,170.70	$14,692.58	$17,617.38	lump sum				2.00
Non-Standard Connections[3]	Varies	Varies	Varies	to be determined by District				
INDUSTRIAL								
Volume Component	$10.24	$20.25	$24.80	per 1,000 gallons of est. avg. annual discharge volume				
COD Component	$659.95	$518.66	$543.07	per 1,000 lbs of est. avg. annual COD demand loading				
SS Component	$1,421.64	$1,118.96	$1,199.97	per 1,000 lbs of est. avg. annual SS demand loading				

Industrial charges listed must be paid 4 times: once prior to permit issuance and at end of each year for 3 additional years.
If charges total less than $500, all charges shall be paid in one installment prior to permit issuance.

Note: The minimum charge per any initial connection shall equal the charge for a Multi-Family Residential Dwelling Unit.
The minimum charge was previously the charge for a Single Family Residence.

1 Proposed maximum fees are calculated based on the updated unit costs for flow, BOD, and SS applied to the estimated wastewater flow and strength characteristics of each type of connection.

2 Fee applies to homes with up to 4,500 square feet of building area; additional capacity fees for area in excess of 4,500 square feet shall be calculated on a pro-rata basis.

3 Capacity fees for other types of uses shall be determined by District staff based on estimated wastewater flow and strength.

Table 21b
Union Sanitary District
Estimated Capacity Fee Revenues (Updated Fees) - Conservative CIP

Based on Updated Capacity Fees & RMC Development Projections

Annual Fee Escalation	2.0%

Year	1	2	3	4	5	6	7	8	9	10	Total
DEVELOPMENT PROJECTIONS[1]											
Slow Growth: Avg Annual Growth = Roughly 840 EDUs[2]											
Single Family (DU)	7	64	339	111	43	320	320	320	320	320	2,164
Multi-Family (DU)	162	263	1,090	2,433	740	110	110	110	110	110	5,238
Commercial (SF)	0	282,000	750,000	527,000	177,000	21,600	21,600	21,600	21,600	21,600	1,844,000
R&D/Industrial (SF)	66,000	74,000	462,000	405,000	122,000	178,800	178,800	178,800	178,800	178,800	2,023,000
Fast Growth: Avg Annual Growth = Roughly 3,400 EDUs[2]											
Single Family (DUs)	28	1,364	833	580	28	38	38	38	38	38	3,023
Multi-Family (DUs)	182	808	2,003	5,836	182	312.6	312.6	312.6	312.6	312.6	10,574
Commercial (SF)	17,000	1,126,000	253,000	1,732,000	17,000	7,745,600	7,745,600	7,745,600	7,745,600	7,745,600	41,873,000
Industrial (SF)	270,000	1,012,000	326,000	270,000	270,000	991,000	991,000	991,000	991,000	991,000	7,103,000
PROPOSED CAPACITY FEES + ANNUAL FEE ESCALATION											
Single Family (per EDU)	$8,809	$8,985	$9,165	$9,348	$9,535	$9,726	$9,921	$10,119	$10,321	$10,527	
Multi-Family (per EDU)	7,550	7,701	7,855	8,012	8,172	8,335	8,502	8,672	8,845	9,022	
Commercial (per SF) est.	3.99	4.07	4.15	4.23	4.31	4.40	4.49	4.58	4.67	4.76	
Industrial (per SF) est.	3.99	4.07	4.15	4.23	4.31	4.40	4.49	4.58	4.67	4.76	
REVENUE PROJECTIONS											
Slow Growth											
Single Family (DU)	$61,661	$575,040	$3,106,935	$1,037,628	$410,005	$3,112,320	$3,174,720	$3,238,080	$3,302,720	$3,368,640	$21,387,749
Multi-Family (DU)	1,223,149	2,025,363	8,561,950	19,493,196	6,047,280	916,850	935,220	953,920	972,950	992,420	42,122,298
Commercial (SF)	0	1,147,740	3,112,500	2,229,210	762,870	95,040	96,984	98,928	100,872	102,816	7,746,960
Industrial (SF)	263,076	301,180	1,917,300	1,713,150	525,820	786,720	802,812	818,904	834,996	851,088	8,815,046
Total	1,547,886	4,049,323	16,698,685	24,473,184	7,745,975	4,910,930	5,009,736	5,109,832	5,211,538	5,314,964	80,072,053
Fast Growth											
Single Family (DUs)	$246,643	$12,255,540	$7,634,445	$5,421,840	$266,980	$369,588	$376,998	$384,522	$392,198	$400,026	$27,748,780
Multi-Family (DUs)	1,374,155	6,222,408	15,733,565	46,758,032	1,487,304	2,605,521	2,657,725	2,710,867	2,764,947	2,820,277	85,134,802
Commercial (SF)	67,762	4,582,820	1,049,950	7,326,360	73,270	34,080,640	34,777,744	35,474,848	36,171,952	36,869,056	190,474,402
Industrial (SF)	1,076,220	4,118,840	1,352,900	1,142,100	1,163,700	4,360,400	4,449,590	4,538,780	4,627,970	4,717,160	31,547,660
Total	2,764,781	27,179,608	25,770,860	60,648,332	2,991,254	41,416,149	42,262,057	43,109,017	43,957,067	44,806,519	334,905,644

1 Source: RMC projections of annual service connections in the District's service area developed for the Alvarado Basin Sewer Master Plan Update; projections are based on information from the planning departments of Union City, Fremont, and Newark.

2 Number of EDUs estimated based on revenues divided by capacity fee per EDU.

Note: Union Sanitary District Conservative 10-Year CIP = $195,450,000 including $152,800,000 for R&R and $42,650,000 for Capacity improvements.

Table 22b
Union Sanitary District
Estimated Capacity Fee Revenues (Updated Fees) - Conservative CIP

Annual Fee Escalation	2.0%

Year	1	2	3	4	5	6	7	8	9	10	Total
BASED ON CURRENT CAPACITY FEES											
Capacity Fee	**$5,596**	**$5,708**	**$5,822**	**$5,938**	**$6,057**	**$6,178**	**$6,302**	**$6,428**	**$6,557**	**$6,688**	
500 EDUs	500	500	500	500	500	500	500	500	500	500	5,000
Revenues	$2,797,830	$2,854,000	$2,911,000	$2,969,000	$3,028,500	$3,089,000	$3,151,000	$3,214,000	$3,278,500	$3,344,000	$30,636,830
1000 EDUs	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
Revenues	$5,595,660	$5,708,000	$5,822,000	$5,938,000	$6,057,000	$6,178,000	$6,302,000	$6,428,000	$6,557,000	$6,688,000	$61,273,660
1500 EDUs	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,000
Revenues	$8,393,490	$8,562,000	$8,733,000	$8,907,000	$9,085,500	$9,267,000	$9,453,000	$9,642,000	$9,835,500	$10,032,000	$91,910,490
2000 EDUs	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
Revenues	$11,191,320	$11,416,000	$11,644,000	$11,876,000	$12,114,000	$12,356,000	$12,604,000	$12,856,000	$13,114,000	$13,376,000	$122,547,320
BASED ON PROPOSED CAPACITY FEES											
Capacity Fee	**$8,809**	**$8,985**	**$9,165**	**$9,348**	**$9,535**	**$9,726**	**$9,921**	**$10,119**	**$10,321**	**$10,527**	
500 EDUs	500	500	500	500	500	500	500	500	500	500	5,000
Revenues	$4,404,345	$4,492,500	$4,582,500	$4,674,000	$4,767,500	$4,863,000	$4,960,500	$5,059,500	$5,160,500	$5,263,500	$48,227,845
1000 EDUs	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
Revenues	$8,808,690	$8,985,000	$9,165,000	$9,348,000	$9,535,000	$9,726,000	$9,921,000	$10,119,000	$10,321,000	$10,527,000	$96,455,690
1500 EDUs	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,000
Revenues	$13,213,035	$13,477,500	$13,747,500	$14,022,000	$14,302,500	$14,589,000	$14,881,500	$15,178,500	$15,481,500	$15,790,500	$144,683,535
2000 EDUs	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
Revenues	$17,617,380	$17,970,000	$18,330,000	$18,696,000	$19,070,000	$19,452,000	$19,842,000	$20,238,000	$20,642,000	$21,054,000	$192,911,380

Note: Union Sanitary District Conservative 10-Year CIP = $195,450,000 including $152,800,000 for R&R and $42,650,000 for Capacity improvements.

AGGRESSIVE CIP

Table 12c
Union Sanitary District
Recoverable Costs - Aggressive CIP

	Total Recoverable Cost	Multiplier	Discounted Cost For Capacity Fee Recovery
Treatment Plant Assets			
Cost of Existing Assets (May 2015 $)[1]	$274,352,929	90%	$246,917,636
Expansion-Related CIP Projects	38,975,000	90%	35,077,500
Subtotal	313,327,929		281,995,136
Collection System Assets			
Cost of Existing Assets (May 2015 $) [1]	*$1,290,605,757*	*not used*	
Alternative Pipeline Valuation[2]	1,197,964,486	90%	$1,078,168,037
Value of Lift Stations[1]	3,483,470	90%	3,135,123
Expansion-Related CIP Projects	13,975,000	90%	12,577,500
Subtotal	1,215,422,956		1,093,880,660
Pump Station & Conveyance			
Cost of Existing Assets (May 2015 $)[1]	$124,657,287	90%	$112,191,558
Expansion-Related CIP Projects	23,000,000	90%	20,700,000
Subtotal	147,657,287		132,891,558
General/Administrative Facilities & Assets			
Cost of Existing Assets (May 2015 $)[1]	$153,974,113	90%	$138,576,702
Expansion-Related CIP Projects	6,900,000	90%	6,210,000
Subtotal	160,874,113		144,786,702
EBDA Effluent Disposal Facilities			
Cost of Existing Assets (May 2015 $)[1]	$70,505,301	90%	$63,454,771
TOTAL	**$1,907,787,586**		**$1,717,008,828**

1 Based on ENR-adjusted purchase price.
2 Based on pipeline diameter, length, and replacement cost per linear foot.
Note: Excludes CIP costs for repairs & replacements to existing assets.

Table 13c
Union Sanitary District
Cost Allocation - Aggressive CIP

	Cost for Fee Recovery	Cost Allocation %			Cost Allocation $		
		Flow	BOD	SS	Flow	BOD	SS
Treatment Plant	$281,995,136	22.2%	43.8%	34.0%	$62,683,525	$123,390,417	$95,921,193
Collection System	1,093,880,660	100.0%	0.0%	0.0%	1,093,880,660	0	0
Pump Station & Conveyance	132,891,558	100.0%	0.0%	0.0%	132,891,558	0	0
General/Admin Facilities & Assets	144,786,702	50.0%	25.0%	25.0%	72,393,351	36,196,676	36,196,676
EBDA Effluent Disposal Facilities	63,454,771	100.0%	0.0%	0.0%	63,454,771	0	0
Total	1,717,008,828	83.0%	9.3%	7.7%	1,425,303,866	159,587,093	132,117,869

Table 14c
Union Sanitary District
Unit Cost Calculations - Aggressive CIP

	FLOW		BOD		SS	
Treatment Plant						
Cost Allocation	$62,683,525		$123,390,417		$95,921,193	
Capacity	33	mgd	88,548	lbs/day	70,732	lbs/day
Unit Cost	$1,899,501	per mgd	$1,393.49	per lb/day	$1,356.13	per lb/day
	1.900	per gpd				
	$5.20	per 1000 glns	$3,817.77	per 1000 lbs	$3,715.43	per 1000 lbs
Collection System						
Cost Allocation	$1,093,880,660					
Capacity	39	mgd				
Unit Cost	$28,048,222	per mgd				
	28.048	per gpd				
	$76.84	per 1000 glns				
Pump Station & WWTP Conveyance						
Cost Allocation	$132,891,558					
Capacity	39	mgd				
Unit Cost	$3,407,476	per mgd				
	3.407	per gpd				
	$9.34	per 1000 glns				
General/Admin Facilities & Assets						
Cost Allocation	$72,393,351		$36,196,676		$36,196,676	
Capacity	39	mgd	88,548	lbs/day	70,732	lbs/day
Unit Cost	$1,856,240	per mgd	$408.78	per lb/day	$511.75	per lb/day
	1.856	per gpd				
	$5.09	per 1000 glns	$1,119.95	per 1000 lbs	$1,402.05	per 1000 lbs
EBDA Effluent Disposal Facilities						
Cost Allocation	$63,454,771					
Capacity	42.9	mgd				
Unit Cost	$1,479,132	per mgd				
	1.479	per gpd				
	$4.05	per 1000 glns				
	FLOW		**BOD**		**SS**	
Total Unit Costs	**$36,690,571**	**per mgd**	**$1,802.27**	**per lb/day**	**$1,867.88**	**per lb/day**
	$36.69	**per gpd**				
	$100.52	**per 1000 gls**	**$4,937.72**	**per 1000 lbs**	**$5,117.47**	**per 1000 lbs**
COD Conversion			**COD**			
Assumes BOD = COD x 0.47			**$847.07**	**per lb/day**		
			$2,320.73	**per 1000 lbs**		

Table 15c
Union Sanitary District
Capacity Fee per EDU - Aggressive CIP

	FLOW		BOD		SS		TOTAL
EDU Definition[1]	210	gpd	200	mg/l	200	mg/l	
			0.128	1000 lbs	0.128	1000 lbs	
Unit Costs	$36.69	per gpd	$4,937.72	per 1000 lbs	$5,117.47	per 1000 lbs	
Capacity Charge	$7,704.90		$631.30		$654.28		**$8,990.48**

1 An Equivalent Dwelling Unit (EDU) represents the wastewater discharge from a typical single family home.

Table 16c
Union Sanitary District
Industrial Capacity Fees - Aggressive CIP

	FLOW		COD		SS	
Proposed Industrial Fees						
Unit Costs	$100.52	per 1000 gallons	$2,320.73	per 1000 lbs	$5,117.47	per 1000 lbs
	36.69	per gpd	847.07	per lb/day	1,867.88	per lb/day
Divided by 4	25.13	per 1000 gallons	580.18	per 1000 lbs	1,279.37	per 1000 lbs
	9.17	per gpd	211.77	per lb/day	466.97	per lb/day

Note: Industrial fees are collected in 4 installments including an initial charge plus three additional charges for each subsequent year based on actual wastewater flow and strength from the prior annual period.

Table 17c
Union Sanitary District
Wastewater Flow Estimates - Aggressive CIP

CONNECTION CATEGORY	UNIT DEFINITION	FLOW ESTIMATE	SOURCE / COMPARISONS
RESIDENTIAL & COMMERCIAL			
Single Family Dwelling Unit	per unit *(new construction only; not additions or*	210 gpd per dwelling unit	BWA analysis of 4 years of ACWD water data Union Sanitary District current flow estimate: 210 gpd
Multi-Family Dwelling Unit	per unit *(new construction only; not additions or*	180 gpd per dwelling unit	BWA analysis of 4 years of ACWD water data Union Sanitary District current flow estimate: 210 gpd
Commercial/Industrial/Office use (C/I/O) (Domestic Use Only) and Mixed Use Commercial Property with individual tenant units exceeding 10,000 square feet	per square foot of building floor area	0.10 gpd per square foot	Union Sanitary District current flow estimate: 0.10 gpd/sf West Valley Sanitary District: Office Building 0.14 gpd/sf, Retail Stores: 0.072-0.076 gpd/sf Mountain View: Commercial 0.10 gpd/sf, Office/R&D 0.15 gpd/sf Dublin San Ramon Services District: General Office Building/General Retail/Commercial 0.05 gpd/sf LA County SD#2: Office Building 0.20 gpd/sf, Store 0.10 gpd/sf Palo Alto: Gen Commercial 0.125 gpd/sf San Jose: 0.10 gpd/sf
Boarding Establishments	per unit, or per capita design tenant	140 gpd per unit 70 gpd per capita	Union Sanitary District current flow estimate: 140 gpd/unit, 70 gpd/capita West Valley SD: Hotel/Motel 120 gpd/room (w/ dining), 50 gpd (w/o dining), Convalescent 520 gpd/bed LA County SD#2: Hotel/Motel 125 gpd/room, Convalescent 125/bed Victorville: Hotel/Motel about 125 gpd/room (w/o kitchen), 185 gpd/room (w/ kitchen) Sacramento Regional CSD: 0.2 EDUs/bed 0.4 EDUs/room (est. 100 gpd/room) Monterey Regional WPCA: Hotel/Motel 82 gpd/room, Transient Occupancy 210 gpd/unit Dublin San Ramon Services District: Hotels Motels (excluding dining facilities) 130 gpd/room
Schools and Day Care Centers (Boarding Facilities Excluded)	per square foot of building floor area	0.14 gpd per square foot	West Valley SD: School/Day Care 0.183 gpd/sf LA County SD#2: Private School 0.20 gpd/sf Literature Search - User Discharge Classification: Schools 0.20 gpd/per sf (references SWRCB) Union Sanitary District current flow estimate: 0.14 gpd/sf
Churches (School & Day Care facilities excluded)	per square foot of building floor area	0.10 gpd per square foot	Union Sanitary District: Church 0.28 gpd/sf LA County SD#2: Church 0.50 gpd/sf Victorville: Church 0.025 gpd/sf (w/o kitchen) 0.050 gpd/sf (w/ kitchen) Sacramento Regional CSD: est. 0.070 gpd/sf
Public Assembly Facilities	per seat	5 gpd per seat	Union Sanitary District current flow estimate: 5 gpd per seat SWRCB G-24 Theater 5 gpd per seat, Visitor Center 5 gpd per visitor SWRCB G-23: Assembly Hall 2 gpd per seat, Theater 3 gpd per seat; West Valley SD: Auditorium/Halls 0.11 gpd/sf Dublin San Ramon SD: Theater 2 gpd per seat, Banquet Facilities with Intermittant use 0.27 gpd/sf LA County SD#2: Club & Lodge Halls 0.125 gpd/sf, Auditorium 0.35 gpd/sf
Health Clubs (with fitness equipment, showers, and/or pool)	per square foot of building floor area	0.42 gpd per square foot	Union Sanitary District current flow estimate: 0.42 gpd/sf LA County SD#2: Health Spa/Gym 0.30 gpd/sf (w/o showers), 0.60 gpd/sf (w/ showers) West Valley SD: Health Studios/Gyms 0.20 gpd/sf (w/o showers), 0.42 gpd/sf (w/ showers) Sacramento Regional CSD: Gyms/Health Clubs est. 0.075 gpd/sf Livermore: Gyms/Health Clubs 0.30 gpd/sf Dublin San Ramon Services District: Gyms/Health Clubs 0.42 gpd/sf
Park or Recreation Site restrooms	per water closet	1.0 EDU	Union Sanitary District current fee: 1.0 EDU
Coin-operated Laundromats	per washing machine	160 gpd per machine	Union Sanitary District current flow estimate: 160 gpd/machine (*a recent USD review of several laundromats* estimated the conversion to flow per square foot at 3.12 gpd/sf) Dublin San Ramon Services District: 130 gpd/machine Victorville: about 120 gpd/machine West Valley SD: 2.52 gpd/sf

Table 17c
Union Sanitary District
Wastewater Flow Estimates - Aggressive CIP

CONNECTION CATEGORY	UNIT DEFINITION	FLOW ESTIMATE	SOURCE / COMPARISONS
Restaurants - All	per square foot of building floor area	0.50 gpd per square foot	Union Sanitary District current flow estimate: 0.50 gpd/sf *(District survey of water use from 44 full service and 44 fast food restaurants from 1993/94 and 1994/95 averaged 0.57 gpd/sf)* West Valley Sanitary District: Full Svc 1.01 gpd/sf, Fast Food 0.90 gpd/sf) Milpitas: Large Restaurant 1.04 gpd/sf, Small Restaurant 0.60 gpd/sf Dublin San Ramon SD: Full Service 0.54 gpd/sf, Fast Food 0.60 gpd/sf Sacramento Regional CSD: 0.37-0.44 gpd/sf Mt. View: Restaurant 1.0 gpd/sf LA County SD#2: Restaurant 1.0 gpd/sf
Eating/Drinking facilities without cooking facilities	per square foot of building floor area	0.25 gpd/ square foot	Union Sanitary District current flow estimate: 0.25 gpd/sf (1/2 of a regular restaurant) West Valley Sanitary District: Bars 0.072 gpd/sf Dublin San Ramon Services District: Bars/Coctail Lounges/Taverns w/o dining 0.35 gpd/sf SWRCB 35 gpd per seat
Car Wash with water recycling	lump sum	1.0 EDU	Union Sanitary District current fee: 1.0 EDU West Valley SD: Car Wash 1.70 gpd/sf Dublin San Ramon Services District 1.70 gpd/sf LA County SD#2: Car Wash Tunnel 2.70 gpd/sf (w/ recycling), Wand 0.70 gpd/sf
Mixed-use Commercial property with individual tenant units less than 10,000 square feet	per square foot of building floor area	0.22 gpd per square foot	Assumes 70% standard strength commercial flow and 30% restaurant flow based on District analysis of a sample of existing mixed-use parcels
Warehouses	per square foot of building floor area up to 50,000 square feet	0.04 gpd per square foot	Union Sanitary District current flow estimate: 0.04 gpd/sf (Brown & Caldwell 1996 Capacity Fee Analysis) Dublin San Ramon Services District: Warehouse/Distribution 0.03 gpd/sf West Valley Sanitary District: Warehouse 0.052 gpd/sf LA County SD#2: Warehousing 0.025 gpd/sf Victorville: Warehouse 0.0125 gpd/sf
	per square foot of building floor area for that portion of each building above 50,000 square feet	0.01 gpd per square foot	Union Sanitary District current flow estimate: 0.01 gpd/sf (Brown & Caldwell 1996 Capacity Fee Analysis)
Private cafeterias	per square foot of floor area for food preparation, cooking, food storage, and food service areas (excluding seating areas)	0.50 gpd per square foot	Union Sanitary District current flow estimate: 0.50 gpd/sf West Valley Sanitary District: Cafeteria Style Restaurant 0.71 gpd/sf Dublin San Ramon Services District: Cafeteria (day use) 0.40 gpd/sf
Equipment Wash Pad with Interceptor	lump sum, plus	1 EDU	Union Sanitary District current fee: 1.0 EDU
	per square foot for any additional pad area above 600 square feet	0.70 gpd per square foot	Union Sanitary District current flow estimate: 0.07 gpd/sf
Mobile Home/RV Holding Tank disposal station	lump sum	2 EDUs	Union Sanitary District current fee: 2.0 EDUs
Miscellaneous	to be determined by District		

Table 18c
Union Sanitary District
Proposed Maximum Capacity Fees - Aggressive CIP

CONNECTION CATEGORY	CHARGE PER UNIT			UNIT DEFINITION	FLOW	BOD	SS	EDUs
	Current	2010 Max	2015 Update[1]		(Per Unit)	(mg/l)	(mg/l)	if applicable
RESIDENTIAL & COMMERCIAL								
Single Family Dwelling Unit[2]	$5,595.66	$7,346.29	$8,990.48	per unit *(new construction only; not additions or repairs)*	210	200	200	1.00
Multi-Family Dwelling Unit	$4,796.28	$6,296.82	$7,706.12	per unit *(new construction only; not additions or repairs)*	180	200	200	0.86
Commercial/Industrial/Office use (C/I/O) (Domestic Use Only) and Mixed Use Commercial Property with individual tenant units exceeding 10,000 square feet	$2.64	$3.30	$4.06	per square foot of building floor area	0.10	140	115	
Mixed-use Commercial property with individual tenant units less than 10,000 square feet	$6.36	$8.77	$10.62	per square foot of building floor area	0.22	440	320	
Boarding Establishments	$3,733.21	$4,897.53	$5,993.65	per unit, or	140	200	200	0.67
Including Hotels and Motels	$1,866.58	$2,448.76	$2,996.83	per capita design tenant	70	200	200	0.33
Schools and Day Care Centers (Boarding Facilities Excluded)	$2.99	$4.58	$5.63	per square foot of building floor area	0.14	130	100	
Churches (School & Day Care facilities	$2.12	$3.27	$4.02	per square foot of building	0.10	130	100	
Public Assembly Facilities	$133.30	$174.91	$214.06	per seat	5	200	200	
Health Clubs	$8.97	$13.73	$16.88	per square foot of building	0.42	130	100	
Park or Recreation Site Restrooms	$5,595.66	$7,346.29	$8,990.48	per water closet				1.00
Coin-operated Laundromats	$4,263.81	$5,293.48	$6,505.32	per washing machine	160	150	110	
Restaurants - All	$22.06	$25.59	$30.53	per square foot of building	0.50	1000	600	
Eating/Drinking facilities without cooking	$11.09	$8.75	$10.70	per square foot of building	0.25	200	200	
Car Wash with water recycling	$5,595.66	$7,346.29	$8,990.48	lump sum		20	150	1.00

Table 18c
Union Sanitary District
Proposed Maximum Capacity Fees - Aggressive CIP

CONNECTION CATEGORY	CHARGE PER UNIT			UNIT DEFINITION	FLOW	BOD	SS	EDUs
	Current	2010 Max	2015 Update[1]		(Per Unit)	(mg/l)	(mg/l)	if applicable
Warehouses	$1.02	$1.40	$1.71	per square foot of building floor area up to 50,000	0.04	200	200	
	$0.32	$0.35	$0.43	per square foot of building floor area for that portion of each building above 50,000 square feet	0.01	200	200	
Private cafeterias	$22.06	$25.59	$30.53	per square foot of floor area for food preparation, cooking, food storage, and food service areas (excluding seating areas)	0.50	1000	600	
Equipment Wash Pad with Interceptor	$5,595.66	$7,346.29	$8,990.48	lump sum, plus				1.00
	$17.18	$24.49	$29.97	per square foot for any additional pad area above 600 square feet	0.70	200	200	
Mobile Home/RV Holding Tank disposal station	$11,170.70	$14,692.58	$17,980.96	lump sum				2.00
Non-Standard Connections[3]	Varies	Varies	Varies	to be determined by District				
INDUSTRIAL								
Volume Component	$10.24	$20.25	$25.13	per 1,000 gallons of est. avg. annual discharge volume				
COD Component	$659.95	$518.66	$580.18	per 1,000 lbs of est. avg. annual COD demand loading				
SS Component	$1,421.64	$1,118.96	$1,279.37	per 1,000 lbs of est. avg. annual SS demand loading				

Industrial charges listed must be paid 4 times: once prior to permit issuance and at end of each year for 3 additional years.
If charges total less than $500, all charges shall be paid in one installment prior to permit issuance.

Note: The minimum charge per any initial connection shall equal the charge for a Multi-Family Residential Dwelling Unit.
The minimum charge was previously the charge for a Single Family Residence.
1 Proposed maximum fees are calculated based on the updated unit costs for flow, BOD, and SS applied to the estimated wastewater flow and strength characteristics of each type of connection.
2 Fee applies to homes with up to 4,500 square feet of building area; additional capacity fees for area in excess of 4,500 square feet shall be calculated on a pro-rata basis.
3 Capacity fees for other types of uses shall be determined by District staff based on estimated wastewater flow and strength.

Table 21c
Union Sanitary District
Estimated Capacity Fee Revenues A (Updated Fees) - Aggressive CIP

Based on Updated Capacity Fees & RMC Development Projections

Annual Fee Escalation	2.0%

Year	1	2	3	4	5	6	7	8	9	10	Total
DEVELOPMENT PROJECTIONS[1]											
Slow Growth: Avg Annual Growth = Roughly 840 EDUs[2]											
Single Family (DU)	7	64	339	111	43	320	320	320	320	320	2,164
Multi-Family (DU)	162	263	1,090	2,433	740	110	110	110	110	110	5,238
Commercial (SF)	0	282,000	750,000	527,000	177,000	21,600	21,600	21,600	21,600	21,600	1,844,000
R&D/Industrial (SF)	66,000	74,000	462,000	405,000	122,000	178,800	178,800	178,800	178,800	178,800	2,023,000
Fast Growth: Avg Annual Growth = Roughly 3,400 EDUs[2]											
Single Family (DUs)	28	1,364	833	580	28	38	38	38	38	38	3,023
Multi-Family (DUs)	182	808	2,003	5,836	182	312.6	312.6	312.6	312.6	312.6	10,574
Commercial (SF)	17,000	1,126,000	253,000	1,732,000	17,000	7,745,600	7,745,600	7,745,600	7,745,600	7,745,600	41,873,000
Industrial (SF)	270,000	1,012,000	326,000	270,000	270,000	991,000	991,000	991,000	991,000	991,000	7,103,000
PROPOSED CAPACITY FEES + ANNUAL FEE ESCALATION											
Single Family (per EDU)	$8,990	$9,170	$9,353	$9,540	$9,731	$9,926	$10,125	$10,328	$10,535	$10,746	
Multi-Family (per EDU)	7,706	7,860	8,017	8,177	8,341	8,508	8,678	8,852	9,029	9,210	
Commercial (per SF) est.	4.06	4.14	4.22	4.30	4.39	4.48	4.57	4.66	4.75	4.85	
Industrial (per SF) est.	4.06	4.14	4.22	4.30	4.39	4.48	4.57	4.66	4.75	4.85	
REVENUE PROJECTIONS											
Slow Growth											
Single Family (DU)	$62,933	$586,880	$3,170,667	$1,058,940	$418,433	$3,176,320	$3,240,000	$3,304,960	$3,371,200	$3,438,720	$21,829,053
Multi-Family (DU)	1,248,392	2,067,180	8,738,530	19,894,641	6,172,340	935,880	954,580	973,720	993,190	1,013,100	42,991,553
Commercial (SF)	0	1,167,480	3,165,000	2,266,100	777,030	96,768	98,712	100,656	102,600	104,760	7,879,106
Industrial (SF)	267,866	306,360	1,949,640	1,741,500	535,580	801,024	817,116	833,208	849,300	867,180	8,968,774
Total	1,579,192	4,127,900	17,023,837	24,961,181	7,903,383	5,009,992	5,110,408	5,212,544	5,316,290	5,423,760	81,668,487
Fast Growth											
Single Family (DUs)	$251,733	$12,507,880	$7,791,049	$5,533,200	$272,468	$377,188	$384,750	$392,464	$400,330	$408,348	$28,319,410
Multi-Family (DUs)	1,402,515	6,350,880	16,058,051	47,720,972	1,518,062	2,659,601	2,712,743	2,767,135	2,822,465	2,879,046	86,891,470
Commercial (SF)	68,996	4,661,640	1,067,660	7,447,600	74,630	34,700,288	35,397,392	36,094,496	36,791,600	37,566,160	193,870,462
Industrial (SF)	1,095,817	4,189,680	1,375,720	1,161,000	1,185,300	4,439,680	4,528,870	4,618,060	4,707,250	4,806,350	32,107,727
Total	2,819,061	27,710,080	26,292,480	61,862,772	3,050,460	42,176,757	43,023,755	43,872,155	44,721,645	45,659,904	341,189,069

1 Source: RMC projections of annual service connections in the District's service area developed for the Alvarado Basin Sewer Master Plan Update; projections are based on information from the planning departments of Union City, Fremont, and Newark.
2 Number of EDUs estimated based on revenues divided by capacity fee per EDU.
Note: Union Sanitary District Moderate 10-Year CIP = $196,150,000 including $134,012,500 for R&R and $62,137,500 for Capacity improvements.

Table 22c
Union Sanitary District
Estimated Capacity Fee Revenues B (Updated Fees) - Aggressive CIP

Annual Fee Escalation	2.0%

Year	1	2	3	4	5	6	7	8	9	10	Total
BASED ON CURRENT CAPACITY FEES											
Capacity Fee	**$5,596**	**$5,708**	**$5,822**	**$5,938**	**$6,057**	**$6,178**	**$6,302**	**$6,428**	**$6,557**	**$6,688**	
500 EDUs	500	500	500	500	500	500	500	500	500	500	5,000
Revenues	$2,797,830	$2,854,000	$2,911,000	$2,969,000	$3,028,500	$3,089,000	$3,151,000	$3,214,000	$3,278,500	$3,344,000	$30,636,830
1000 EDUs	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
Revenues	$5,595,660	$5,708,000	$5,822,000	$5,938,000	$6,057,000	$6,178,000	$6,302,000	$6,428,000	$6,557,000	$6,688,000	$61,273,660
1500 EDUs	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,000
Revenues	$8,393,490	$8,562,000	$8,733,000	$8,907,000	$9,085,500	$9,267,000	$9,453,000	$9,642,000	$9,835,500	$10,032,000	$91,910,490
2000 EDUs	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
Revenues	$11,191,320	$11,416,000	$11,644,000	$11,876,000	$12,114,000	$12,356,000	$12,604,000	$12,856,000	$13,114,000	$13,376,000	$122,547,320
BASED ON PROPOSED CAPACITY FEES											
Capacity Fee	**$8,990**	**$9,170**	**$9,353**	**$9,540**	**$9,731**	**$9,926**	**$10,125**	**$10,328**	**$10,535**	**$10,746**	
500 EDUs	500	500	500	500	500	500	500	500	500	500	5,000
Revenues	$4,495,240	$4,585,000	$4,676,500	$4,770,000	$4,865,500	$4,963,000	$5,062,500	$5,164,000	$5,267,500	$5,373,000	$49,222,240
1000 EDUs	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
Revenues	$8,990,480	$9,170,000	$9,353,000	$9,540,000	$9,731,000	$9,926,000	$10,125,000	$10,328,000	$10,535,000	$10,746,000	$98,444,480
1500 EDUs	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,000
Revenues	$13,485,720	$13,755,000	$14,029,500	$14,310,000	$14,596,500	$14,889,000	$15,187,500	$15,492,000	$15,802,500	$16,119,000	$147,666,720
2000 EDUs	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
Revenues	$17,980,960	$18,340,000	$18,706,000	$19,080,000	$19,462,000	$19,852,000	$20,250,000	$20,656,000	$21,070,000	$21,492,000	$196,888,960

Note: Union Sanitary District Moderate 10-Year CIP = $196,150,000 including $134,012,500 for R&R and $62,137,500 for Capacity improvements.

APPENDIX C

Union Sanitary District
Fixed Asset List & Valuation

Union Sanitary District
Fixed Asset Valuation
Based on Fixed Asset Schedule dated 6/30/14

ENR-CCI 20-Cities, May 2015: 9,979

Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
BUILDINGS								
1431	Concrete Pump Station Structure	12/31/1960	$21,985	$21,985	$0	824	$266,248	$0
1465	Painting	12/31/1979	$26,000	$26,000	$0	3,003	$86,398	$0
1469	Fencing	12/31/1979	$27,000	$27,000	$0	3,003	$89,721	$0
1539	Excavation/Backfill/Duct Encas	12/31/1979	$60,000	$51,750	$8,250	3,003	$199,381	$27,415
1731	Structual Items	12/31/1979	$0	$0	$0	3,003	$0	$0
1759	Structural Items	12/31/1979	$314,216		$43,205	3,003	$1,044,143	$143,570
1763	Trench Excavation & Backfill	12/31/1979	$330,500	$285,056	$45,444	3,003	$1,098,255	$151,010
1790	Roofing	12/31/1979	$385,000	$385,000	$0	3,003	$1,279,359	$0
1794	Painting	12/31/1979	$400,000	$400,000	$0	3,003	$1,329,204	$0
1797	Iron & Structural Steel - Misc	12/31/1979	$550,000	$474,375	$75,625	3,003	$1,827,656	$251,303
1814	Major Structure & Ground Prepa	12/31/1979	$0	$0	$0	3,003	$0	$0
1819	Electrical Equipment & Materia	12/31/1979	$712,000	$614,100	$97,900	3,003	$2,365,983	$325,323
1835	Major Structure & Ground Prepa	12/31/1979	$999,805	$862,332	$137,473	3,003	$3,322,362	$456,825
1864	Structual Components	12/31/1979	$1,882,800	$1,623,915	$258,885	3,003	$6,256,564	$860,278
1869	Earthwork and Excavation for 1	12/31/1979	$2,101,100	$1,812,199	$288,901	3,003	$6,981,977	$960,022
1891	Non Structural Costs - Enginee	12/31/1979	$4,462,744	$3,849,117	$613,627	3,003	$14,829,744	$2,039,090
1896	Major Structure (Strl Cncrt Pr	12/31/1979	$6,193,750	$5,342,109	$851,641	3,003	$20,581,895	$2,830,011
1468	Control Building & Paving	12/31/1985	$44,625	$31,795	$12,830	4,195	$106,153	$30,519
1482	Concrete Structure Below Groun	12/31/1985	$0	$0	$0	4,195	$0	$0
1582	Major Structure & Ground Prep	12/31/1985	$99,310	$70,758	$28,552	4,195	$236,237	$67,918
1674	Structural Items	12/31/1985	$183,784	$130,946	$52,838	4,195	$437,182	$125,690
1466	Primary Clarifier Roof	12/31/1991	$26,062	$26,062	$0	4,835	$53,790	$0
1559	Plant Lighting Improvements	12/31/1991	$51,091	$51,091	$0	4,835	$105,447	$0
1805	Plant Lighting Improvements	12/31/1991	$453,120	$453,120	$0	4,835	$935,198	$0
1707	Roof Replacement	12/31/1993	$149,959	$149,959	$0	5,210	$287,225	$0
1280	Seismic Design - Primary Bldg	12/31/1994	$13,986	$13,986	$0	5,408	$25,807	$0
1595	Walkway Improvements	12/31/1994	$67,500	$67,500	$0	5,408	$124,553	$0
1775	Benson Road Improvements	12/31/1995	$321,655	$321,655	$0	5,471	$586,693	$0
1793	Capitalized Interest on Constr	6/30/1996	$1,180,877	$546,156	$634,721	5,620	$2,096,792	$1,127,026
1521	Alvarado Paving Repair	12/31/1997	$48,280	$48,280	$0	5,826	$82,696	$0
1635	Alvarado Admin & Lab Facility	12/31/1998	$122,491	$122,491	$0	5,920	$206,476	$0
1481	Newark PS Access Rd Improvment	12/31/1999	$90,894	$43,932	$46,962	6,059	$149,700	$77,345
665	Ceiling Panels Maint Bldg Pr	12/31/2000	$13,986	$4,720	$9,266	6,221	$22,435	$14,863
877	Site Prep Admin Bldg Proj 28	12/31/2000	$22,858	$7,715	$15,143	6,221	$36,666	$24,291
913	Flooring Tile Admin Bldg Pr	12/31/2000	$25,000	$8,438	$16,563	6,221	$40,102	$26,568
914	Fencing Covered Storage Proj	12/31/2000	$15,640	$8,446	$7,194	6,221	$25,088	$11,540
1028	Lockers Maint Bldg Proj 28-4	12/31/2000	$25,000	$11,250	$13,750	6,221	$40,102	$22,056
1029	Cabinets/Casework Maint Bldg	12/31/2000	$33,422	$11,280	$22,142	6,221	$53,612	$35,518
1145	Flooring Tile Maint Bldg Pr	12/31/2000	$44,260	$14,938	$29,322	6,221	$70,997	$47,035
1182	Paving/Grading Maint Bldg Pr	12/31/2000	$25,000	$16,875	$8,125	6,221	$40,102	$13,033
1213	Fire/Security System Cov Stor	12/31/2000	$27,281	$18,415	$8,866	6,221	$43,761	$14,222

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
1254	Electrical Cov Stor Proj 28-	12/31/2000	$60,711	$20,490	$40,221	6,221	$97,385	$64,518
1270	Elevator Admin Bldg Proj 28-	12/31/2000	$46,723	$21,025	$25,698	6,221	$74,948	$41,221
1315	Paint/Wall Trmt Maint Bldg P	12/31/2000	$27,473	$24,726	$2,747	6,221	$44,069	$4,407
1370	CABINETS/CASEWORK ADMIN BLDG	12/31/2000	$86,951	$29,346	$57,605	6,221	$139,477	$92,403
1447	Fencing	12/31/2000	$68,555	$37,020	$31,535	6,221	$109,968	$50,585
1451	Construction Mgmt & Overhead	12/31/2000	$113,573	$38,331	$75,242	6,221	$182,180	$120,694
1452	Fire/Security System Maint Bl	12/31/2000	$57,540	$38,840	$18,701	6,221	$92,299	$29,997
1483	Ceiling Panels Admin Bldg Pr	12/31/2000	$68,098	$45,966	$22,132	6,221	$109,235	$35,501
1488	Flooring Carpet Maint Bldg	12/31/2000	$35,378	$35,378	$0	6,221	$56,749	$0
1490	Doors/Windows Maint Bldg Pro	12/31/2000	$143,933	$48,577	$95,356	6,221	$230,880	$152,958
1497	Design Cov Stor Proj 28-48	12/31/2000	$147,946	$49,932	$98,015	6,221	$237,318	$157,223
1515	Roof Cov Stor Proj 28-48	12/31/2000	$105,526	$56,984	$48,542	6,221	$169,273	$77,866
1538	Plumbing Maint Bldg Proj 28-	12/31/2000	$208,230	$70,278	$137,952	6,221	$334,018	$221,287
1549	Flooring Carpet Admin Bldg	12/31/2000	$53,485	$53,485	$0	6,221	$85,794	$0
1560	Site Piping Admin Bldg Proj	12/31/2000	$240,700	$81,236	$159,464	6,221	$386,103	$255,793
1561	Fire/Security System Admin Bl	12/31/2000	$120,720	$81,486	$39,234	6,221	$193,645	$62,935
1585	Plumbing	12/31/2000	$286,091	$96,556	$189,535	6,221	$458,913	$304,030
1590	Sidewalk/Curb Common Area Pr	12/31/2000	$148,220	$100,049	$48,172	6,221	$237,757	$77,271
1593	Doors/Windows Admin Bldg Pro	12/31/2000	$304,214	$102,672	$201,542	6,221	$487,985	$323,290
1617	Construction Mgmt & Overhead	12/31/2000	$352,075	$118,825	$233,250	6,221	$564,758	$374,152
1634	Roof Maint Bldg Proj 28-48	12/31/2000	$250,283	$135,153	$115,130	6,221	$401,475	$184,679
1653	Structure Cov Stor Proj 28-4	12/31/2000	$454,617	$153,433	$301,184	6,221	$729,243	$483,124
1654	Design Maint Bldg Proj 28-48	12/31/2000	$458,634	$154,789	$303,845	6,221	$735,687	$487,393
1658	Paint/Wall Trmt Admin Bldg P	12/31/2000	$98,036	$98,036	$0	6,221	$157,258	$0
1666	Roof Admin Bldg Proj 28-48	12/31/2000	$303,561	$163,923	$139,638	6,221	$486,938	$223,991
1679	Landscape/Irrigation Common A	12/31/2000	$198,700	$178,830	$19,870	6,221	$318,731	$31,873
1680	Fuel Island/Tanks Cov Stor P	12/31/2000	$270,586	$182,646	$87,940	6,221	$434,042	$141,064
1692	Electrical Maint Bldg Proj 2	12/31/2000	$626,953	$211,596	$415,356	6,221	$1,005,684	$666,266
1693	HVAC Admin Bldg Proj 28-48	12/31/2000	$405,591	$219,019	$186,572	6,221	$650,601	$299,276
1698	Construction Mgmt and Overhead	12/31/2000	$670,079	$226,151	$443,927	6,221	$1,074,862	$712,096
1727	HVAC Maint Bldg Proj 28-48	12/31/2000	$173,190	$173,190	$0	6,221	$277,812	$0
1730	Electrical Admin Bldg Proj 2	12/31/2000	$827,212	$279,184	$548,028	6,221	$1,326,917	$879,083
1734	Design Admin Bldg proj 28-48	12/31/2000	$872,884	$294,598	$578,286	6,221	$1,400,179	$927,618
1773	Structure Maint Bldg Proj 28	12/31/2000	$1,312,057	$442,819	$869,238	6,221	$2,104,648	$1,394,329
1776	Paving/Grading Admin Bldg Pr	12/31/2000	$686,309	$463,259	$223,050	6,221	$1,100,897	$357,791
1791	Structure Admin Bldg Proj 28	12/31/2000	$4,006,440	$961,715	$3,044,725	6,221	$6,426,662	$4,883,991
1380	Control Bldg Roof Replacement	12/31/2001	$76,502	$31,876	$44,626	6,343	$120,355	$70,207
1648	Roof Replacement Proj 129	12/31/2001	$368,418	$153,508	$214,911	6,343	$579,607	$338,104
475	Paving/Grading Mech Maint Bld	12/31/2002	$13,219	$3,800	$9,419	6,538	$20,176	$14,376
592	Flooring Mech Maint Bldg Proj	12/31/2002	$16,623	$4,779	$11,844	6,538	$25,372	$18,077
766	Roof Mech Maint Bldg Proj 124	12/31/2002	$13,869	$6,380	$7,489	6,538	$21,168	$11,431
834	Fire/Security System Mech Mai	12/31/2002	$16,576	$7,625	$8,951	6,538	$25,300	$13,662
962	Flooring Carpet Control Bldg	12/31/2002	$14,008	$10,739	$3,269	6,538	$21,381	$4,989

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1016	Plumbing Mech Maint Bldg Proj	12/31/2002	$21,254	$12,221	$9,033	6,538	$32,441	$13,787
1094	Flooring Control Bldg Proj 12	12/31/2002	$66,492	$15,293	$51,199	6,538	$101,487	$78,145
1157	WH Portable Office Proj 133	12/31/2002	$30,452	$17,510	$12,942	6,538	$46,479	$19,754
1172	Electrical Mech Maint Bldg Pr	12/31/2002	$31,325	$18,012	$13,313	6,538	$47,812	$20,320
1181	Flooring Tile Control Bldg P	12/31/2002	$24,366	$18,681	$5,685	6,538	$37,190	$8,678
1199	Construction Mgmt & Overhead	12/31/2002	$69,940	$20,108	$49,832	6,538	$106,750	$76,059
1202	Paving/Grading Control Bldg P	12/31/2002	$52,876	$20,269	$32,607	6,538	$80,705	$49,768
1230	Paint/Wall Treatment Control	12/31/2002	$27,737	$21,265	$6,472	6,538	$42,335	$9,878
1293	Roof Control Bldg Proj 124	12/31/2002	$55,474	$25,518	$29,956	6,538	$84,671	$45,722
1298	Structure Mech Maint Bldg Pro	12/31/2002	$89,134	$25,626	$63,508	6,538	$136,047	$96,933
1350	Ceiling Panels Control Bldg P	12/31/2002	$26,085	$26,085	$0	6,538	$39,814	$0
1354	Fire/Security System Control	12/31/2002	$66,305	$30,500	$35,805	6,538	$101,202	$54,649
1473	Cabinets/Casework Control Bld	12/31/2002	$169,079	$48,610	$120,469	6,538	$258,067	$183,872
1474	Plumbing Control Bldg Proj 12	12/31/2002	$85,018	$48,885	$36,132	6,538	$129,763	$55,149
1496	Construction Mgmt & Overhead	12/31/2002	$192,329	$55,295	$137,034	6,538	$293,553	$209,156
1530	Electrical Control Bldg Proj	12/31/2002	$125,302	$72,048	$53,253	6,538	$191,249	$81,281
1545	Construction Mgmt & Overhead	12/31/2002	$277,895	$79,895	$198,000	6,538	$424,154	$302,210
1580	Structure Control Bldg Proj 1	12/31/2002	$356,538	$102,505	$254,033	6,538	$544,186	$387,733
1713	HVAC Control Bldg Proj 124	12/31/2002	$489,282	$281,337	$207,945	6,538	$746,795	$317,388
1486	Proj 152 Paint Booth	6/30/2004	$106,266	$55,790	$50,476	7,115	$149,042	$70,795
745	Fire Alarm Link Btwn Bldgs	6/30/2005	$19,399	$7,372	$12,027	7,446	$25,998	$16,119
941	Control Bldg Ext Paint	6/30/2005	$38,725	$12,263	$26,462	7,446	$51,898	$35,464
995	Fire Detection System	6/30/2005	$36,653	$13,928	$22,725	7,446	$49,122	$30,455
1144	Bird Netting - Covered Storage	6/30/2005	$41,785	$19,848	$21,937	7,446	$56,000	$29,400
1302	Landscaping	6/30/2005	$31,226	$31,226	$0	7,446	$41,849	$0
1440	Landscaping	6/30/2005	$50,388	$47,869	$2,519	7,446	$67,529	$3,376
1485	Electrical Repairs	6/30/2005	$128,704	$61,134	$67,570	7,446	$172,487	$90,556
1696	Expansion of PS Bldg Structure	6/30/2005	$1,557,214	$295,871	$1,261,343	7,446	$2,086,951	$1,690,430
1697	Bldg Improvements	6/30/2005	$1,559,490	$296,303	$1,263,187	7,446	$2,090,001	$1,692,901
1704	Site Work - Paving, Etc.	6/30/2005	$656,025	$311,612	$344,413	7,446	$879,193	$461,576
310	20" Steel Pipe	6/30/2006	$10,364	$2,937	$7,428	7,751	$13,344	$9,563
373	Maint Shop Bldg Ext Paint	6/30/2006	$13,811	$3,913	$9,898	7,751	$17,781	$12,743
380	24" Steel Pipe	6/30/2006	$14,133	$4,004	$10,129	7,751	$18,196	$13,040
502	Comp Room HVAC Unit	6/30/2006	$12,929	$5,495	$7,434	7,751	$16,646	$9,571
578	Comp Room HVAC Unit	6/30/2006	$15,000	$6,375	$8,625	7,751	$19,312	$11,104
704	Field Ops Membrain Roof	6/30/2006	$23,016	$7,825	$15,190	7,751	$29,632	$19,557
787	Silencote Roof - Generator Rm	6/30/2006	$27,822	$9,459	$18,363	7,751	$35,819	$23,641
807	Ctrl Bldg Patio Roof	6/30/2006	$29,017	$9,866	$19,151	7,751	$37,358	$24,656
832	Fire System	6/30/2006	$24,602	$10,456	$14,146	7,751	$31,674	$18,213
892	Sidewalk/Curb Common Area	6/30/2006	$29,371	$12,483	$16,888	7,751	$37,813	$21,743
973	4" Chemical Line	6/30/2006	$53,714	$15,219	$38,495	7,751	$69,154	$49,560
974	6" Sludge Line	6/30/2006	$53,714	$15,219	$38,495	7,751	$69,154	$49,560
1025	Electrical - Bldg	6/30/2006	$40,096	$17,041	$23,055	7,751	$51,622	$29,682

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1034	Vent Degritted Prim Sludge	6/30/2006	$62,053	$17,582	$44,471	7,751	$79,890	$57,254
1056	16" Steel Pipe	6/30/2006	$65,955	$18,687	$47,268	7,751	$84,914	$60,855
1120	Plumbing	6/30/2006	$104,320	$22,168	$82,152	7,751	$134,306	$105,766
1155	9 Lab Sinks & 8 Eyewashes	6/30/2006	$56,152	$23,864	$32,287	7,751	$72,292	$41,568
1171	HVAC	6/30/2006	$58,139	$24,709	$33,430	7,751	$74,851	$43,039
1185	8" Secondary Dig Interim Pipe	6/30/2006	$51,822	$26,298	$25,524	7,751	$66,718	$32,861
1317	Interior Wall Treatments	6/30/2006	$111,811	$38,016	$73,796	7,751	$143,951	$95,008
1346	Storm Drain	6/30/2006	$189,508	$40,271	$149,238	7,751	$243,982	$192,136
1378	Permanent Structure	6/30/2006	$216,482	$46,003	$170,480	7,751	$278,709	$219,484
1391	Painting/Coating - Bldg	6/30/2006	$144,053	$48,978	$95,075	7,751	$185,460	$122,404
1518	6" Secondary Dig Interim Pipe	6/30/2006	$51,822	$51,822	$0	7,751	$66,718	$0
1613	Roof	6/30/2006	$621,104	$175,979	$445,124	7,751	$799,638	$573,074
1619	Excavation	6/30/2006	$863,489	$183,491	$679,997	7,751	$1,111,696	$875,460
1626	HVAC	6/30/2006	$458,585	$194,899	$263,686	7,751	$590,404	$339,482
1657	Electrical - Bldg	6/30/2006	$1,118,439	$237,668	$880,771	7,751	$1,439,931	$1,133,946
1703	Paving	6/30/2006	$1,050,610	$357,207	$693,403	7,751	$1,352,604	$892,719
1739	Foundation - Bldg	6/30/2006	$2,179,057	$463,050	$1,716,008	7,751	$2,805,420	$2,209,269
1799	Permanent Structure	6/30/2006	$4,952,740	$1,052,022	$3,900,718	7,751	$6,376,390	$5,021,967
275	Permanent Structure	6/30/2007	$20,528	$3,079	$17,449	7,966	$25,715	$21,858
281	Permanent Structure	6/30/2007	$21,321	$3,198	$18,123	7,966	$26,709	$22,703
367	Library Cabinets	6/30/2007	$12,205	$4,577	$7,628	7,966	$15,289	$9,556
618	Fire Suppression System	6/30/2007	$27,853	$8,356	$19,497	7,966	$34,891	$24,424
659	Permenent Structure	6/30/2007	$58,950	$8,843	$50,108	7,966	$73,847	$62,770
798	Roof Rehab - Prom Clarify1-4	6/30/2007	$39,659	$11,898	$27,761	7,966	$49,680	$34,776
891	Storm Drain	6/30/2007	$81,876	$15,352	$66,524	7,966	$102,565	$83,334
1063	HVAC Unit	6/30/2007	$63,582	$23,843	$39,739	7,966	$79,649	$49,781
1072	Storm Drain	6/30/2007	$130,012	$24,377	$105,635	7,966	$162,866	$132,329
1224	Electrical	6/30/2007	$94,976	$35,616	$59,360	7,966	$118,976	$74,360
1347	Roof Rehab - Prom Clarify 5-6	6/30/2007	$166,245	$49,874	$116,372	7,966	$208,255	$145,779
1624	Irvington PS Floor Replacement	6/30/2007	$623,194	$233,698	$389,497	7,966	$780,675	$487,922
1665	Electrical 480 Cable Replace	6/30/2007	$825,504	$309,564	$515,940	7,966	$1,034,108	$646,317
1669	Newark PS Floor Replacement	6/30/2007	$833,804	$312,676	$521,127	7,966	$1,044,505	$652,816
689	Control Bldg Stairs	6/30/2008	$61,831	$13,397	$48,434	8,310	$74,249	$58,162
99	Fire Panel	6/30/2009	$15,733	$5,769	$9,964	8,570	$18,320	$11,603
115	Electrical	6/30/2009	$28,283	$7,443	$20,841	8,570	$32,934	$24,267
214	Tractor Loader Training Area	6/30/2009	$36,510	$10,040	$26,470	8,570	$42,513	$30,822
398	Foundation, building	6/30/2009	$143,994	$19,799	$124,195	8,570	$167,668	$144,614
799	Painting/Coating	6/30/2009	$196,573	$51,845	$144,728	8,570	$228,892	$168,523
949	Permanent Structure	6/30/2009	$367,273	$77,268	$290,005	8,570	$427,656	$337,684
1151	Painting/Coating, Building	6/30/2009	$383,756	$105,533	$278,223	8,570	$446,849	$323,966
1169	Electrical, building	6/30/2009	$405,313	$111,461	$293,852	8,570	$471,951	$342,165
1396	Permanent Structure, Building	6/30/2009	$1,028,098	$226,182	$801,916	8,570	$1,197,128	$933,760
1945	BOILER CAMUS CONTROL BLDG	1/1/2010	$46,377	$13,913	$32,464	8,799	$52,596	$36,818

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1955	CS REMOTE STAGING TRAILER @IPS	1/1/2010	$173,603	$39,061	$134,543	8,799	$196,885	$152,586
1956	PERMANENT STRUCTURE	1/1/2010	$126,071	$27,902	$98,170	8,799	$142,978	$111,335
1957	PERMANENT STRUCTURE	1/1/2010	$17,038	$3,834	$13,205	8,799	$19,323	$14,975
1958	PERMANENT STRUCTUREQ	1/1/2010	$27,236	$6,128	$21,108	8,799	$30,889	$23,939
1959	PERMANENT STRUCTURE	1/1/2010	$17,038	$3,834	$13,205	8,799	$19,323	$14,975
1960	PERMANENT STRUCTURE	1/1/2010	$63,796	$14,354	$49,442	8,799	$72,352	$56,072
1961	ELECTRICAL	1/1/2010	$90,218	$20,299	$69,919	8,799	$102,316	$79,295
2046	SOLAR CARPORT	1/1/2011	$320,843	$37,368	$283,475	9,070	$352,998	$311,885
2047	ELECTRICAL - SOLAR CARPORT	1/1/2011	$30,379	$3,544	$26,835	9,070	$33,423	$29,524
2048	ELECTRICAL - SOLAR CARPORT	1/1/2011	$30,379	$3,544	$26,835	9,070	$33,423	$29,524
2049	ELECTRICAL - SOLAR CARPORT	1/1/2011	$30,379	$3,544	$26,835	9,070	$33,423	$29,524
2050	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2051	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2052	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2053	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2054	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2055	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2056	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2057	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2058	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2059	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2060	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2061	ELECTRIAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2062	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2063	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2064	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2065	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2066	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2067	ELECTRICAL - SOLAR CARPORT	1/1/2011	$33,178	$11,612	$21,565	9,070	$36,503	$23,727
2068	ELECTRICAL - SOLAR CARPORT	1/1/2011	$17,785	$2,075	$15,710	9,070	$19,567	$17,284
2069	ELECTRICAL - SOLAR CARPORT	1/1/2011	$17,785	$2,075	$15,710	9,070	$19,567	$17,284
2070	ELECTRICAL - SOLAR CARPORT	1/1/2011	$17,785	$2,075	$15,710	9,070	$19,567	$17,284
2071	ELECTRICAL - SOLAR CARPORT	1/1/2011	$17,785	$2,075	$15,710	9,070	$19,567	$17,284
2091	BUILDING	1/1/2011	$3,402,410	$238,169	$3,164,241	9,070	$3,743,401	$3,481,363
2112	FIRE ALARM CONTROL PANEL	1/1/2011	$76,157	$17,770	$58,387	9,070	$83,789	$64,238
2249	IRV PS CEMENT TREATED BASE	6/30/2012	$335,516	$41,940	$293,577	9,308	$359,703	$314,740
2289	CONTROL BUILDING	6/30/2012	$30,719	$2,560	$28,159	9,308	$32,934	$30,189
2316	PAINTING/COATING	1/1/2013	$212,537	$15,940	$196,597	9,547	$222,154	$205,493
2317	PERMANENTE STRUCTURE	1/1/2013	$560,397	$33,624	$526,773	9,547	$585,755	$550,610
2376	HVAC NOVAR UPGRADE TO NIAGARA WEB PF	1/1/2013	$29,950	$4,493	$25,458	9,547	$31,305	$26,609
2561	BOYCE ROAD LIFT STATION STRUCTURE	1/1/2014	$5,559,910	$55,599	$5,504,311	9,672	$5,736,388	$5,679,024
2573	SITE PAVEMENT	1/1/2014	$63,744	$1,594	$62,151	9,672	$65,768	$64,123
2583	SECURITY FENCE AND GATES	1/1/2014	$30,314	$758	$29,556	9,672	$31,276	$30,494

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
2631	PRIMARY CLARIFIER 5 & 6, SLUDGE PUMP RO	1/1/2014	$90,456	$1,508	$88,949	9,672	$93,327	$91,772
Subtotal Buildings			**$73,250,838**	**$31,381,163**	**$41,598,664**		**$136,250,540**	**$59,462,118**
COLLECTION SYSTEM								
1785	6 Inch Underground Lines 28408	1/8/1956	$326,463	$326,463	$0	692	$4,707,762	$0
1705	21 Inch Underground Lines 4761	1/7/1960	$149,330	$149,330	$0	824	$1,808,449	$0
1733	36 Inch Underground Lines 3496	1/7/1960	$186,704	$186,704	$0	824	$2,261,067	$0
1636	30 Inch Underground Lines 1833	1/6/1963	$93,499	$93,499	$0	901	$1,035,546	$0
1768	27 Inch Underground Lines 6233	1/6/1963	$280,811	$280,811	$0	901	$3,110,114	$0
1535	Risers 3051 Qty	1/6/1964	$47,876	$47,876	$0	936	$510,417	$0
1676	Other Underground Lines 3050 F	1/5/1965	$123,210	$121,978	$1,232	971	$1,266,233	$12,662
1761	33 Inch Underground Lines 4096	1/5/1966	$269,900	$261,803	$8,097	1,019	$2,643,113	$79,293
1787	15 Inch Underground Lines 1130	1/5/1966	$408,978	$396,709	$12,269	1,019	$4,005,095	$120,153
1893	8 Inch Underground Lines 31585	1/5/1966	$4,190,527	$4,064,812	$125,716	1,019	$41,037,559	$1,231,127
1800	Manholes 1464 Qty	1/5/1967	$507,572	$482,194	$25,379	1,074	$4,716,073	$235,804
1831	12 Inch Underground Lines 2388	1/5/1967	$712,817	$677,176	$35,641	1,074	$6,623,092	$331,155
1809	10 Inch Underground Lines 6379	1/5/1968	$495,816	$461,109	$34,707	1,155	$4,283,769	$299,864
1720	24 Inch Underground Lines 3224	1/4/1969	$202,718	$184,473	$18,245	1,269	$1,594,108	$143,470
1706	18 Inch Underground Lines 4032	1/3/1973	$204,426	$169,674	$34,752	1,895	$1,076,500	$183,005
1750	Improvements	1/1/1987	$205,651	$205,651	$0	4,406	$465,772	$0
1745	33 Inch Underground Lines 90 F	1/1/1988	$467,224	$247,629	$219,595	4,519	$1,031,739	$484,917
1798	Improvements	1/1/1988	$418,432	$418,432	$0	4,519	$923,995	$0
1726	D Street & Bodily Project TS-8	12/31/1989	$262,339	$214,244	$48,095	4,615	$567,255	$103,997
1827	Hickory Street Project	12/31/1989	$901,646	$736,344	$165,302	4,615	$1,949,626	$357,431
1564	Collection Improvements FYE 6/	12/31/1990	$84,585	$66,258	$18,327	4,732	$178,376	$38,648
1719	Transport System Master Plan F	12/31/1990	$264,220	$206,972	$57,248	4,732	$557,196	$120,726
1760	Fremont Blvd/Irv Dist Redevelo	12/31/1990	$628,607	$295,445	$333,162	4,732	$1,325,627	$702,583
1780	I-880 Sewer Replacement	12/31/1990	$851,864	$400,376	$451,488	4,732	$1,796,439	$952,113
1382	Fremont Blvd/Irvington	12/31/1991	$33,140	$24,855	$8,285	4,835	$68,398	$17,099
1690	Jarvis Ave Sewer	12/31/1991	$221,609	$166,207	$55,402	4,835	$457,381	$114,345
1769	Mowry Ave Project	12/31/1991	$460,231	$345,173	$115,058	4,835	$949,875	$237,469
1772	Mowry Ave Project	12/31/1991	$469,238	$351,929	$117,309	4,835	$968,465	$242,116
1804	Collection System Master Plan	12/31/1991	$762,844	$572,133	$190,711	4,835	$1,574,441	$393,610
1812	Central Avenue C.M.	12/31/1991	$815,198	$611,399	$203,799	4,835	$1,682,494	$420,624
1848	Central Ave Design/CM	12/31/1991	$1,647,703	$1,235,777	$411,926	4,835	$3,400,709	$850,177
1442	Central Ave SS (Wrap up)	12/31/1992	$41,485	$29,731	$11,754	4,985	$83,045	$23,529
1450	Hickory Street Litigation	12/31/1992	$42,913	$30,754	$12,159	4,985	$85,903	$24,339
1602	Logan High School	12/31/1992	$121,012	$86,725	$34,287	4,985	$242,242	$68,635
1778	I-880 Sewer Replacement	12/31/1992	$560,784	$401,895	$158,889	4,985	$1,122,580	$318,064
1826	Wells Avenue	12/31/1992	$1,024,117	$733,951	$290,167	4,985	$2,050,083	$580,857
1832	Thornton Avenue Sewer Replacem	12/31/1992	$1,212,096	$868,669	$343,427	4,985	$2,426,380	$687,474
1834	Everglades Sewer	12/31/1992	$1,232,388	$883,211	$349,177	4,985	$2,467,001	$698,984
1853	Mowry Ave D&C	12/31/1992	$1,933,948	$1,385,996	$547,952	4,985	$3,871,388	$1,096,893

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1854	Mowry Ave. Design Phase 2	12/31/1992	$1,933,948	$1,385,996	$547,952	4,985	$3,871,388	$1,096,893
1191	Alvarado P.S. Elec Valve OP	12/31/1993	$21,182	$14,474	$6,708	5,210	$40,571	$12,847
1437	Central Ave SS	12/31/1993	$43,558	$29,765	$13,793	5,210	$83,429	$26,419
1591	Carmen Street San Sewer Replac	12/31/1993	$123,238	$84,213	$39,025	5,210	$236,045	$74,747
1709	El Camino/Santa Barbara	12/31/1993	$294,600	$201,310	$93,290	5,210	$564,264	$178,683
1103	Fremont & Eggers Sewer Repair	12/31/1994	$18,377	$11,945	$6,432	5,408	$33,910	$11,868
1247	Driscoll Blvd/P.Padre Rehab	12/31/1994	$26,115	$16,975	$9,140	5,408	$48,188	$16,866
1316	Mission Blvd/I-680	12/31/1994	$32,368	$21,039	$11,329	5,408	$59,726	$20,904
1529	Mission & Old Canyon	12/31/1994	$84,222	$54,744	$29,478	5,408	$155,409	$54,393
1754	Parkson Aeration Panel Pilot	12/31/1994	$443,652	$288,374	$155,278	5,408	$818,640	$286,524
1816	N/I Pump Station Improvements	12/31/1994	$526,695	$526,695	$0	5,408	$971,873	$0
1817	Osgood-Warm Springs Sewer	12/31/1994	$1,071,041	$696,177	$374,864	5,408	$1,976,316	$691,711
977	Hetch Hetchy (Phase 2)	12/31/1995	$14,051	$8,665	$5,386	5,471	$25,629	$9,824
1480	Kato Road Sewer	12/31/1995	$63,438	$39,120	$24,318	5,471	$115,710	$44,355
1699	Peachtree Ave Corridor Sewer	12/31/1995	$320,501	$197,642	$122,859	5,471	$584,588	$224,092
1738	Peachtree Ave. Corridor Study	12/31/1995	$422,491	$260,536	$161,955	5,471	$770,616	$295,403
1820	Willow St. Corridor Sewer Reha	12/31/1995	$1,172,149	$722,825	$449,324	5,471	$2,137,977	$819,558
1841	Dairy Ave Corridor Replacement	12/31/1995	$1,859,510	$1,146,698	$712,812	5,471	$3,391,711	$1,300,156
1855	Pump Station Ventilation Impro	12/31/1995	$2,393,445	$1,475,958	$917,487	5,471	$4,365,598	$1,673,479
1857	Newark Subbasin	12/31/1995	$2,541,937	$1,567,528	$974,409	5,471	$4,636,445	$1,777,304
1888	Newark Subbasin (S&S)	12/31/1995	$7,121,272	$4,391,451	$2,729,821	5,471	$12,989,065	$4,979,142
1179	Dairy Ave Corridor Replacement	12/31/1996	$25,110	$14,648	$10,463	5,620	$44,586	$18,577
1531	Olive Avenue Sewer Replacement	12/31/1996	$98,578	$57,504	$41,074	5,620	$175,037	$72,932
1633	Smith & New Haven	12/31/1996	$203,033	$118,436	$84,597	5,620	$360,510	$150,212
1758	Whipple Road	12/31/1996	$550,000	$320,833	$229,167	5,620	$976,593	$406,914
1807	Newark Subbasin (S&S)	12/31/1996	$1,097,734	$640,345	$457,389	5,620	$1,949,161	$812,151
1808	Mission & Old Canyon	12/31/1996	$1,119,637	$653,122	$466,515	5,620	$1,988,053	$828,355
1885	Peralta Corridor Sewer	12/31/1996	$5,849,825	$3,412,398	$2,437,427	5,620	$10,387,083	$4,327,951
1789	Alvarado Effluent P.S. Improve	12/31/1997	$963,752	$530,064	$433,688	5,826	$1,650,752	$742,838
1818	Jarvis Avenue Sewer Replacemen	12/31/1997	$1,355,276	$745,402	$609,874	5,826	$2,321,370	$1,044,616
1822	Central/Blacow Sewer Replaceme	12/31/1997	$1,390,733	$764,903	$625,830	5,826	$2,382,102	$1,071,946
1845	Lower Warren Avenue Sewer Proj	12/31/1997	$2,349,781	$1,292,380	$1,057,401	5,826	$4,024,797	$1,811,158
911	Jarvis Avenue Sewer Replace PR	12/31/1998	$15,135	$7,820	$7,315	5,920	$25,512	$12,331
1398	Carmen Street Phase 2 PROJ 28-	12/31/1998	$59,113	$30,542	$28,571	5,920	$99,643	$48,161
1489	Collect. Sys. Grit Handling PR	12/31/1998	$86,999	$44,950	$42,049	5,920	$146,649	$70,880
1512	Thornton/Peralta Corr Sewer Re	12/31/1998	$100,366	$51,856	$48,510	5,920	$169,181	$81,771
1547	Peachtree Corridor Reach B PRO	12/31/1998	$129,650	$66,986	$62,664	5,920	$218,543	$105,629
1837	I-Street Corridor Sewer Replac	12/31/1998	$2,260,892	$1,168,128	$1,092,764	5,920	$3,811,054	$1,842,010
1842	Newark Subbasin (inc Baine) PR	12/31/1998	$2,442,141	$1,261,773	$1,180,368	5,920	$4,116,575	$1,989,678
1217	Pine Street Sanitary Sewer Pro	12/31/1999	$36,929	$17,849	$19,080	6,059	$60,821	$31,424
1795	Thornton Ave - Fremont to I-88	12/31/1999	$1,272,490	$615,037	$657,453	6,059	$2,095,754	$1,082,806
1872	Upper Fremont Blvd Sewer Proj	12/31/1999	$5,309,141	$2,566,085	$2,743,056	6,059	$8,744,003	$4,517,735
1589	Sabercat Easement Proj 28-103	12/31/2000	$222,294	$100,032	$122,262	6,221	$356,578	$196,118

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1753	Perry Rd Corridow Sewer Proj 5	12/31/2000	$753,507	$339,078	$414,429	6,221	$1,208,687	$664,778
1858	Upper Warren Ave Sewer Proj 28	12/31/2000	$4,154,835	$1,869,676	$2,285,159	6,221	$6,664,700	$3,665,585
1883	Stevenson Blvd Sanitary Sewer	12/31/2000	$8,541,517	$3,843,682	$4,697,834	6,221	$13,701,301	$7,535,715
1637	Newark Old Town Street Improve	12/31/2001	$348,429	$145,179	$203,250	6,343	$548,159	$319,760
1859	Newark Subbasin Upper Relief P	12/31/2001	$4,745,053	$1,977,105	$2,767,947	6,343	$7,465,061	$4,354,619
414	Chadbourne Swr Repair 21Ft of	12/31/2002	$11,394	$3,276	$8,118	6,538	$17,391	$12,391
1095	Hunter Easement Access Road Pr	12/31/2002	$26,613	$15,302	$11,310	6,538	$40,619	$17,263
1097	Newark Subbasin Upper Relief P	12/31/2002	$40,000	$15,333	$24,667	6,538	$61,052	$37,649
1098	Mission Crk Swr Relocation Pro	12/31/2002	$53,351	$15,338	$38,013	6,538	$81,430	$58,019
1323	Perrin Ave Access Proj 156	12/31/2002	$49,146	$28,259	$20,887	6,538	$75,012	$31,880
1414	Stevenson Blvd Imp Proj 127	12/31/2002	$96,346	$36,933	$59,414	6,538	$147,054	$90,683
1449	Hetch Hetchy Proj 31	12/31/2002	$108,395	$41,551	$66,844	6,538	$165,444	$102,024
1532	Frem/Peralta/Mattos Swr Liner	12/31/2002	$189,651	$72,700	$116,951	6,538	$289,466	$178,504
1852	Mowry Corridor Phase III Proj	12/31/2002	$4,784,742	$1,834,151	$2,950,591	6,538	$7,302,988	$4,503,510
1415	Proj 182 Maiden Lane Swr	6/30/2004	$189,909	$39,881	$150,028	7,115	$266,353	$210,419
1622	Proj 159 Canyon Hgts Swr Repla	6/30/2004	$699,569	$146,910	$552,660	7,115	$981,167	$775,122
486	Manholes	6/30/2005	$19,292	$4,582	$14,710	7,446	$25,855	$19,714
1038	18" Pipe Casing	6/30/2005	$64,960	$15,428	$49,532	7,446	$87,058	$66,382
1087	30" Pipe Casing	6/30/2005	$75,500	$17,931	$57,569	7,446	$101,184	$77,153
1306	Man Holes, Trunk	6/30/2005	$168,309	$31,979	$136,330	7,446	$225,565	$182,707
1461	Junction Structures	6/30/2005	$282,533	$54,224	$228,310	7,446	$378,646	$305,977
1548	10" Pipe	6/30/2005	$403,908	$95,928	$307,980	7,446	$541,310	$412,749
1568	Proj 171 Access Rd Sentinel Pl	6/30/2005	$241,689	$114,802	$126,887	7,446	$323,908	$170,052
1625	Proj 158 Wshngtn/Osgood Reloca	6/30/2005	$704,770	$167,383	$537,387	7,446	$944,521	$720,197
1840	Pipe, Polycrete 1000MM	6/30/2005	$9,272,774	$1,761,827	$7,510,947	7,446	$12,427,211	$10,066,041
201	Standard Drop Manhole	6/30/2006	$12,046	$2,048	$9,998	7,751	$15,509	$12,872
347	Manholes	6/30/2006	$19,886	$3,381	$16,505	7,751	$25,602	$21,250
385	Trunk Drop Manholes	6/30/2006	$24,093	$4,096	$19,997	7,751	$31,018	$25,745
948	Manhole Concrete Pads	6/30/2006	$84,324	$14,335	$69,989	7,751	$108,563	$90,107
963	10"PVC Pipe	6/30/2006	$87,078	$14,803	$72,274	7,751	$112,108	$93,049
1004	Standard Manholes	6/30/2006	$48,185	$16,383	$31,802	7,751	$62,036	$40,944
1015	12" PVC Pipe Guide Boring	6/30/2006	$97,966	$16,654	$81,312	7,751	$126,126	$104,685
1146	12" PVC Pipe	6/30/2006	$134,825	$22,920	$111,905	7,751	$173,580	$144,071
1221	Trunk Manholes	6/30/2006	$168,648	$28,670	$139,978	7,751	$217,126	$180,214
1433	24" Polycrete Pipe Concret Cap	6/30/2006	$320,291	$54,449	$265,841	7,751	$412,358	$342,257
1498	12" PVC Pipe Steel Caseing	6/30/2006	$451,033	$76,676	$374,357	7,751	$580,680	$481,965
1524	24" Polycrete Pipe	6/30/2006	$542,866	$92,287	$450,579	7,751	$698,911	$580,096
1659	24" Polycrete Pipe Steel Case	6/30/2006	$1,401,952	$238,332	$1,163,620	7,751	$1,804,938	$1,498,099
1661	18" Polycrete Pipe Steel Case	6/30/2006	$1,410,130	$239,722	$1,170,408	7,751	$1,815,467	$1,506,838
1810	24" Polycrete Pipe	6/30/2006	$6,724,840	$1,143,223	$5,581,617	7,751	$8,657,873	$7,186,035
481	Pipe Line 10in	6/30/2007	$17,279	$6,480	$10,799	7,966	$21,645	$13,528
682	Pipe Line 8in	6/30/2007	$24,525	$9,197	$15,328	7,966	$30,722	$19,201
991	Pipe, 8in,cured in plc 3858LF	6/30/2007	$131,057	$19,659	$111,399	7,966	$164,175	$139,549

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
551	Concrete Cap - Paseo Padre	6/30/2008	$82,600	$10,738	$71,862	8,310	$99,190	$86,295
6	10"SDR35 PVC Pipe in Concr20ft	6/30/2009	$10,000	$1,375	$8,625	8,570	$11,644	$10,043
25	8" PVC Pipe 31ft	6/30/2009	$41,141	$3,017	$38,124	8,570	$47,904	$44,392
29	Manhole Dropped Qty2	6/30/2009	$28,816	$3,170	$25,646	8,570	$33,553	$29,862
196	Rehab MN S14017	6/30/2009	$16,101	$8,856	$7,245	8,570	$18,748	$8,437
244	Coupling Epoxy Coat Steel Enca	6/30/2009	$94,213	$10,363	$83,850	8,570	$109,703	$97,635
355	Rehab MN S14014	6/30/2009	$29,603	$16,282	$13,321	8,570	$34,470	$15,511
356	Rehab MN S14020	6/30/2009	$29,603	$16,282	$13,321	8,570	$34,470	$15,511
357	Rehab MN S14021	6/30/2009	$29,603	$16,282	$13,321	8,570	$34,470	$15,511
358	Rehab MN S14026	6/30/2009	$29,603	$16,282	$13,321	8,570	$34,470	$15,511
359	Rehab MN S14029	6/30/2009	$29,603	$16,282	$13,321	8,570	$34,470	$15,511
364	Coupling, St Steel Encapsulati	6/30/2009	$150,991	$16,609	$134,382	8,570	$175,816	$156,476
365	Rehab MN S14019	6/30/2009	$30,278	$16,653	$13,625	8,570	$35,256	$15,865
395	33" Sewer Line Rehab 745 Ft	6/30/2009	$178,075	$19,588	$158,487	8,570	$207,352	$184,544
927	36"Sewer Line Rehab 3474 Ft	6/30/2009	$558,682	$61,455	$497,227	8,570	$650,535	$578,976
981	8" Pipe 1170 ft	6/30/2009	$636,506	$70,016	$566,490	8,570	$741,154	$659,627
1070	27" Sewer Line Rehab 2306Ft	6/30/2009	$800,771	$88,085	$712,686	8,570	$932,427	$829,860
1231	33"Sewer Line Rehab 7494 Ft	6/30/2009	$1,205,170	$132,569	$1,072,602	8,570	$1,403,313	$1,248,949
1244	30" Sewer Line Rehab 3235 Ft	6/30/2009	$1,250,629	$137,569	$1,113,060	8,570	$1,456,246	$1,296,059
1947	MANHOLES	1/1/2010	$224,172	$20,175	$203,996	8,799	$254,235	$231,353
1948	MANHOLES	1/1/2010	$35,009	$3,151	$31,858	8,799	$39,704	$36,130
1949	MANHOLES	1/1/2010	$207,593	$37,367	$170,226	8,799	$235,433	$193,055
1950	MANHOLES	1/1/2010	$45,344	$4,081	$41,263	8,799	$51,424	$46,796
1951	MANHOLES	1/1/2010	$51,915	$4,672	$47,243	8,799	$58,877	$53,578
1952	MANHOLES	1/1/2010	$15,876	$1,429	$14,447	8,799	$18,005	$16,384
1953	MANHOLES	1/1/2010	$20,143	$1,813	$18,330	8,799	$22,845	$20,789
1976	CIPP LINER 27 " 7000 LF	1/1/2010	$1,776,542	$158,365	$1,618,177	8,799	$2,014,787	$1,835,185
1977	CIPP LINER 30" 1184 LF	1/1/2010	$289,100	$25,771	$263,329	8,799	$327,871	$298,644
2076	PIPE, 12" 16LF	1/1/2011	$28,174	$1,405	$26,769	9,070	$30,998	$29,452
2077	PIPE, 8" 769 LF	1/1/2011	$350,130	$17,459	$332,671	9,070	$385,220	$366,011
2078	LATERAL CONNECTION	1/1/2011	$11,890	$593	$11,297	9,070	$13,082	$12,430
2079	PIPE, 10" 17 LF	1/1/2011	$44,152	$2,202	$41,950	9,070	$48,577	$46,155
2080	MANHOLE	1/1/2011	$11,890	$832	$11,058	9,070	$13,082	$12,166
2081	CIPP LINER 6" 33 LF	1/1/2011	$17,650	$1,235	$16,414	9,070	$19,418	$18,059
2082	CIPP LINER 8" 784 LF	1/1/2011	$142,414	$9,969	$132,445	9,070	$156,687	$145,719
2083	CIPP LINER 12" 341 LF	1/1/2011	$36,516	$2,556	$33,960	9,070	$40,176	$37,364
2084	CIPP LINER 14" 885 LF	1/1/2011	$38,951	$2,727	$36,224	9,070	$42,855	$39,855
2085	CIPP LINER 15" 216 LF	1/1/2011	$18,258	$1,278	$16,980	9,070	$20,088	$18,682
2086	LATERAL SEALING SYSTEMS	1/1/2011	$23,127	$1,619	$21,508	9,070	$25,445	$23,664
2214	PIPE 6" 36LF	1/1/2011	$70,865	$3,465	$67,400	9,070	$77,967	$74,155
2215	PIPE 8" 50 LF	1/1/2011	$106,582	$5,212	$101,371	9,070	$117,264	$111,530
2216	LATERAL, 1 QTY	1/1/2011	$13,358	$653	$12,704	9,070	$14,696	$13,978
2217	PIPE 10" CIPP REHAB	1/1/2011	$151,303	$10,591	$140,711	9,070	$166,466	$154,814

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2218	PIPE 10" OPEN CUT	1/1/2011	$394,675	$20,101	$374,573	9,070	$434,229	$412,113
2219	PIPE 8" OPEN CUT	1/1/2011	$17,793	$830	$16,963	9,070	$19,577	$18,663
2220	PIPE 6" OPEN CUT	1/1/2011	$14,633	$683	$13,950	9,070	$16,099	$15,348
2221	MANHOLE	1/1/2011	$40,972	$2,868	$38,104	9,070	$45,078	$41,922
2222	MANHOLE, DROP	1/1/2011	$33,168	$2,322	$30,846	9,070	$36,492	$33,937
2253	8" PIPE 1035 LF	6/30/2012	$92,376	$4,619	$87,757	9,308	$99,035	$94,083
2254	10"PIPE 81 LF	6/30/2012	$73,900	$3,695	$70,205	9,308	$79,227	$75,266
2256	8" CIPP LINER 260 LF	6/30/2012	$105,452	$5,273	$100,179	9,308	$113,054	$107,401
2257	10" CIPP LINER 119 LF	6/30/2012	$46,818	$2,341	$44,477	9,308	$50,193	$47,683
2258	12" CIPP LINER 335 LF	6/30/2012	$44,815	$2,241	$42,574	9,308	$48,046	$45,643
2259	15" CIPP LINER 127 LF	6/30/2012	$32,024	$1,601	$30,423	9,308	$34,332	$32,616
2260	8" PVC PIPE 475 LF	6/30/2012	$224,653	$7,470	$217,184	9,308	$240,848	$232,840
2261	12" PVC PIPE 68 LF	6/30/2012	$44,372	$1,479	$42,893	9,308	$47,571	$45,985
2262	MANHOLE STANDARD 1 QTY	6/30/2012	$18,031	$902	$17,129	9,308	$19,331	$18,364
2263	MANHOLE DROP 1 QTY	6/30/2012	$26,866	$1,343	$25,523	9,308	$28,803	$27,363
2264	LATERAL CONNECTIONS 2 QTY	6/30/2012	$20,371	$679	$19,692	9,308	$21,839	$21,111
2302	18" PVC PIPE OPEN CUT	6/30/2012	$259,232	$8,641	$250,591	9,308	$277,920	$268,656
2303	MANHOLE TRUNK OUTSIDE DROP	6/30/2012	$14,847	$742	$14,104	9,308	$15,917	$15,121
2320	8" PVC PIPE, 19 FT	1/1/2013	$20,156	$336	$19,820	9,547	$21,068	$20,717
2321	MANHOLES, 6 QTY	1/1/2013	$254,634	$7,639	$246,995	9,547	$266,156	$258,171
2377	6" PIPE VCP 516 LF	1/1/2013	$201,943	$4,207	$197,736	9,547	$211,081	$206,683
2378	8' PIPE VCP 7630 LF	1/1/2013	$415,853	$8,314	$407,538	9,547	$434,670	$425,979
2379	10" PIPE VCP 41 LF	1/1/2013	$33,045	$688	$32,357	9,547	$34,541	$33,821
2380	12' PIPE VCP 16 LF	1/1/2013	$14,858	$297	$14,560	9,547	$15,530	$15,219
2381	21" PIPE VCP 40 LF	1/1/2013	$63,917	$1,278	$62,639	9,547	$66,809	$65,473
2382	LATERAL CONNECTION 2 QTY	1/1/2013	$23,020	$460	$22,559	9,547	$24,061	$23,580
2528	6" PIPE LINING, 36 LF	1/1/2014	$34,937	$349	$34,588	9,672	$36,046	$35,686
2529	8" PIPE LINING, 796 LF	1/1/2014	$314,815	$3,148	$311,667	9,672	$324,808	$321,560
2530	10" PIPE LINING, 173 LF	1/1/2014	$16,016	$160	$15,856	9,672	$16,524	$16,359
2531	12" PIPE LINING, 924 LF	1/1/2014	$100,266	$1,003	$99,263	9,672	$103,448	$102,414
2550	8" PIPE, 654 LF	1/1/2014	$148,623	$1,486	$147,136	9,672	$153,340	$151,807
2551	10" PIPE, 907 LF	1/1/2014	$159,725	$1,597	$158,128	9,672	$164,795	$163,147
2552	12" PIPE, 907 LF	1/1/2014	$114,405	$1,144	$113,261	9,672	$118,037	$116,856
2553	FORCE MAIN, 30" HAYWARD MARSH	1/1/2014	$122,818	$2,047	$120,771	9,672	$126,717	$124,605
2554	12" SEWER IN 48"STEEL, TBM PIPE JACKING	1/1/2014	$2,214,163	$15,815	$2,198,348	9,672	$2,284,443	$2,268,126
2555	MANHOLE, STANDARD, 1 QTY	1/1/2014	$21,313	$213	$21,100	9,672	$21,990	$21,770
2556	MANHOLE, DROP, 1 QTY	1/1/2014	$99,462	$995	$98,468	9,672	$102,619	$101,593
2559	6" PIPE, PVC 2032 LF	1/1/2014	$551,266	$5,513	$545,753	9,672	$568,763	$563,076
2560	MANHOLES, STANDARD, 7 QTY	1/1/2014	$71,726	$717	$71,009	9,672	$74,003	$73,263
Subtotal Collection System			**$133,522,435**	**$61,844,665**	**$71,677,770**		**$281,123,774**	**$108,916,472**
COMPUTER								
1611	Records Mgmt - NECB	12/31/1996	$69,345	$69,345	$0	5,620	$123,131	$0

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1662	Records Mgmt - NECB	12/31/1997	$98,773	$98,773	$0	5,826	$169,182	$0
1673	Records Mgmt - NECB	12/31/1998	$107,272	$107,272	$0	5,920	$180,822	$0
1616	Records Mgmt - NECB	12/31/1999	$74,409	$74,409	$0	6,059	$122,549	$0
1500	Software Veritas Net Back Up	12/31/2002	$45,680	$45,680	$0	6,538	$69,722	$0
1418	Microsoft SW Assurance Ser Lic	1/28/2004	$21,264	$21,264	$0	7,115	$29,823	$0
1553	GIS Software	6/30/2005	$53,044	$53,044	$0	7,446	$71,089	$0
1843	Proj 36 GIS	6/30/2005	$1,191,387	$1,191,387	$0	7,446	$1,596,676	$0
1510	FLexidata Software System	6/30/2006	$49,332	$49,332	$0	7,751	$63,512	$0
1511	SCADA-Hansen Interface	6/30/2006	$35,000	$35,000	$0	7,751	$45,061	$0
1071	USD-SQL1 Dell 2900 Server	4/1/2007	$0	$0	$0	7,966	$0	$0
958	Readkey Pro Security System	6/30/2008	$33,382	$30,998	$2,384	8,310	$40,087	$2,863
296	Datalogger UPS	6/30/2009	$15,717	$12,349	$3,368	8,570	$18,301	$3,922
348	Poweredge 2950 USD NMS3	6/30/2009	$11,192	$11,192	$0	8,570	$13,032	$0
389	Dell ESX Server 2950	6/30/2009	$0	$0	$0	8,570	$0	$0
542	KnowledgeLake Software	6/30/2009	$24,364	$24,364	$0	8,570	$28,370	$0
817	K2 Workflow Software	6/30/2009	$41,125	$41,125	$0	8,570	$47,886	$0
1373	SharePoint Sofware & Serv	6/30/2009	$228,538	$172,620	$55,918	8,570	$266,112	$65,112
1501	Plant GIS Database Schema&data	6/30/2009	$601,573	$479,660	$121,913	8,570	$700,479	$141,957
1917	EMC CX4-120 SAN	1/1/2010	$187,283	$124,776	$62,507	8,799	$212,399	$70,890
1936	DELL POWEREDGE R710 USD-DC	1/1/2010	$11,261	$11,261	$0	8,799	$12,771	$0
1939	PERMIT TRACKING SYSTEM SOFTWARE	1/1/2010	$153,932	$98,329	$55,603	8,799	$174,575	$63,059
1940	USD-NET SERVER	1/1/2010	$0	$0	$0	8,799	$0	$0
1998	APC SYMMETRA PX SERVER ROOM UPS	1/1/2011	$77,080	$26,978	$50,102	9,070	$84,805	$55,123
1999	CCTV SYSTEM	1/1/2011	$69,600	$41,283	$28,317	9,070	$76,575	$31,155
2000	LTOS TAPES (160)	1/1/2011	$19,717	$13,802	$5,915	9,070	$21,693	$6,508
2001	QUANTUM SUPERLOADER 3	1/1/2011	$10,464	$7,325	$3,139	9,070	$11,512	$3,454
2002	QUANTUM SUPERLOADER 3	1/1/2011	$10,464	$7,325	$3,139	9,070	$11,512	$3,454
2005	COPIER, XEROX WORK CENTRE 5755 T&D	1/1/2011	$11,808	$8,266	$3,542	9,070	$12,991	$3,897
2006	COPIER, XEROX WORK CENTRE 5755 CS	1/1/2011	$11,808	$8,266	$3,542	9,070	$12,991	$3,897
2007	COPIER, XEROX WORK CENTRE 5765	1/1/2011	$12,344	$8,641	$3,703	9,070	$13,581	$4,074
2020	USD-SQLE DELL SERVER	1/1/2011	$13,581	$11,883	$1,698	9,070	$14,942	$1,868
2025	OPTIMUM HR SOFTWARE SYSTEM	1/1/2011	$31,347	$15,673	$15,673	9,070	$34,488	$17,244
2026	USD-ESX4	1/1/2011	$25,000	$21,875	$3,125	9,070	$27,506	$3,438
2027	EDEN FINANCIAL SOFTWARE SYSTEM	1/1/2011	$405,253	$202,401	$202,851	9,070	$445,867	$223,181
2028	DATA DOMAIN STORAGE DEVICE	1/1/2011	$49,248	$43,092	$6,156	9,070	$54,183	$6,773
2029	USD-VM-DR1 DELL DR SERVER	1/1/2011	$41,040	$35,910	$5,130	9,070	$45,153	$5,644
2030	DELL DR SCADA SERVER	1/1/2011	$24,624	$21,546	$3,078	9,070	$27,092	$3,386
2043	CATAPULT MENU SOFTWARE	1/1/2011	$13,505	$9,454	$4,052	9,070	$14,858	$4,458
2044	SCADA SYSTEM UPGRADE	1/1/2011	$43,623	$30,536	$13,087	9,070	$47,995	$14,398
2074	HBS TIME RECORDING SOFTWARE	1/1/2011	$217,043	$107,879	$109,164	9,070	$238,795	$120,105
2235	HP DESIGN JET T2300 PLOTTER/SCANNER	6/30/2012	$13,085	$6,543	$6,543	9,308	$14,028	$7,014
2248	ADMIN BLDG WAN ROUTER	6/30/2012	$10,327	$6,455	$3,873	9,308	$11,072	$4,152
2251	NPS CONDUIT AND CABLE	6/30/2012	$12,950	$2,158	$10,792	9,308	$13,884	$11,570

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2252	NPS ALVARADO BACK UP COMM	6/30/2012	$37,304	$9,326	$27,978	9,308	$39,993	$29,995
2311	VMWARE ESX 3	1/1/2013	$13,536	$5,076	$8,460	9,547	$14,148	$8,843
2312	VMWARE ESX 4	1/1/2013	$13,536	$5,076	$8,460	9,547	$14,148	$8,843
2313	QUANTUM HD BACKUP TARGET	1/1/2013	37,639	14,115	23,525	9,547	$39,343	$24,589
Subtotal Computer			**$4,279,794**	**$3,423,058**	**$856,737**		**$5,328,732**	**$954,866**
CONTRIB-CS								
1880	6 inch Underground Lines 17508	1/8/1956	$2,157,203	$2,157,203	$0	692	$31,107,990	$0
1846	21 inch Underground Lines 2934	1/7/1960	$928,362	$928,362	$0	824	$11,242,869	$0
1856	36 inch Underground Lines 2154	1/7/1960	$1,150,715	$1,150,715	$0	824	$13,935,661	$0
1823	30 inch Underground Lines 1129	1/6/1963	$576,264	$576,264	$0	901	$6,382,396	$0
1871	27 inch Underground Lines 3841	1/6/1963	$1,730,732	$1,730,732	$0	901	$19,168,673	$0
1770	Risers 18801 Qty	1/6/1964	$295,703	$295,703	$0	936	$3,152,586	$0
1833	Other Underground Lines 18797	1/5/1965	$759,385	$751,791	$7,594	971	$7,804,225	$78,042
1866	33 inch Underground Lines 2515	1/5/1966	$1,657,490	$1,607,765	$49,725	1,019	$16,231,691	$486,951
1881	15 inch Underground Lines 6967	1/5/1966	$2,520,665	$2,445,045	$75,620	1,019	$24,684,707	$740,541
1902	8 inch Underground Lines 19462	1/5/1966	$51,112,744	$49,579,362	$1,533,382	1,019	$500,543,741	$15,016,312
1889	Manholes 9000 Qty	1/5/1967	$3,789,847	$3,600,355	$189,492	1,074	$35,213,116	$1,760,656
1894	12 inch Underground Lines 1471	1/5/1967	$3,757,100	$3,569,245	$187,855	1,074	$34,908,842	$1,745,442
1898	10 inch Underground Lines 3931	1/5/1968	$6,607,196	$6,144,692	$462,504	1,155	$57,085,031	$3,995,952
1849	24 inch Underground Lines 1987	1/4/1969	$1,249,415	$1,136,968	$112,447	1,269	$9,824,990	$884,249
1860	18 inch Underground Lines 2208	1/3/1973	$1,718,863	$1,426,656	$292,207	1,895	$9,051,469	$1,538,750
940	Risers 19 Qty	1/1/1987	$12,837	$7,060	$5,777	4,406	$29,074	$13,083
1629	12 inch Underground Lines 1221	1/1/1987	$179,792	$98,886	$80,906	4,406	$407,205	$183,242
1748	Manholes 224 Qty	1/1/1987	$454,530	$249,992	$204,539	4,406	$1,029,450	$463,252
1836	10 inch Underground Lines 1179	1/1/1987	$1,689,777	$929,377	$760,400	4,406	$3,827,119	$1,722,203
1892	8 inch Underground Lines 59301	1/1/1987	$7,955,045	$4,375,275	$3,579,770	4,406	$18,017,112	$8,107,700
889	6 inch Underground Lines 88 F	1/1/1988	$11,802	$6,255	$5,547	4,519	$26,062	$12,249
1047	Risers 17 Qty	1/1/1988	$17,459	$9,253	$8,206	4,519	$38,554	$18,120
1660	18 inch Underground Lines 1295	1/1/1988	$228,350	$121,026	$107,325	4,519	$504,250	$236,997
1667	15 inch Underground Lines 1474	1/1/1988	$241,058	$127,761	$113,297	4,519	$532,312	$250,187
1755	12 inch Underground Lines 3353	1/1/1988	$513,478	$272,143	$241,335	4,519	$1,133,879	$532,923
1774	Manholes 313 Qty	1/1/1988	$660,529	$350,080	$310,449	4,519	$1,458,601	$685,543
1844	10 inch Underground Lines 1401	1/1/1988	$2,088,402	$1,106,853	$981,549	4,519	$4,611,676	$2,167,488
1895	8 inch Underground Lines 74719	1/1/1988	$10,576,025	$5,605,293	$4,970,732	4,519	$23,354,316	$10,976,528
954	Risers 14 Qty	12/31/1988	$14,601	$7,447	$7,154	4,519	$32,242	$15,799
1715	12 inch Underground Lines 2512	12/31/1988	$390,643	$199,228	$191,415	4,519	$862,630	$422,689
1723	Manholes 189 Qty	12/31/1988	$400,738	$204,376	$196,362	4,519	$884,923	$433,612
1728	10 inch Underground Lines 2800	12/31/1988	$423,602	$216,037	$207,565	4,519	$935,411	$458,352
1887	8 inch Underground Lines 43237	12/31/1988	$7,311,379	$3,728,803	$3,582,576	4,519	$16,145,220	$7,911,158
950	Risers 14 Qty	12/31/1989	$15,279	$7,487	$7,792	4,615	$33,038	$16,849
1503	10 inch Underground Lines 533	12/31/1989	$84,385	$41,349	$43,036	4,615	$182,465	$93,057
1570	12 inch Underground Lines 864	12/31/1989	$140,608	$68,898	$71,710	4,615	$304,036	$155,058

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
1711	Manholes 175 Qty	12/31/1989	$392,458	$192,304	$200,154	4,615	$848,611	$432,791
1882	8 inch Underground Lines 39047	12/31/1989	$5,873,361	$2,877,947	$2,995,414	4,615	$12,699,950	$6,476,975
1628	10 inch Underground Lines 1336	12/31/1990	$218,473	$102,682	$115,791	4,732	$460,723	$244,183
1640	Manholes 105 Qty	12/31/1990	$243,221	$114,314	$128,907	4,732	$512,913	$271,844
1870	8 inch Underground Lines 27550	12/31/1990	$4,280,324	$2,011,752	$2,268,572	4,732	$9,026,491	$4,784,040
1573	Manholes 68 Qty	12/31/1991	$157,514	$70,881	$86,633	4,835	$325,095	$178,802
1765	10 inch Underground Lines 4420	12/31/1991	$722,793	$325,257	$397,536	4,835	$1,491,779	$820,478
1830	8 inch Underground Lines 11371	12/31/1991	$1,766,663	$794,998	$971,665	4,835	$3,646,232	$2,005,427
1438	Manholes 28 Qty	12/31/1992	$68,408	$29,415	$38,993	4,985	$136,940	$78,056
1701	8 inch Underground Lines 2695	12/31/1992	$441,626	$189,899	$251,727	4,985	$884,049	$503,908
1445	Manholes 30 Qty	12/31/1993	$74,437	$30,519	$43,918	5,210	$142,573	$84,118
1815	8 inch Underground Lines 9832	12/31/1993	$1,636,269	$670,870	$965,399	5,210	$3,134,036	$1,849,081
1286	12 inch Underground Lines 271	12/31/1994	$48,682	$18,986	$29,696	5,408	$89,829	$54,796
1670	10 inch Underground Lines 2071	12/31/1994	$361,924	$141,150	$220,774	5,408	$667,833	$407,378
1672	Manholes 149 Qty	12/31/1994	$368,845	$143,850	$224,995	5,408	$680,604	$415,168
1874	8 inch Underground Lines 35591	12/31/1994	$5,909,371	$2,304,655	$3,604,716	5,408	$10,904,144	$6,651,528
1010	Risers 21 Qty	12/31/1995	$25,316	$9,367	$15,949	5,471	$46,176	$29,091
1571	10 inch Underground Lines 1166	12/31/1995	$203,906	$75,445	$128,461	5,471	$371,921	$234,310
1592	Manholes 101 Qty	12/31/1995	$237,650	$87,931	$149,720	5,471	$433,469	$273,086
1839	8 inch Underground Lines 19042	12/31/1995	$3,005,796	$1,112,145	$1,893,651	5,471	$5,482,515	$3,453,984
835	Risers 16 Qty	12/31/1996	$17,242	$6,035	$11,207	5,620	$30,615	$19,900
1509	10 inch Underground Lines 3348	12/31/1996	$137,443	$48,105	$89,338	5,620	$244,047	$158,630
1655	Manholes 242 Qty	12/31/1996	$390,260	$136,591	$253,669	5,620	$692,955	$450,420
1861	8 inch Underground Lines 36505	12/31/1996	$5,241,648	$1,834,577	$3,407,071	5,620	$9,307,190	$6,049,673
1321	24"" Underground Lines 266 Ft	12/31/1997	$69,387	$22,898	$46,489	5,826	$118,849	$79,629
1562	18"" Underground Lines 5387 Ft	12/31/1997	$224,297	$74,018	$150,279	5,826	$384,185	$257,404
1702	Manholes 341 Qty	12/31/1997	$633,775	$209,146	$424,629	5,826	$1,085,555	$727,322
1716	12"" Underground Lines 4510 Ft	12/31/1997	$699,154	$230,721	$468,433	5,826	$1,197,538	$802,351
1782	10"" Underground Lines 8838 Ft	12/31/1997	$1,335,718	$440,787	$894,931	5,826	$2,287,870	$1,532,873
1876	8"" Underground Lines 52027 Ft	12/31/1997	$8,862,990	$2,924,787	$5,938,203	5,826	$15,180,875	$10,171,186
860	6"" Underground Lines 130 Ft	12/31/1998	$22,433	$6,954	$15,479	5,920	$37,814	$26,092
1479	24"" Underground Lines 509 Ft	12/31/1998	$135,367	$41,964	$93,403	5,920	$228,180	$157,444
1537	16"" Underground Lines 1050 Ft	12/31/1998	$209,923	$65,076	$144,847	5,920	$353,855	$244,160
1608	12"" Underground Lines 5280 Ft	12/31/1998	$323,982	$100,434	$223,548	5,920	$546,118	$376,821
1681	Manholes 233 Qty	12/31/1998	$553,809	$171,681	$382,128	5,920	$933,524	$644,131
1686	10"" Underground Lines 4988 Ft	12/31/1998	$578,608	$179,368	$399,240	5,920	$975,326	$672,975
1867	8"" Underground Lines 42272 Ft	12/31/1998	$7,274,735	$2,255,168	$5,019,567	5,920	$12,262,598	$8,461,193
725	48 Inch Underground Lines 32 F	12/31/1999	$17,890	$5,188	$12,702	6,059	$29,464	$20,920
1086	21 Inch Underground Lines 187	12/31/1999	$44,568	$12,925	$31,643	6,059	$73,402	$52,116
1621	12 Inch Underground Lines 2045	12/31/1999	$400,785	$116,228	$284,557	6,059	$660,081	$468,658
1651	42 Inch Underground Lines 1046	12/31/1999	$498,590	$144,591	$353,999	6,059	$821,163	$583,026
1683	Manholes 228 Qty	12/31/1999	$617,263	$179,006	$438,257	6,059	$1,016,615	$721,796
1700	10 Inch Underground Lines 3982	12/31/1999	$759,481	$220,249	$539,232	6,059	$1,250,844	$888,099

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1862	8 Inch Underground Lines 38653	12/31/1999	$7,000,575	$2,030,167	$4,970,408	6,059	$11,529,747	$8,186,120
1304	12 Inch Underground Lines 440	12/31/2000	$87,721	$23,685	$64,036	6,221	$140,712	$102,720
1417	48 Inch Underground Lines 213	12/31/2000	$123,915	$33,457	$90,458	6,221	$198,770	$145,102
1565	Manholes 112 Qty	12/31/2000	$308,559	$83,311	$225,248	6,221	$494,954	$361,317
1802	8 Inch Underground Lines 13989	12/31/2000	$2,584,254	$697,749	$1,886,505	6,221	$4,145,358	$3,026,111
1572	Manholes 80 Qty	12/31/2001	$220,424	$91,843	$128,581	6,343	$346,778	$202,287
1618	12 Inch Underground Lines 1515	12/31/2001	$302,074	$125,864	$176,210	6,343	$475,232	$277,219
1721	10 Inch Underground Lines 3387	12/31/2001	$657,817	$274,090	$383,727	6,343	$1,034,898	$603,690
1801	8 Inch Underground Lines 9464	12/31/2001	$1,748,526	$728,553	$1,019,974	6,343	$2,750,834	$1,604,653
1297	12 Inch Underground Lines 547	12/31/2002	$111,352	$25,611	$85,741	6,538	$169,957	$130,867
1332	Manholes 46 Qty	12/31/2002	$125,124	$28,779	$96,345	6,538	$190,978	$147,053
1502	10 Inch Underground Lines 1276	12/31/2002	$253,017	$58,194	$194,823	6,538	$386,182	$297,360
1724	8 Inch Underground Lines 6831	12/31/2002	$1,288,519	$296,359	$992,160	6,538	$1,966,677	$1,514,341
1001	10 In Underground Pipe	6/30/2004	$60,616	$12,729	$47,887	7,115	$85,016	$67,162
1274	Manholes	6/30/2004	$121,204	$25,453	$95,751	7,115	$169,992	$134,294
1355	12 In Underground Pipe	6/30/2004	$157,157	$33,003	$124,154	7,115	$220,417	$174,130
1586	Valve, 60" Hay Marsh	6/30/2004	$78,427	$78,427	$0	7,115	$109,996	$0
1689	8 In Underground Pipe	6/30/2004	$1,153,057	$242,142	$910,915	7,115	$1,617,197	$1,277,586
571	6" Underground Lines	6/30/2005	$28,757	$5,464	$23,293	7,446	$38,540	$31,217
1416	Manholes	6/30/2005	$233,266	$44,321	$188,945	7,446	$312,619	$253,221
1516	12" Underground Lines	6/30/2005	$401,087	$76,207	$324,880	7,446	$537,530	$435,399
1519	10" Underground Lines	6/30/2005	$407,060	$77,341	$329,719	7,446	$545,535	$441,883
1757	8" Underground Lines	6/30/2005	$2,488,718	$472,856	$2,015,862	7,446	$3,335,337	$2,701,623
205	Manholes	6/30/2006	$12,161	$2,067	$10,094	7,751	$15,657	$12,995
992	Manholes	6/30/2006	$93,682	$15,926	$77,756	7,751	$120,611	$100,107
1031	21" Underground Pipe	6/30/2006	$101,680	$17,286	$84,394	7,751	$130,908	$108,653
1196	10" Underground Lines	6/30/2006	$161,554	$27,464	$134,090	7,751	$207,992	$172,634
1200	8" Underground Pipe	6/30/2006	$162,596	$27,641	$134,955	7,751	$209,334	$173,747
1533	12" Underground Pipe	6/30/2006	$603,684	$102,626	$501,057	7,751	$777,210	$645,085
1534	18" Underground Pipe	6/30/2006	$620,719	$105,522	$515,197	7,751	$799,143	$663,288
1601	8" Underground Lines	6/30/2006	$943,414	$160,380	$783,034	7,751	$1,214,595	$1,008,114
170	Risers	6/30/2008	$23,093	$3,002	$20,091	8,310	$27,731	$24,126
808	Manholes	6/30/2008	$135,522	$17,618	$117,904	8,310	$162,741	$141,584
1023	10" Underground Pipe 757 FT	6/30/2008	$186,804	$30,356	$156,448	8,310	$224,322	$187,870
1627	8" Underground Pipe 9094 FT	6/30/2008	$2,140,236	$347,788	$1,792,448	8,310	$2,570,086	$2,152,447
11	8" pipe 81 ft	6/30/2009	$19,902	$2,189	$17,713	8,570	$23,174	$20,625
1990	8" PIPE 2179 FT	1/1/2010	$535,395	$60,232	$475,163	8,799	$607,195	$538,885
1991	15" PIPE 459 FT	1/1/2010	$129,981	$14,623	$115,358	8,799	$147,412	$130,828
1992	MANHOLES 18 QTY	1/1/2010	$63,888	$7,187	$56,701	8,799	$72,456	$64,304
2227	PIPE 6" UNDERGROUND 120 LF	1/1/2011	$30,876	$4,323	$26,553	9,070	$33,970	$29,215
2228	PIPE 8" UNDERGROUND 15341 LF	1/1/2011	$3,947,224	$345,382	$3,601,842	9,070	$4,342,817	$3,962,820
2229	PIPE 10" UNDERGROUND 197 LF	1/1/2011	$53,158	$4,651	$48,507	9,070	$58,486	$53,368
2230	MANHOLES 106 QTY	1/1/2011	$392,382	$34,333	$358,049	9,070	$431,707	$393,932

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2231	RISERS 25 QTY	1/1/2011	$45,166	$3,952	$41,214	9,070	$49,693	$45,344
2304	8" PIPE, 3404 FT	6/30/2012	$908,059	$45,403	$862,656	9,308	$973,520	$924,844
2305	10" PIPE, 929 FT	6/30/2012	$260,129	$13,006	$247,123	9,308	$278,881	$264,937
2306	12" PIPE, 701 FT	6/30/2012	$201,802	$10,090	$191,712	9,308	$216,350	$205,532
2307	14" PIPE, 85 FT	6/30/2012	$25,289	$1,264	$24,025	9,308	$27,112	$25,756
2308	15" PIPE, 65 FT	6/30/2012	$20,005	$1,000	$19,005	9,308	$21,447	$20,375
2309	MANHOLES, 32 QTY	6/30/2012	$123,000	$6,150	$116,850	9,308	$131,867	$125,274
2383	10" PIPE PVC 510 LF	1/1/2013	$392,368	$6,539	$385,828	9,547	$410,122	$403,287
2384	10" PIPE HDPE 546.46 LF	1/1/2013	$1,025,140	$15,377	$1,009,763	9,547	$1,071,528	$1,055,455
2386	8" PIPE, 4712 LF	1/1/2013	$1,257,654	$37,730	$1,219,924	9,547	$1,314,563	$1,275,126
2387	10" PIPE, 929 LF	1/1/2013	$260,268	$7,808	$252,460	9,547	$272,045	$263,884
2388	12" PIPE, 701 LF	1/1/2013	$201,802	$6,054	$195,748	9,547	$210,934	$204,605
2389	MANHOLES, 52 QTY	1/1/2013	$199,960	$5,999	$193,961	9,547	$209,008	$202,738
2390	8" PIPE, 2216 LF	1/1/2013	$603,445	$18,103	$585,342	9,547	$630,751	$611,828
2391	MANHOLES, 18 QTY	1/1/2013	$69,348	$2,080	$67,268	9,547	$72,486	$70,311
2636	6" PIPE, 61 LF	1/1/2014	$17,094	$214	$16,880	9,672	$17,637	$17,416
2637	8" PIPE, 985 LF	1/1/2014	$276,320	$3,454	$272,866	9,672	$285,091	$281,527
2638	10" PIPE, 640 LF	1/1/2014	$188,128	$2,352	$185,776	9,672	$194,099	$191,673
2639	12" PIPE, 579 LF	1/1/2014	$174,759	$2,184	$172,575	9,672	$180,306	$178,052
2640	MANHOLES, 14 QTY	1/1/2014	$56,382	$705	$55,677	9,672	$58,172	$57,444
Subtotal Contri-CS			**$205,113,683**	**$122,650,269**	**$82,463,414**		**$1,005,998,513**	**$163,064,243**
EQUIPMENT-CS								
1520	Camera Equipment	12/31/1995	$36,681	$36,681	$0	5,471	$66,905	$0
1240	Isco Samplers	12/31/1996	$12,341	$12,341	$0	5,620	$21,913	$0
1364	Camera RST Omieye III	12/31/1999	$17,861	$17,861	$0	6,059	$29,417	$0
1374	60 000 Lb Vehicle Hoist Maint	12/31/2000	$55,306	$29,865	$25,441	6,221	$88,715	$40,809
856	Novastar Camera	6/30/2008	$15,497	$15,497	$0	8,310	$18,609	$0
857	Novastar Camera	6/30/2008	$15,497	$15,497	$0	8,310	$18,609	$0
97	RST 1500 Mini-Camera	6/30/2009	$10,277	$5,652	$4,625	8,570	$11,967	$5,385
841	Mr Manhole Casting Ringsaw	6/30/2009	$44,548	$44,548	$0	8,570	$51,872	$0
1159	12" HDPE By-Pass Piping	6/30/2009	$200,336	$110,185	$90,151	8,570	$233,273	$104,973
1914	PUMP, 6" SUBMERSIBLE	1/1/2010	$15,150	$6,818	$8,333	8,799	$17,182	$9,450
2016	BRIDGE CRANE	1/1/2011	$43,365	$7,589	$35,776	9,070	$47,711	$39,362
2410	LUMBERJACK CUTTING TOOL	1/1/2014	$13,793	$1,379	$12,413	9,672	$14,230	$12,807
Subtotal Equipment-CS			**$480,651**	**$303,913**	**$176,738**		**$620,404**	**$212,786**
EQUIPMENT-FMC								
1229	Plant equipment FY 91-92 Royce	12/31/1991	$0	$0	$0	4,835	$0	$0
1281	Suction Chopper Pump Panel T	12/31/1991	$0	$0	$0	4,835	$0	$0
1358	OFFICE TRAILER - TRAINING CENTER	12/31/1995	$17,593	$17,593	$0	5,471	$32,089	$0
1284	Lift Truck 4000 lb Hyster	12/31/1998	$19,840	$19,840	$0	5,920	$33,443	$0
1504	Channel Monster	12/31/1998	$47,285	$47,285	$0	5,920	$79,706	$0

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1505	Channel Monster	12/31/1998	$47,285	$47,285	$0	5,920	$79,706	$0
1506	Channel Monster	12/31/1998	$47,285	$47,285	$0	5,920	$79,706	$0
1507	Channel Monster	12/31/1998	$47,285	$47,285	$0	5,920	$79,706	$0
961	Hoist Monorail System Maint B	12/31/2000	$28,468	$9,608	$18,860	6,221	$45,665	$30,253
1108	Pump Submersible 6 in ITT Fl	12/31/2000	$10,561	$10,561	$0	6,221	$16,941	$0
1439	Man Lift Genie S-40 40 Ft	12/31/2002	$52,120	$39,959	$12,161	6,538	$79,551	$18,562
1455	Crane Proj 124	12/31/2002	$56,829	$43,569	$13,260	6,538	$86,738	$20,239
1456	Crane Proj 124	12/31/2002	$56,829	$43,569	$13,260	6,538	$86,738	$20,239
1139	Laser Alignment System	9/15/2003	$16,833	$16,833	$0	6,694	$25,093	$0
869	6" Submersible Pump	10/12/2004	$10,637	$10,105	$532	7,115	$14,918	$746
926	SPM Leonova Vibration Monitor	1/10/2007	$17,865	$16,748	$1,117	7,966	$22,380	$1,399
631	Spare ARV's	2/1/2007	$16,888	$8,444	$8,444	7,966	$21,155	$10,578
394	Jerome H2S Meter	6/30/2008	$11,808	$7,675	$4,133	8,310	$14,179	$4,962.66
777	Repeater System	6/30/2008	$17,731	$16,464	$1,266	8,310	$21,292	$1,521
386	Vapor Recovery System	6/30/2009	$33,901	$18,645	$15,255	8,570	$39,474	$17,763
1906	DRILL PRESS 2, MAINT SHOP	1/1/2010	$13,516	$4,055	$9,461	8,799	$15,329	$10,730
2013	VERTICLE BAND SAW	1/1/2011	$11,645	$2,038	$9,607	9,070	$12,812	$10,570
2017	BAND SAW, HORIZONTAL	1/1/2011	$11,030	$3,861	$7,170	9,070	$12,136	$7,888
2239	RKI GAS DETECTORS	6/30/2012	$69,831	$34,916	$34,916	9,308	$74,865	$37,433
2412	EXHAUST GAS ANALYZER	1/1/2014	$16,283	$814	$15,469	9,672	$16,800	$15,960
2414	6" SUBMERSIBLE PUMP	1/1/2014	$16,748	$419	$16,329	9,672	$17,280	$16,848
Subtotal Equipment FMC			**$696,094**	**$514,854**	**$181,240**		**$1,007,701**	**$225,690**
EQUIPMENT-LAB								
1190	Microproc.Control Clean Sys	12/31/1998	$0	$0	$0	5,920	$0	$0
1376	FIMS-100 Atomic Absorption Spe	12/31/1999	$19,844	$19,844	$0	6,059	$32,683	$0
1610	ICP Perkin Elmer Optima 3100XL	12/31/1999	$72,438	$72,438	$0	6,059	$119,303	$0
1078	Fume Hood Lab 1 Proj 124	12/31/2002	$12,932	$12,932	$0	6,538	$19,738	$0
1079	Fume Hood Lab 2 Proj 124	12/31/2002	$12,932	$12,932	$0	6,538	$19,738	$0
1080	Fume Hood Lab 3 Proj 124	12/31/2002	$12,932	$12,932	$0	6,538	$19,738	$0
1081	Fume Hood Lab 4 Proj 124	12/31/2002	$12,932	$12,932	$0	6,538	$19,738	$0
1082	Fume Hood Lab 5 Proj 124	12/31/2002	$12,932	$12,932	$0	6,538	$19,738	$0
694	Olympus Microscope & Dig Camer	6/30/2006	$13,414	$7,601	$5,813	7,751	$17,270	$7,484
Subtotal Equipment-Lab			**$170,357**	**$164,544**	**$5,813**		**$267,947**	**$7,484**
EQUIPMENT-PORT								
1508	Generator 250-KW Trailer Mount	12/31/1976	$33,154	$33,154	$0	2,401	$137,794	$0
1419	Pump Diesel 10 Inch 1979 Gorma	12/31/1979	$21,322	$21,322	$0	3,003	$70,853	$0
1334	Pump Suction Lift 6 inch diese	12/31/1984	$0	$0	$0	4,146	$0	$0
1574	Backhoe Case #127	12/31/1995	$56,117	$56,117	$0	5,471	$102,356	$0
1577	BACKHOE CASE #131	12/31/1996	$56,831	$56,831	$0	5,620	$100,910	$0
1249	Compressor Air Portable Leroi	12/31/1998	$14,640	$14,640	$0	5,920	$24,678	$0
1423	PUMP DIESEL 6" GORMAN RUPP	12/31/1998	$30,597	$30,597	$0	5,920	$51,576	$0

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
1183	Trailer Eager Beaver Model 20X	12/31/1999	$16,994	$16,428	$566	6,059	$27,989	$933
1383	PUMP 6IN PORTABLE DIESEL GORMAN	12/31/1999	$30,597	$29,577	$1,020	6,059	$50,392	$1,680
1039	Concrete Saw Trailer	12/31/2000	$12,927	$11,635	$1,293	6,221	$20,737	$2,074
1245	Lift Truck 3000 lb Yale #24	12/31/2000	$22,186	$19,968	$2,219	6,221	$35,589	$3,559
1275	Pump 4 Inch Gorman Rupp	12/31/2001	$26,732	$22,277	$4,455	6,343	$42,056	$7,009
726	Welder Portable Miller	12/31/2002	$10,545	$6,063	$4,482	6,538	$16,095	$6,840
1691	Sewer Cleaner Combo Hydraulic	9/30/2003	$282,065	$246,807	$35,258	6,694	$420,485	$52,561
1277	Root Foamer	6/30/2004	$0	$0	$0	7,115	$0	$0
1201	Forklift, Komatsu	3/11/2005	$25,306	$24,041	$1,265	7,446	$33,915	$1,696
1308	Trailer, By-Pass Hose	6/30/2005	$51,028	$32,318	$18,710	7,446	$68,387	$25,075
868	Boackhoe Trailer	6/30/2006	$20,503	$11,619	$8,885	7,751	$26,397	$11,439
884	Emergency Response Trailer	6/30/2006	$21,189	$12,007	$9,182	7,751	$27,279	$11,821
1192	Vac Press Tank Stainless Steel	6/30/2006	$47,244	$26,772	$20,472	7,751	$60,824	$26,357
1061	10" Gorman Rupp Pump	7/1/2006	$47,064	$23,532	$23,532	7,751	$60,592	$30,296
545	Scissor Lift	6/30/2008	$16,323	$10,610	$5,713	8,310	$19,602	$6,861
698	Solar Message Board	6/30/2008	$21,032	$13,671	$7,361	8,310	$25,256	$8,840
1100	Skid Steer Loader	6/30/2008	$73,566	$31,794	$41,772	8,310	$88,341	$50,161
1929	ATLAS TRAILER/AIR COMPRESSOR	1/1/2010	$13,165	$4,937	$8,228	8,799	$14,930	$9,331
1930	MULTIQUIP CONCRETE SAW	1/1/2010	$20,829	$9,373	$11,456	8,799	$23,623	$12,993
1937	PUMP, 4" GODWIN DRI-PRIME	1/1/2010	$43,747	$13,124	$30,623	8,799	$49,614	$34,730
2247	HYDRAULIC BREAKER ATTACHED TO CAT 480I	6/30/2012	$11,993	$1,999	$9,994	9,308	$12,858	$10,715
2404	6" DRI-PRIME PUMP ON TRAILER	1/1/2014	$57,307	$1,910	$55,396	9,672	$59,126	$57,155
2413	TRAILER, TILT DECK	1/1/2014	$14,441	$481	$13,960	9,672	$14,899	$14,403
Subtotal Equipment-Port			**$1,099,445**	**$783,602**	**$315,843**		**$1,687,152**	**$386,527**
LAND								
2021	LAND - BOYCE ROAD, FREMONT	1/1/2011	$348,142	$0	$348,142	9,070	$383,033	$383,033
2024	LAND - HICKORY STREET, NEWARK	1/1/2011	$423,343	$0	$423,343	9,070	$465,771	$465,771
Subtotal Land			**$771,485**	**$0**	**$771,485**		**$848,804**	**$848,804**
LIFT STATIONS								
1464	Mechanical/Electrical	12/31/1960	$0	$0	$0	824	$0	$0
1671	Mechanical/Electrical	12/31/1985	$105,000	$105,000	$0	4,195	$249,772	$0
1499	Boyce Road Pump	12/31/1991	$0	$0	$0	4,835	$0	$0
1522	Pump Station Influent Channel	12/31/2000	$131,620	$59,229	$72,391	6,221	$211,129	$116,121
1732	Boyce Rd PS Rehabilitation Pro	12/31/2000	$0	$0	$0	6,221	$0	$0
1444	Boyce Pump Sta Relocation Proj	12/31/2002	$0	$0	$0	6,538	$0	$0
540	Hydraulic System Boyce LS	3/10/2005	$0	$0	$0	7,446	$0	$0
346	Pumps 5/6 Sictopm Pipe Platfor	6/30/2005	$15,377	$2,922	$12,455	7,446	$20,608	$16,692
351	Pumps 5/6 Dschg Pipe Platform	6/30/2005	$15,997	$3,039	$12,958	7,446	$21,439	$17,366
374	Conveyor & Centrifuge Platform	6/30/2005	$17,908	$3,403	$14,505	7,446	$24,000	$19,440
390	Grit Hopper Platform	6/30/2005	$19,089	$3,627	$15,462	7,446	$25,583	$20,722
435	Generator Enclosure Platform	6/30/2005	$21,979	$4,176	$17,803	7,446	$29,456	$23,859

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633	Static Loop Platform	6/30/2005	$31,479	$5,981	$25,498	7,446	$42,188	$34,172
699	Carbon Filter Platform	6/30/2005	$35,328	$6,712	$28,616	7,446	$47,346	$38,350
826	Proj187 Platform Install	6/30/2005	$46,662	$8,866	$37,797	7,446	$62,536	$50,654
1168	Muffin Monster Chan Grinder	6/30/2005	$0	$0	$0	7,446	$0	$0
1299	Muffin Monster Chan Grinder	6/30/2005	$0	$0	$0	7,446	$0	$0
1944	DIESEL STORAGE TANK	1/1/2010	$59,225	$10,661	$48,565	8,799	$67,167	$55,077
2045	HEADGATE	1/1/2011	$16,298	$2,852	$13,446	9,070	$17,931	$14,793
2562	24" PVC GRAVITY SEWER, 72 LF	1/1/2014	$200,440	$6,681	$193,759	9,672	$206,802	$199,909
2563	PROCESS PIPING AND FITTINGS	1/1/2014	$182,167	$1,822	$180,345	9,672	$187,949	$186,069
2564	GENERATOR, STANDBY	1/1/2014	$174,234	$4,356	$169,878	9,672	$179,765	$175,270
2565	BRIDGE CRANE	1/1/2014	$107,657	$2,691	$104,965	9,672	$111,074	$108,297
2566	SEWAGE PUMP 1	1/1/2014	$106,240	$2,656	$103,584	9,672	$109,613	$106,872
2567	SEWAGE PUMP 2	1/1/2014	$106,240	$2,656	$103,584	9,672	$109,613	$106,872
2568	SEWAGE PUMP 2	1/1/2014	$106,240	$2,656	$103,584	9,672	$109,613	$106,872
2569	LIFT STATION CONTROL PANEL	1/1/2014	$99,158	$2,479	$96,679	9,672	$102,305	$99,747
2570	HYDRAULIC POWER UNIT	1/1/2014	$99,158	$2,479	$96,679	9,672	$102,305	$99,747
2571	14" & 16" PVC/DI FORCE MAIN 150 LF	1/1/2014	$78,901	$789	$78,112	9,672	$81,406	$80,592
2572	30" CONCRETE SEWER W/CIP LINING 65 LF	1/1/2014	$67,994	$680	$67,314	9,672	$70,152	$69,450
2574	MANHOLE M17009	1/1/2014	$62,611	$626	$61,985	9,672	$64,598	$63,952
2575	MANHOLE M17010	1/1/2014	$62,611	$626	$61,985	9,672	$64,598	$63,952
2576	PUMP 1 - VARIABLE FREQ DRIVE	1/1/2014	$60,911	$1,523	$59,388	9,672	$62,845	$61,273
2577	PUMP 2 - VARIABLE FREQ DRIVE	1/1/2014	$60,911	$1,523	$59,388	9,672	$62,845	$61,273
2578	PUMP 2 - VARIABLE FREQ DRIVE	1/1/2014	$60,911	$1,523	$59,388	9,672	$62,845	$61,273
2579	ELECTRIC HOIST W/MOTOR DRIVEN TROLLEY	1/1/2014	$60,911	$1,523	$59,388	9,672	$62,845	$61,273
2580	SLUICE GATE 3	1/1/2014	$53,120	$1,328	$51,792	9,672	$54,806	$53,436
2581	24" CORREG METAL SEWER W/CIPP LINING 3	1/1/2014	$48,162	$482	$47,681	9,672	$49,691	$49,194
2582	MAIN SWITCHBOARD	1/1/2014	$30,456	$508	$29,948	9,672	$31,422	$30,899
2584	GAS DETECTION SYSTEM	1/1/2014	$30,314	$1,010	$29,303	9,672	$31,276	$30,234
2585	PRECAST VALVE VAULT STRUCTURE	1/1/2014	$26,489	$441	$26,048	9,672	$27,330	$26,875
2586	ACTUATOR - SLUICE GATE 1	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2587	ACTUATOR - SLUICE GATE 2	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2588	ACTUATOR - SLUICE GATE 3	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2589	ACTUATOR - PUMP 1 SUCTION VALVE	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2590	ACTUATOR - PUMP 1 DISCHARGE VALVE	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2591	ACTUATOR - PUMP 2 SUCTION VALVE	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2592	ACTUATOR - PUMP 2 DISCHARGE VALVE	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2593	ACTUATOR - PUMP 3 SUCTION VALVE	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2594	ACTUATOR - PUMP 2 DISCHARGE VALVE	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2595	ELECTRICAL ROOM SUPPLY FAN	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2596	ELECTRICAL ROOM EXHAUST FAN	1/1/2014	$22,806	$570	$22,236	9,672	$23,530	$22,942
2597	MOTOR CONTROL CENTER 1	1/1/2014	$21,248	$354	$20,894	9,672	$21,922	$21,557
2598	SLUICE GATE 2	1/1/2014	$21,248	$531	$20,717	9,672	$21,922	$21,374
2599	HYDRAULIC ACTUATED SLUICE GATE 1	1/1/2014	$21,248	$531	$20,717	9,672	$21,922	$21,374

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2600	HEAD GATE HYDRAULIC UNIT ACCUMULATOF	1/1/2014	$18,273	$305	$17,969	9,672	$18,853	$18,539
2601	PUMP 1 SUCTION VALVE - 12" PLUG VALVE	1/1/2014	$18,273	$457	$17,817	9,672	$18,853	$18,382
2602	PUMP 1 DISCHARGE VALVE - 12" PLUG VALVE	1/1/2014	$18,273	$457	$17,817	9,672	$18,853	$18,382
2603	PUMP 2 SUCTION VALVE - 12" PLUG VALVE	1/1/2014	$18,273	$457	$17,817	9,672	$18,853	$18,382
2604	PUMP 2 DISCHARGE VALVE - 12" PLUG VALVE	1/1/2014	$18,273	$457	$17,817	9,672	$18,853	$18,382
2605	PUMP 3 SUCTION VALVE - 12" PLUG VALVE	1/1/2014	$18,273	$457	$17,817	9,672	$18,853	$18,382
2606	PUMP 3 DISCHARGE VALVE - 12" PLUG VALVE	1/1/2014	$18,273	$457	$17,817	9,672	$18,853	$18,382
2607	AUTOMATIC TRANSFER SWITCH	1/1/2014	$17,565	$293	$17,272	9,672	$18,123	$17,821
2608	SLIDE GATE 1	1/1/2014	$17,140	$429	$16,712	9,672	$17,684	$17,242
2609	WEIR GATE 1	1/1/2014	$17,140	$429	$16,712	9,672	$17,684	$17,242
2610	WEIR GATE 2	1/1/2014	$17,140	$429	$16,712	9,672	$17,684	$17,242
2611	WETWELL SUPPLY FAN	1/1/2014	$15,582	$390	$15,192	9,672	$16,076	$15,675
2612	WETWELL EXHAUST FAN	1/1/2014	$15,582	$390	$15,192	9,672	$16,076	$15,675
2613	DRYWELL SUPPLY FAN	1/1/2014	$15,582	$390	$15,192	9,672	$16,076	$15,675
2614	DRYWELL EXHAUST FAN	1/1/2014	$15,582	$390	$15,192	9,672	$16,076	$15,675
2615	MECHANICAL ROOM SUPPLY FAN	1/1/2014	$15,582	$390	$15,192	9,672	$16,076	$15,675
2616	MECHANICAL ROOM EXHAUST FAN	1/1/2014	$15,582	$390	$15,192	9,672	$16,076	$15,675
2617	TLS-350 LEAK DETECTION SYSTEM	1/1/2014	$15,299	$510	$14,789	9,672	$15,784	$15,258
2618	PUMP 1 DISCHARGE CK VALVE 12" SWING	1/1/2014	$15,299	$382	$14,916	9,672	$15,784	$15,390
2619	PUMP 2 DISCHARGE CK VALVE 12" SWING	1/1/2014	$15,299	$382	$14,916	9,672	$15,784	$15,390
2620	PUMP 3 DISCHARGE CK VALVE 12" SWING	1/1/2014	$15,299	$382	$14,916	9,672	$15,784	$15,390
2621	PIPING - MISC WATER AND STORM DRAINS	1/1/2014	$15,157	$152	$15,005	9,672	$15,638	$15,482
2622	CONTROL PANEL HYDRAULIC POWER UNIT	1/1/2014	$15,157	$379	$14,778	9,672	$15,638	$15,247
Subtotal Lift Stations			**$3,098,310**	**$274,362**	**$2,823,948**		**$3,483,470**	**$3,011,829**
OFFICE FURNITURE								
1218	Microform Scanner Minolta MS	12/31/2001	$15,687	$15,687	$0	6,343	$24,679	$0
1075	Workstations 10qty and Furni	12/31/2002	$25,429	$14,622	$10,807	6,538	$38,812	$16,495
1752	Furniture Modular Proj 133	12/31/2002	$654,454	$376,311	$278,143	6,538	$998,898	$424,532
324	Maintenance Copier Sharp	6/30/2009	$10,221	$10,221	$0	8,570	$11,902	$0
1905	FURNITURE, MODULAR	1/1/2010	$10,008	$2,252	$7,757	8,799	$11,351	$8,797
1934	XEROX COLORQUBE 9202	1/1/2010	$21,774	$19,597	$2,177	8,799	$24,694	$2,469
Subtotal Office Furniture			**$737,573**	**$438,689**	**$298,884**		**$1,110,336**	**$452,293**
PUMP STATION								
1741	Pipes Tanks & Components	12/31/1979	$333,400	$230,046	$103,354	3,003	$1,107,892	$343,446
1742	Mechanical Equipment	12/31/1979	$198,500	$198,500	$0	3,003	$659,618	$0
1792	Electrical Equipment	12/31/1979	$535,900	$462,214	$73,686	3,003	$1,780,801	$244,860
1824	Non Structural Construction -	12/31/1979	$739,276	$637,626	$101,650	3,003	$2,456,622	$337,785
879	Piping	12/31/1985	$10,395	$5,925	$4,470	4,195	$24,727	$10,633
1195	Influent Line	12/31/1985	$23,927	$13,638	$10,289	4,195	$56,917	$24,474
1668	Mechanical Equip	12/31/1985	$103,700	$103,700	$0	4,195	$246,680	$0
1623	Pump Station Improvement	12/31/1991	$88,065	$88,065	$0	4,835	$181,758	$0

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1068	Hypo Tank 9000 gal	12/31/2000	$18,796	$12,687	$6,109	6,221	$30,150	$9,799
1523	Pump Station Influent Channel	12/31/2000	$131,620	$59,229	$72,391	6,221	$211,129	$116,121
431	Actuator at Wet Well 1	6/30/2005	$10,757	$4,087	$6,669	7,446	$14,416	$8,938
432	Actuator at Wet Well 2	6/30/2005	$10,757	$4,087	$6,669	7,446	$14,416	$8,938
433	Slide Gate at Wet Well 1	6/30/2005	$10,757	$4,087	$6,669	7,446	$14,416	$8,938
434	Slide Gate at Wet Well 2	6/30/2005	$10,757	$4,087	$6,669	7,446	$14,416	$8,938
450	Actuator, Sluice Gate	6/30/2005	$11,374	$4,322	$7,052	7,446	$15,243	$9,450
487	Actuator, Sluice Gate	6/30/2005	$12,072	$4,587	$7,485	7,446	$16,179	$10,031
488	Sluice Gate	6/30/2005	$12,072	$4,587	$7,485	7,446	$16,179	$10,031
510	Actuator, Sluice Gate	6/30/2005	$12,779	$4,856	$7,923	7,446	$17,126	$10,618
511	Sluice Gate Bsn 2 to Ovfl	6/30/2005	$12,779	$4,856	$7,923	7,446	$17,126	$10,618
515	Non-Potable Water Pump 1	6/30/2005	$13,021	$4,948	$8,073	7,446	$17,450	$10,819
516	Non-Potable Water Pump 2	6/30/2005	$13,021	$4,948	$8,073	7,446	$17,450	$10,819
522	Actuator, Sluice Gate	6/30/2005	$13,195	$5,014	$8,181	7,446	$17,683	$10,963
533	Actuator at Wet Well 3	6/30/2005	$13,433	$5,104	$8,328	7,446	$18,002	$11,161
534	Actuator at Wet Well 3	6/30/2005	$13,433	$5,104	$8,328	7,446	$18,002	$11,161
535	Actuator at Wet Well 3	6/30/2005	$13,433	$5,104	$8,328	7,446	$18,002	$11,161
536	Slide Gate at Wet Well 2	6/30/2005	$13,433	$5,104	$8,328	7,446	$18,002	$11,161
537	Slide Gate at Wet Well 3	6/30/2005	$13,433	$5,104	$8,328	7,446	$18,002	$11,161
538	Slide Gate at Wet Well 3	6/30/2005	$13,433	$5,104	$8,328	7,446	$18,002	$11,161
557	Pump 1 Check Valve	6/30/2005	$11,301	$5,368	$5,933	7,446	$15,145	$7,951
558	Pump 2 Check Valve	6/30/2005	$11,301	$5,368	$5,933	7,446	$15,145	$7,951
559	Pump 3 Check Valve	6/30/2005	$11,301	$5,368	$5,933	7,446	$15,145	$7,951
560	Pump 4 Check Valve	6/30/2005	$11,301	$5,368	$5,933	7,446	$15,145	$7,951
565	Bucket 1 Basin Flush Tank	6/30/2005	$17,063	$5,403	$11,660	7,446	$22,868	$15,626
566	Bucket 2 Basin Flush Tank	6/30/2005	$17,063	$5,403	$11,660	7,446	$22,868	$15,626
567	Bucket 3 Basin Flush Tank	6/30/2005	$17,063	$5,403	$11,660	7,446	$22,868	$15,626
568	Bucket 4 Basin Flush Tank	6/30/2005	$17,063	$5,403	$11,660	7,446	$22,868	$15,626
569	Bucket 5 Basin Flush Tank	6/30/2005	$17,063	$5,403	$11,660	7,446	$22,868	$15,626
570	Bucket 6 Basin Flush Tank	6/30/2005	$17,063	$5,403	$11,660	7,446	$22,868	$15,626
581	Exhaust Fans Dry Well	6/30/2005	$11,709	$5,562	$6,147	7,446	$15,692	$8,238
582	Exhaust Fans PS	6/30/2005	$11,709	$5,562	$6,147	7,446	$15,692	$8,238
583	Wet Well Drainage Pump	6/30/2005	$14,649	$5,567	$9,082	7,446	$19,632	$12,172
598	Actuator, Plug Valve on Booste	6/30/2005	$15,172	$5,765	$9,407	7,446	$20,333	$12,607
599	Plug Valve on Booster Line	6/30/2005	$15,172	$5,765	$9,407	7,446	$20,333	$12,607
640	Check Valve, Bypass Vault N	6/30/2005	$15,964	$6,066	$9,898	7,446	$21,395	$13,265
641	Check Valve, South	6/30/2005	$15,964	$6,066	$9,898	7,446	$21,395	$13,265
642	Fill Plug Valve, North	6/30/2005	$15,964	$6,066	$9,898	7,446	$21,395	$13,265
643	Fill Plug Valve, South	6/30/2005	$15,964	$6,066	$9,898	7,446	$21,395	$13,265
644	Plug Valve, North	6/30/2005	$15,964	$6,066	$9,898	7,446	$21,395	$13,265
645	Plug Valve, South	6/30/2005	$15,964	$6,066	$9,898	7,446	$21,395	$13,265
664	Sluice Gate Btwn 1 & 2	6/30/2005	$13,195	$6,267	$6,927	7,446	$17,683	$9,284
679	Gas Monitoring System	6/30/2005	$13,602	$6,461	$7,141	7,446	$18,229	$9,570

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
680	Gas Monitoring System	6/30/2005	$13,602	$6,461	$7,141	7,446	$18,229	$9,570
718	Actuator, Sluice Gate	6/30/2005	$14,968	$7,110	$7,858	7,446	$20,060	$10,531
719	Sluice Gate	6/30/2005	$14,968	$7,110	$7,858	7,446	$20,060	$10,531
729	Washdown Pump 1	6/30/2005	$19,253	$7,316	$11,937	7,446	$25,802	$15,997
730	Washdown Pump 2	6/30/2005	$19,253	$7,316	$11,937	7,446	$25,802	$15,997
731	Washdown Pump 3	6/30/2005	$19,253	$7,316	$11,937	7,446	$25,802	$15,997
737	Actuator, Pump 1	6/30/2005	$15,514	$7,369	$8,145	7,446	$20,792	$10,916
738	Actuator, Pump 2	6/30/2005	$15,514	$7,369	$8,145	7,446	$20,792	$10,916
739	Actuator, Pump 3	6/30/2005	$15,514	$7,369	$8,145	7,446	$20,792	$10,916
740	Actuator, Pump 4	6/30/2005	$15,514	$7,369	$8,145	7,446	$20,792	$10,916
741	Pump 1 Dischg Gate Valve	6/30/2005	$15,514	$7,369	$8,145	7,446	$20,792	$10,916
742	Pump 2 Dischg Gate Valve	6/30/2005	$15,514	$7,369	$8,145	7,446	$20,792	$10,916
743	Pump 3 Dischg Gate Valve	6/30/2005	$15,514	$7,369	$8,145	7,446	$20,792	$10,916
744	Pump 4 Dischg Gate Valve	6/30/2005	$15,514	$7,369	$8,145	7,446	$20,792	$10,916
767	Actuator Gate Valve Lwr Dischg	6/30/2005	$16,103	$7,649	$8,454	7,446	$21,581	$11,330
788	Sluice Gate, Headgate 2	6/30/2005	$17,353	$8,243	$9,111	7,446	$23,257	$12,210
809	Actuator, Pump 1 Suction	6/30/2005	$18,165	$8,629	$9,537	7,446	$24,345	$12,781
810	Actuator, Pump 2 Suction	6/30/2005	$18,165	$8,629	$9,537	7,446	$24,345	$12,781
811	Actuator, Pump 3 Suction	6/30/2005	$18,165	$8,629	$9,537	7,446	$24,345	$12,781
812	Actuator, Pump 4 Suction	6/30/2005	$18,165	$8,629	$9,537	7,446	$24,345	$12,781
813	Pump 1 Suction Gate Valve	6/30/2005	$18,165	$8,629	$9,537	7,446	$24,345	$12,781
814	Pump 2 Suction Gate Valve	6/30/2005	$18,165	$8,629	$9,537	7,446	$24,345	$12,781
815	Pump 3 Suction Gate Valve	6/30/2005	$18,165	$8,629	$9,537	7,446	$24,345	$12,781
816	Pump 5 Suction Gate Valve	6/30/2005	$18,165	$8,629	$9,537	7,446	$24,345	$12,781
829	Pump 5 Check Valve	6/30/2005	$18,861	$8,959	$9,902	7,446	$25,277	$13,271
830	Pump 6 Check Valve	6/30/2005	$18,861	$8,959	$9,902	7,446	$25,277	$13,271
863	Actuator, Pump 5 Suction	6/30/2005	$21,177	$10,059	$11,118	7,446	$28,381	$14,900
864	Actuator, Pump 6 Suction	6/30/2005	$21,177	$10,059	$11,118	7,446	$28,381	$14,900
865	Pump 5 Suction Gate Valve	6/30/2005	$21,177	$10,059	$11,118	7,446	$28,381	$14,900
866	Pump 6 Suction Gate Valve	6/30/2005	$21,177	$10,059	$11,118	7,446	$28,381	$14,900
872	Actuator, Pump 5 Dischg	6/30/2005	$21,381	$10,156	$11,225	7,446	$28,654	$15,043
873	Actuator, Pump 6 Dischg	6/30/2005	$21,381	$10,156	$11,225	7,446	$28,654	$15,043
874	Pump 5 Dischg Gate Valve	6/30/2005	$21,381	$10,156	$11,225	7,446	$28,654	$15,043
875	Pump 6 Dischg Gate Valve	6/30/2005	$21,381	$10,156	$11,225	7,446	$28,654	$15,043
904	Actuator Hdr Gate Valve	6/30/2005	$23,411	$11,120	$12,291	7,446	$31,375	$16,472
905	Actuator Hdr Gate Valve	6/30/2005	$23,411	$11,120	$12,291	7,446	$31,375	$16,472
906	Lower Dischg Hdr E Gate Valve	6/30/2005	$23,411	$11,120	$12,291	7,446	$31,375	$16,472
907	Upper Dischg Hdr Gate Valve	6/30/2005	$23,411	$11,120	$12,291	7,446	$31,375	$16,472
910	36" Magnetic Flow Meter	6/30/2005	$23,530	$11,177	$12,353	7,446	$31,534	$16,556
919	24" Gate Valve	6/30/2005	$18,000	$11,400	$6,600	7,446	$24,123	$8,845
943	24" Pipe Liner	6/30/2005	$64,822	$12,316	$52,506	7,446	$86,873	$70,367
971	30" Steel Pipe & Fittings	6/30/2005	$34,600	$13,148	$21,452	7,446	$46,370	$28,750
1027	6"/8" Ductile Iron Pipe	6/30/2005	$47,085	$14,910	$32,175	7,446	$63,102	$43,120

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1065	Proj 163 Hywd Msh Outfall Modi	6/30/2005	$44,159	$16,780	$27,378	7,446	$59,181	$36,692
1142	Hydraulic Power Unit & Accumul	6/30/2005	$41,465	$19,696	$21,769	7,446	$55,571	$29,175
1174	Proj 136 Newark PS Cpct Improv	6/30/2005	$91,037	$21,621	$69,416	7,446	$122,006	$93,030
1177	Washdown PS Stucture	6/30/2005	$114,207	$21,699	$92,508	7,446	$153,059	$123,977
1219	Monorail Hoist Dry Well	6/30/2005	$52,317	$24,850	$27,466	7,446	$70,114	$36,810
1223	36" Welded Steel Pipe	6/30/2005	$131,843	$25,050	$106,793	7,446	$176,694	$143,122
1225	Pump 1 VFD	6/30/2005	$52,852	$25,105	$27,747	7,446	$70,832	$37,187
1226	Pump 2 VFD	6/30/2005	$52,852	$25,105	$27,747	7,446	$70,832	$37,187
1227	Pump 3 VFD	6/30/2005	$52,852	$25,105	$27,747	7,446	$70,832	$37,187
1228	Pump 4 VFD	6/30/2005	$52,852	$25,105	$27,747	7,446	$70,832	$37,187
1235	Generator Switchboard	6/30/2005	$54,734	$25,999	$28,736	7,446	$73,354	$38,511
1236	Main Switchboard	6/30/2005	$54,734	$25,999	$28,736	7,446	$73,354	$38,511
1237	Motor Control Center	6/30/2005	$54,734	$25,999	$28,736	7,446	$73,354	$38,511
1238	Motor Control Center	6/30/2005	$54,734	$25,999	$28,736	7,446	$73,354	$38,511
1239	PGE Switchboard	6/30/2005	$54,734	$25,999	$28,736	7,446	$73,354	$38,511
1259	12" PVC Storm Drain Pipe	6/30/2005	$145,440	$27,634	$117,807	7,446	$194,916	$157,882
1261	Pump 4 Motor	6/30/2005	$73,015	$27,746	$45,269	7,446	$97,853	$60,669
1262	Pump 1	6/30/2005	$73,015	$27,746	$45,269	7,446	$97,853	$60,669
1263	Pump 1 Motor	6/30/2005	$73,015	$27,746	$45,269	7,446	$97,853	$60,669
1264	Pump 2	6/30/2005	$73,015	$27,746	$45,269	7,446	$97,853	$60,669
1265	Pump 2 Motor	6/30/2005	$73,015	$27,746	$45,269	7,446	$97,853	$60,669
1266	Pump 3	6/30/2005	$73,015	$27,746	$45,269	7,446	$97,853	$60,669
1267	Pump 3 Motor	6/30/2005	$73,015	$27,746	$45,269	7,446	$97,853	$60,669
1268	Pump 4	6/30/2005	$73,015	$27,746	$45,269	7,446	$97,853	$60,669
1291	Pump 6 VFD	6/30/2005	$64,036	$30,417	$33,619	7,446	$85,819	$45,055
1292	Pump 5 VFD	6/30/2005	$64,037	$30,417	$33,619	7,446	$85,821	$45,056
1294	24" Weld Steel Bsn to Jct Strc	6/30/2005	$96,263	$30,483	$65,779	7,446	$129,009	$88,157
1310	Pump 5	6/30/2005	$85,378	$32,444	$52,935	7,446	$114,422	$70,942
1311	Pump 5 Motor	6/30/2005	$85,378	$32,444	$52,935	7,446	$114,422	$70,942
1312	Pump 6	6/30/2005	$85,378	$32,444	$52,935	7,446	$114,422	$70,942
1313	Pump 6 Motor	6/30/2005	$85,378	$32,444	$52,935	7,446	$114,422	$70,942
1333	30" Weld Steel Pipe Twr to Bsn	6/30/2005	$108,819	$34,459	$74,359	7,446	$145,837	$99,655
1359	24" Welded Steel Pipe	6/30/2005	$195,729	$37,189	$158,540	7,446	$262,313	$212,473
1362	16" Weld Steel PS byps to Bsn	6/30/2005	$118,236	$37,441	$80,794	7,446	$158,457	$108,279
1363	Bridge Crane	6/30/2005	$78,860	$37,459	$41,402	7,446	$105,687	$55,486
1387	Odor Scrubber Contain Structur	6/30/2005	$87,892	$41,749	$46,143	7,446	$117,791	$61,840
1434	Pump Relocation	6/30/2005	$49,847	$47,355	$2,492	7,446	$66,804	$3,340
1435	Pump Relocation	6/30/2005	$49,847	$47,355	$2,492	7,446	$66,804	$3,340
1459	24" Welded Stell Pipe	6/30/2005	$281,189	$53,426	$227,763	7,446	$376,845	$305,244
1467	Foot Valve, East	6/30/2005	$145,496	$55,288	$90,208	7,446	$194,991	$120,895
1475	Basin Odor Scrubber Fan & Duct	6/30/2005	$153,602	$58,369	$95,233	7,446	$205,854	$127,630
1528	33" Welded Steel Pipe	6/30/2005	$445,096	$84,568	$360,528	7,446	$596,510	$483,173
1546	48" Welded Stell Pipe	6/30/2005	$503,690	$95,701	$407,989	7,446	$675,037	$546,780

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1563	36" Welded Steel Pipe	6/30/2005	$575,991	$109,438	$466,553	7,446	$771,933	$625,266
1567	30"/36" Weld Steel Bsn to Ovrf	6/30/2005	$357,846	$113,318	$244,528	7,446	$479,579	$327,712
1576	24" Parshall Flume at Hywd Msh	6/30/2005	$187,514	$118,759	$68,755	7,446	$251,303	$92,144
1581	Surge Tower Structure Improv	6/30/2005	$646,577	$122,850	$523,727	7,446	$866,531	$701,890
1588	PROJ 162 PS Force Main Repair	6/30/2005	$690,924	$131,275	$559,648	7,446	$925,964	$750,031
1594	Site Work - Electrical	6/30/2005	$289,279	$137,408	$151,871	7,446	$387,687	$203,536
1605	Odor Scrubber Fan & Ducting	6/30/2005	$296,621	$140,895	$155,726	7,446	$397,526	$208,701
1606	36" Weld Steel Pipe	6/30/2005	$445,364	$141,032	$304,332	7,446	$596,869	$407,861
1607	36" Steel Pipe, Up/Lw Dschg Hd	6/30/2005	$445,853	$141,187	$304,666	7,446	$597,524	$408,308
1642	Flap Gate 1	6/30/2005	$505,652	$192,148	$313,504	7,446	$677,665	$420,153
1643	Flap Gate 2	6/30/2005	$505,652	$192,148	$313,504	7,446	$677,665	$420,153
1644	Flap Gate 3	6/30/2005	$505,652	$192,148	$313,504	7,446	$677,665	$420,153
1645	Flap Gate 4	6/30/2005	$505,652	$192,148	$313,504	7,446	$677,665	$420,153
1646	Flap Gate 5	6/30/2005	$505,652	$192,148	$313,504	7,446	$677,665	$420,153
1647	Flap Gate 6	6/30/2005	$505,652	$192,148	$313,504	7,446	$677,665	$420,153
1652	Programmable Logic Controller	6/30/2005	$424,325	$201,554	$222,770	7,446	$568,672	$298,553
1677	1250 KW Eng Genrator & Enclosu	6/30/2005	$615,871	$234,031	$381,840	7,446	$825,380	$511,735
1687	Basin Washdown System	6/30/2005	$685,348	$260,432	$424,916	7,446	$918,491	$569,465
1803	Proj 117 Irv PS Improvements	6/30/2005	$2,948,328	$933,637	$2,014,691	7,446	$3,951,298	$2,700,054
685	#1 NPS Booster Pump VFD	6/30/2006	$13,167	$7,461	$5,706	7,751	$16,952	$7,346
1448	Diesel Tank, Above Ground	6/30/2007	$187,304	$70,239	$117,065	7,966	$234,636	$146,647
1462	Diesel Tank, Above Ground	6/30/2007	$205,664	$77,124	$128,540	7,966	$257,635	$161,022
1470	Diesel Tank, Above Ground	6/30/2007	$216,673	$81,252	$135,421	7,966	$271,426	$169,641
61	Traffic Bollards	6/30/2008	$11,286	$1,834	$9,452	8,310	$13,553	$11,351
193	Sump Pump	6/30/2008	$13,085	$3,402	$9,683	8,310	$15,713	$11,627
315	Gas Detector Alarm/Beacon	6/30/2008	$16,322	$5,305	$11,017	8,310	$19,600	$13,230
366	Surge Tower Lights	6/30/2008	$15,203	$6,588	$8,615	8,310	$18,256	$10,345
44	FLS Hydraulic Power Unit	6/30/2009	$13,982	$3,845	$10,137	8,570	$16,281	$11,804
1946	IPS OVERFLOW POND	1/1/2010	$517,719	$93,190	$424,530	8,799	$587,149	$481,462
1954	UPPER DSCHG HEADER FLOW METER	1/1/2010	$45,084	$10,144	$34,940	8,799	$51,130	$39,626
2090	SITE PIPING/CONDUIT/PAD/FENCE/PAVING	1/1/2011	$425,195	$29,764	$395,432	9,070	$467,809	$435,062
2092	PUMP STATION LIGHTS	1/1/2011	$45,552	$5,314	$40,237	9,070	$50,117	$44,270
2093	PS VENTILATION DUCTWORK	1/1/2011	$284,697	$39,858	$244,840	9,070	$313,230	$269,378
2094	PS ELECTRICAL CABLE TRAY/CONDUIT/WIRES	1/1/2011	$833,451	$97,236	$736,215	9,070	$916,980	$809,999
2095	GENERATOR PAD/CONDUIT/WIRE/APPURTEN	1/1/2011	$454,092	$52,977	$401,115	9,070	$499,602	$441,315
2096	GENERATOR	1/1/2011	$768,559	$134,498	$634,061	9,070	$845,584	$697,607
2099	DRY WELL EXHAUST FAN	1/1/2011	$62,278	$14,531	$47,746	9,070	$68,519	$52,531
2100	DRY WELL SUPPLY FAN	1/1/2011	$62,278	$14,531	$47,746	9,070	$68,519	$52,531
2101	DRY WELL ROOF FAN #1`	1/1/2011	$62,278	$14,531	$47,746	9,070	$68,519	$52,531
2102	DRY WELL ROOF FAN #2	1/1/2011	$62,278	$14,531	$47,746	9,070	$68,519	$52,531
2103	MAIN SWITCFHBOARD	1/1/2011	$1,015,621	$118,489	$897,131	9,070	$1,117,407	$987,042
2104	MOTOR CONTROL CENTER	1/1/2011	$589,323	$68,754	$520,569	9,070	$648,386	$572,741
2105	RAW SEWAGE PUMP #1 VFD	1/1/2011	$91,499	$10,675	$80,824	9,070	$100,669	$88,925

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2106	RAW SEWAGE PUMP #2 VFD	1/1/2011	$91,499	$10,675	$80,824	9,070	$100,669	$88,925
2107	RAW SEWAGE PUMP #3 VFD	1/1/2011	$91,499	$10,675	$80,824	9,070	$100,669	$88,925
2108	RAW SEWAGE PUMP #4 VFD	1/1/2011	$91,499	$10,675	$80,824	9,070	$100,669	$88,925
2109	RAW SEWAGE PUMP #5 VFD	1/1/2011	$91,499	$10,675	$80,824	9,070	$100,669	$88,925
2110	RAW SEWAGE PUMP #6 VFD	1/1/2011	$91,499	$10,675	$80,824	9,070	$100,669	$88,925
2111	PLC PANEL	1/1/2011	$49,571	$11,567	$38,005	9,070	$54,540	$41,814
2114	NEWARK EFFLUENT VALVE BOX 480V	1/1/2011	$122,135	$14,249	$107,886	9,070	$134,376	$118,698
2115	NEWARK EFFLUENT VALVE BOX LIGHTING	1/1/2011	$61,068	$7,125	$53,943	9,070	$67,188	$59,349
2116	NEWAR INFLUENT VALVE BOX 480V	1/1/2011	$122,135	$14,249	$107,886	9,070	$134,376	$118,698
2117	NEWARK INFLUENT VALVE BOX LIGHTNING	1/1/2011	$61,068	$7,125	$53,943	9,070	$67,188	$59,349
2118	WET WELL 1/2 GATE ACTUATOR	1/1/2011	$18,505	$3,238	$15,267	9,070	$20,360	$16,797
2119	WET WELL 2/3 GATAE ACTUATOR	1/1/2011	$18,505	$3,238	$15,267	9,070	$20,360	$16,797
2120	HEAD GATE	1/1/2011	$202,847	$20,285	$182,562	9,070	$223,176	$200,859
2121	WET WELL #1 LEVEL INDICATOR	1/1/2011	$14,235	$3,321	$10,913	9,070	$15,661	$12,007
2122	WET WELL #2 LEVEL INDICATOR	1/1/2011	$14,235	$3,321	$10,913	9,070	$15,661	$12,007
2123	WET WELL #3 LEVEL INDICATOR	1/1/2011	$14,235	$3,321	$10,913	9,070	$15,661	$12,007
2124	FLOW METER #	1/1/2011	$56,939	$13,286	$43,654	9,070	$62,646	$48,029
2125	FLOW METER #2	1/1/2011	$56,939	$13,286	$43,654	9,070	$62,646	$48,029
2126	INFLUENT BOX LEVEL INDICATOR	1/1/2011	$14,235	$3,321	$10,913	9,070	$15,661	$12,007
2127	SURGE TOWER LEVEL INDICATOR	1/1/2011	$14,235	$3,321	$10,913	9,070	$15,661	$12,007
2128	GROUND LEVEL DRY WELL HOIST	1/1/2011	$113,879	$19,929	$93,950	9,070	$125,292	$103,366
2129	GROUND LEVEL WET WELL HOIST	1/1/2011	$85,409	$14,947	$70,463	9,070	$93,969	$77,524
2130	BOTTOM LEVEL DRY WELL BRIDGECRANE	1/1/2011	$85,409	$14,947	$70,463	9,070	$93,969	$77,524
2131	HEAD GATE HYDRAULIC POWER SUPPLY	1/1/2011	$202,847	$35,498	$167,349	9,070	$223,176	$184,120
2132	DRY WELL SUMP PUMP #1	1/1/2011	$21,352	$4,982	$16,370	9,070	$23,492	$18,011
2133	DRY WELL SUMP PUMP #2	1/1/2011	$21,352	$4,982	$16,370	9,070	$23,492	$18,011
2134	RAW SEWAGE PUMP #1	1/1/2011	$197,613	$46,110	$151,503	9,070	$217,418	$166,687
2135	RAW SEWAGE PUMP #	1/1/2011	$197,613	$46,110	$151,503	9,070	$217,418	$166,687
2136	RAW SEWAGE PUMP #3	1/1/2011	$197,613	$46,110	$151,503	9,070	$217,418	$166,687
2137	RAW SEWAGE PUMP #4	1/1/2011	$197,613	$46,110	$151,503	9,070	$217,418	$166,687
2138	RAW SEWAGE PUMP #5	1/1/2011	$197,613	$46,110	$151,503	9,070	$217,418	$166,687
2139	RAW SEWAGE PUMP #6	1/1/2011	$197,613	$46,110	$151,503	9,070	$217,418	$166,687
2140	DEWATERING PUMP	1/1/2011	$92,527	$21,590	$70,937	9,070	$101,800	$78,046
2141	PUMP #1 CHECK VALVE	1/1/2011	$56,939	$5,694	$51,246	9,070	$62,646	$56,381
2142	PUMP #2 CHECK VALVE	1/1/2011	$56,939	$5,694	$51,246	9,070	$62,646	$56,381
2143	PUMP #3 CHECK VALVE	1/1/2011	$56,939	$5,694	$51,246	9,070	$62,646	$56,381
2144	PUMP #4 CHECK VALVE	1/1/2011	$56,939	$5,694	$51,246	9,070	$62,646	$56,381
2145	PUMP #5 CHECK VALVE	1/1/2011	$56,939	$5,694	$51,246	9,070	$62,646	$56,381
2146	PUMP #6 CHECK VALVE	1/1/2011	$56,939	$5,694	$51,246	9,070	$62,646	$56,381
2147	PUMP #1 DISCHARGE GATE VALVE	1/1/2011	$26,097	$2,610	$23,488	9,070	$28,713	$25,841
2149	PUMP #2 DISCHARGE GATE VALVE	1/1/2011	$26,097	$2,610	$23,488	9,070	$28,713	$25,841
2151	PUMP #3 DISCHARGE GATE VALVE	1/1/2011	$26,097	$2,610	$23,488	9,070	$28,713	$25,841
2153	PUMP #4 DISCHARGE GATE VALVE	1/1/2011	$26,097	$2,610	$23,488	9,070	$28,713	$25,841

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2155	PUMP #5 DISCHARGE GATE VALVE	1/1/2011	$26,097	$2,610	$23,488	9,070	$28,713	$25,841
2157	PUMP #6 DISCHARGE GATE VALVE	1/1/2011	$26,097	$2,610	$23,488	9,070	$28,713	$25,841
2159	DISCHARGE HEADER GATE VALVE #1	1/1/2011	$42,705	$4,270	$38,434	9,070	$46,984	$42,286
2161	DISCHARGE HEADER GATE VALVE #2	1/1/2011	$42,705	$4,270	$38,434	9,070	$46,984	$42,286
2163	DISCHARGE HEADER GATE VALVE #3	1/1/2011	$42,705	$4,270	$38,434	9,070	$46,984	$42,286
2165	DISCHARGE HEADER GATE VALVE #4	1/1/2011	$42,705	$4,270	$38,434	9,070	$46,984	$42,286
2167	DISCHARGE HEADER PIPING	1/1/2011	$288,256	$40,356	$247,900	9,070	$317,145	$272,745
2168	PUMP #1 SUCTION GATE VALVE	1/1/2011	$35,587	$3,559	$32,028	9,070	$39,154	$35,238
2169	PUMP #2 SUCTION GATE VALVE	1/1/2011	$35,587	$3,559	$32,028	9,070	$39,154	$35,238
2170	PUMP #3 SUCTION GATE VALVE	1/1/2011	$35,587	$3,559	$32,028	9,070	$39,154	$35,238
2171	PUMP #4 SUCTION GATE VALVE	1/1/2011	$35,587	$3,559	$32,028	9,070	$39,154	$35,238
2172	PUMP #5 SUCTION GATE VALVE	1/1/2011	$35,587	$3,559	$32,028	9,070	$39,154	$35,238
2173	PUMP #6 SUCTION GATE VALVE	1/1/2011	$35,587	$3,559	$32,028	9,070	$39,154	$35,238
2174	PUMP #1 SUCTION AND DISCHARGE PIPING	1/1/2011	$37,544	$5,256	$32,288	9,070	$41,307	$35,524
2175	PUMP #2 SUCTION AND DISCHARGE PIPING	1/1/2011	$37,544	$5,256	$32,288	9,070	$41,307	$35,524
2176	PUMP #3 SUCTION AND DISCHARGE PIPING	1/1/2011	$37,544	$5,256	$32,288	9,070	$41,307	$35,524
2177	PUMP #4 SUCTION AND DISCHARGE PIPING	1/1/2011	$37,544	$5,256	$32,288	9,070	$41,307	$35,524
2178	PUMP #5 SUCTION AND DISCHARGE PIPING	1/1/2011	$37,544	$5,256	$32,288	9,070	$41,307	$35,524
2179	PUMP #6 SUCTION AND DISCHARGE PIPING	1/1/2011	$37,544	$5,256	$32,288	9,070	$41,307	$35,524
2188	NEWARK REVERSE PUMPING PLUG VALVE	1/1/2011	$40,712	$4,071	$36,641	9,070	$44,792	$40,313
2189	BYPASS CONNECTION VALUT PLUG VALVE	1/1/2011	$27,758	$2,776	$24,982	9,070	$30,540	$27,486
2190	BYPASS CONNECTION VALUT PLUG VALVE	1/1/2011	$27,758	$2,776	$24,982	9,070	$30,540	$27,486
2191	BYPASS CONNECTION VAULT PLUG VALVE	1/1/2011	$27,758	$2,776	$24,982	9,070	$30,540	$27,486
2192	BYPASS CONNECTION VAULT CHECK VALVE	1/1/2011	$27,758	$2,776	$24,982	9,070	$30,540	$27,486
2193	BYPASS CONNECTION VAULT CHECK VALVE	1/1/2011	$27,758	$2,776	$24,982	9,070	$30,540	$27,486
2194	INFLUENT BOX FOOT VALVE #1	1/1/2011	$27,758	$2,776	$24,982	9,070	$30,540	$27,486
2195	INFLUENT BOX FOOT VALVE #2	1/1/2011	$27,758	$2,776	$24,982	9,070	$30,540	$27,486
2196	BYPASS PIPING	1/1/2011	$175,801	$17,580	$158,221	9,070	$193,419	$174,077
2197	KNIFE GATE VALVE V022007 ACTUATOR	1/1/2011	$21,502	$3,763	$17,739	9,070	$23,657	$19,517
2198	KNIFE GATE VALVE V022008 ACTUATOR	1/1/2011	$21,502	$3,763	$17,739	9,070	$23,657	$19,517
2199	KNIFE GATE VALVE V022009 ACTUATOR	1/1/2011	$21,502	$3,763	$17,739	9,070	$23,657	$19,517
2200	KNIFE GATE VALVE V022010 ACTUATOR	1/1/2011	$21,502	$3,763	$17,739	9,070	$23,657	$19,517
2201	KNIFE GATE VALVE V022011 ACTUATOR	1/1/2011	$21,502	$3,763	$17,739	9,070	$23,657	$19,517
2202	KNIFE GATE VALVE V022012 ACTUATOR	1/1/2011	$21,502	$3,763	$17,739	9,070	$23,657	$19,517
2203	KNIFE GATE VALVE V022013 ACTUATOR	1/1/2011	$21,502	$3,763	$17,739	9,070	$23,657	$19,517
2204	KNIFE GATE VALVE V022014 ACTUATOR	1/1/2011	$21,502	$3,763	$17,739	9,070	$23,657	$19,517
2205	KNIFE GATE VALVE V052005	1/1/2011	$61,538	$10,769	$50,769	9,070	$67,705	$55,857
2206	KNIFE GATE VALVE V052006 ACTUATOR	1/1/2011	$61,538	$10,769	$50,769	9,070	$67,705	$55,857
2207	KNIFE GATE VALVE V022015 ACTUATOR	1/1/2011	$31,601	$5,530	$26,071	9,070	$34,769	$28,684
2208	KNIFE GATE VALVE V022016 ACTUATOR	1/1/2011	$31,601	$5,530	$26,071	9,070	$34,769	$28,684
2209	KNIFE GATE VALVE V022017 ACTUATOR	1/1/2011	$31,601	$5,530	$26,071	9,070	$34,769	$28,684
2210	KNIFE GATE VALVE V022018 ACTUATOR	1/1/2011	$31,601	$5,530	$26,071	9,070	$34,769	$28,684
2211	KNIFE GATE VALVE V022019 ACTUATOR	1/1/2011	$31,601	$5,530	$26,071	9,070	$34,769	$28,684

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2212	KNIFE GATE VALVE V052001 ACTUATOR	1/1/2011	$42,705	$7,473	$35,231	9,070	$46,984	$38,762
2213	KNIFE GATE VALVE V052002 ACTUATOR	1/1/2011	$42,705	$7,473	$35,231	9,070	$46,984	$38,762
2475	SUNTECH 275 PV MODULES	1/1/2014	$1,602,935	$40,073	$1,562,861	9,672	$1,653,814	$1,612,468
2476	SUNSEEKER SINGLE AXIS TRACKER	1/1/2014	$610,323	$15,258	$595,065	9,672	$629,696	$613,953
2477	SOLARON INVERTER	1/1/2014	$325,569	$8,139	$317,430	9,672	$335,903	$327,505
2478	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2479	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2480	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2481	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2482	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2483	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2484	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2485	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2486	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2487	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2488	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2489	SOLAR BOS CONBINER BOXES	1/1/2014	$47,586	$1,190	$46,396	9,672	$49,096	$47,869
2490	BENTEK BIPOLAR RECOMBINER	1/1/2014	$18,854	$471	$18,383	9,672	$19,452	$18,966
2491	EATON 800A BREAKER	1/1/2014	$15,848	$396	$15,452	9,672	$16,351	$15,942
2500	RECTIFIER AT IPS	1/1/2014	$54,087	$1,803	$52,284	9,672	$55,804	$53,944
2501	CATHODIC PROTECTION	1/1/2014	$35,510	$1,184	$34,327	9,672	$36,638	$35,416
2502	CATHODIC PROTECTION	1/1/2014	$35,510	$1,184	$34,327	9,672	$36,638	$35,416
2503	CATHODIC PROTECTION	1/1/2014	$11,896	$397	$11,500	9,672	$12,274	$11,865
2504	CATHODIC PROTECTION	1/1/2014	$46,555	$1,552	$45,004	9,672	$48,033	$46,432
2535	RIO6T	1/1/2014	$62,378	$2,079	$60,298	9,672	$64,358	$62,212
Subtotal Pump Station			**$34,612,806**	**$9,750,055**	**$24,862,751**		**$46,541,499**	**$30,660,613**
RADIO								
2557	MOTOROLA HANDHELD RADIOS	1/1/2014	$77,509	$5,536	$71,973	9,672	$79,970	$74,257
2558	MOTOROLA RADIO SYSTEM	1/1/2014	$13,054	$932	$12,122	9,672	$13,469	$12,507
Subtotal Radio			**$90,564**	**$6,469**	**$84,095**		**$93,438**	**$86,764**
TELEPHONE								
1030	Call Pilot Voice Mail System	6/30/2009	$56,833	$56,833	$0	8,570	$66,177	$0
1933	NORTEL PBX SWITCH	1/1/2010	$48,410	$31,121	$17,289	8,799	$54,902	$19,608
Subtotal Telephone			**$105,243**	**$87,953**	**$17,289**		**$121,078**	**$19,608**
TREATMENT PLANT								
1786	Plant 1962 Proj Chlorine Conta	12/31/1962	$355,000	$355,000	$0	872	$4,062,552	$0
1584	PUMPS	12/31/1979	$60,000	$60,000	$0	3,003	$199,381	$0
1756	Tanks - Digester Insulation Co	12/31/1979	$300,000	$258,750	$41,250	3,003	$996,903	$137,074
1788	Mechanical Equipment Cathodic	12/31/1979	$485,000	$418,313	$66,688	3,003	$1,611,660	$221,603
1851	Piping--All Types 50 Yr Life	12/31/1979	$1,401,850	$1,209,096	$192,754	3,003	$4,658,362	$640,525

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1873	Mechanical Equipment 20 Year L	12/31/1979	$1,710,000	$1,710,000	$0	3,003	$5,682,348	$0
1458	FECL Storage Tank Add 1983 Pro	12/31/1983	$25,000	$25,000	$0	4,066	$61,356	$0
1424	Concrete/Rebar Excavation Prep	12/31/1984	$35,192	$25,954	$9,238	4,146	$84,704	$22,235
1695	Electrical Eng Generator Proj	12/31/1984	$140,000	$140,000	$0	4,146	$336,966	$0
1718	Underground Piping Eng Generat	12/31/1984	$265,115	$195,522	$69,593	4,146	$638,105	$167,502
1744	Non Structural Costs Engr. E	12/31/1984	$199,542	$199,542	$0	4,146	$480,277	$0
1821	Cogeneration Equipment Eng Gen	12/31/1984	$530,000	$530,000	$0	4,146	$1,275,656	$0
1901	Treatment Plant Expansion 1985	3/1/1988	$28,601,074	$18,948,212	$9,652,862	4,519	$63,157,804	$21,315,759
1886	Treatment Plant Expansion FYE	12/31/1988	$4,778,806	$3,046,489	$1,732,317	4,519	$10,552,712	$3,825,358
1494	Alvarado Plant Improvements FY	12/31/1989	$31,842	$31,842	$0	4,615	$68,852	$0
1575	Treatment Plant Improvements F	12/31/1989	$56,228	$56,228	$0	4,615	$121,582	$0
1743	Plant Improve FYE 063090 Cost	12/31/1989	$204,236	$204,236	$0	4,615	$441,619	$0
1863	Engine Generator - Standby	12/31/1989	$1,410,757	$1,410,757	$0	4,615	$3,050,475	$0
1764	Hoist Installations FYE 6/30/9	12/31/1990	$249,726	$249,726	$0	4,732	$526,631	$0
1766	Plant Improvments FYE 06/30/91	12/31/1990	$280,107	$280,107	$0	4,732	$590,699	$0
1811	Gravity Belt Thicken Joint Sea	12/31/1990	$764,209	$598,630	$165,579	4,732	$1,611,590	$349,178
1850	Plant Capacity ImprovementsFYE	12/31/1990	$1,104,592	$1,104,592	$0	4,732	$2,329,401	$0
1460	Gas Compressor Room Vent	12/31/1991	$25,503	$25,503	$0	4,835	$52,636	$0
1554	Hoist Installations	12/31/1991	$48,020	$48,020	$0	4,835	$99,109	$0
1375	Pump Div 85 (part of plant)	12/31/1992	$18,845	$18,845	$0	4,985	$37,724	$0
1675	Cathodic Protection System	12/31/1992	$109,169	$109,169	$0	4,985	$218,535	$0
1777	Inka Rehab (design)	12/31/1992	$539,403	$386,572	$152,831	4,985	$1,079,780	$305,938
1878	Inka Rehab C. M. & Cons.	12/31/1992	$3,718,883	$2,665,200	$1,053,684	4,985	$7,444,480	$2,109,269
1890	Improvements - Interim FY93	12/31/1992	$3,269,040	$3,269,040	$0	4,985	$6,543,982	$0
1710	Inka Rehab C.M. & Cons.	12/31/1993	$152,215	$152,215	$0	5,210	$291,546	$0
1552	Hetch Hetchy (Phase 1)	12/31/1994	$48,643	$48,643	$0	5,408	$89,757	$0
1632	Secondary Containment: S Hypo	12/31/1995	$91,800	$91,800	$0	5,471	$167,441	$0
1746	Reclaimed Water Pipeline	12/31/1995	$225,625	$225,625	$0	5,471	$411,536	$0
1781	Hayward Marsh Improvements B-2	12/31/1995	$361,837	$361,837	$0	5,471	$659,984	$0
1868	Hayward Marsh Improvements B-1	12/31/1995	$1,714,082	$1,714,082	$0	5,471	$3,126,453	$0
1900	Alvarado Wastewater Treatment	12/31/1995	$38,728,054	$17,911,725	$20,816,329	5,471	$70,639,234	$37,968,588
1214	Hayward Marsh Improvements B-2	12/31/1996	$13,946	$13,946	$0	5,620	$24,763	$0
1369	O&M Manual (Treatment Plant)	12/31/1996	$0	$0	$0	5,620	$0	$0
1847	Alvarado Wastewater Treatment	12/31/1996	$1,106,618	$1,106,618	$0	5,620	$1,964,936	$0
1394	Hayward Marsh Improvements B-1	12/31/1997	$26,603	$26,603	$0	5,826	$45,567	$0
1828	Reclaimed Water Demo	12/31/1997	$782,870	$782,870	$0	5,826	$1,340,930	$0
1714	Alvarado Trtmt Plant Cpty Stud	12/31/1998	$0	$0	$0	5,920	$0	$0
1779	Generator #4 PROJ 28-72	12/31/1998	$449,856	$449,856	$0	5,920	$758,296	$0
1638	WW Equalization Storage Sewer	12/31/1999	$278,472	$134,595	$143,877	6,059	$458,635	$236,962
1357	Soil Scrubber & W Reclamation	12/31/2000	$61,403	$27,631	$33,772	6,221	$98,496	$54,172
1556	Underground Diesel Tank Improv	12/31/2000	$173,950	$78,277	$95,672	6,221	$279,030	$153,466
1722	Sodium Hypochlorite Tank Repla	12/31/2000	$582,852	$262,284	$320,569	6,221	$934,944	$514,219
1783	Alvarado WWTF Upgrade 28-053	12/31/2000	$1,207,859	$543,537	$664,322	6,221	$1,937,506	$1,065,628

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
1053	Breaker Main Tie	10/5/2001	$20,493	$12,808	$7,685	6,343	$32,240	$12,090
785	Cogen Dollinger Gas Particle F	12/31/2001	$10,260	$6,413	$3,848	6,343	$16,141	$6,053
800	Generator #1 Breaker Panel Pro	12/31/2001	$10,609	$6,631	$3,978	6,343	$16,690	$6,259
899	Breaker - #2 Generator	12/31/2001	$13,863	$8,664	$5,199	6,343	$21,810	$8,179
900	Breaker - #3 Generator	12/31/2001	$13,863	$8,664	$5,199	6,343	$21,810	$8,179
923	Day Tank Generators 2 3	12/31/2001	$10,900	$9,083	$1,817	6,343	$17,148	$2,858
929	Cogen Train Air Cooled Water C	12/31/2001	$15,012	$9,383	$5,630	6,343	$23,617	$8,857
938	Cogen Heat Exchanger Proj 142	12/31/2001	$11,414	$9,511	$1,902	6,343	$17,956	$2,993
1049	Compressor and Tank Generator	12/31/2001	$15,114	$12,595	$2,519	6,343	$23,778	$3,963
1054	Breaker A Buss Main	12/31/2001	$20,493	$12,808	$7,685	6,343	$32,240	$12,090
1055	Breaker B Buss Main	12/31/2001	$20,493	$12,808	$7,685	6,343	$32,240	$12,090
1118	Cogen Gas Booster Blowers Proj	12/31/2001	$24,260	$15,162	$9,097	6,343	$38,166	$14,312
1119	Cogen Gas Booster Blowers Proj	12/31/2001	$24,260	$15,162	$9,097	6,343	$38,166	$14,312
1241	Cogen Activated Carbon Tank Pr	12/31/2001	$33,040	$20,650	$12,390	6,343	$51,980	$19,492
1242	Cogen Activated Carbon Tank Pr	12/31/2001	$33,040	$20,650	$12,390	6,343	$51,980	$19,492
1550	Generator #4 Rebuilt Proj 142	12/31/2001	$61,221	$61,221	$0	6,343	$96,314	$0
1712	Generator #1 Proj 142	12/31/2001	$419,645	$262,278	$157,367	6,343	$660,199	$247,574
1771	Cogen Proj 142 Mgmt & Overhead	12/31/2001	$721,163	$450,727	$270,436	6,343	$1,134,556	$425,459
1875	Alvarado Pump Addition & Autom	12/31/2001	$4,611,139	$2,881,962	$1,729,177	6,343	$7,254,384	$2,720,394
784	Cogen Dollinger Gas Particle F	6/30/2002	$10,260	$6,413	$3,848	6,538	$15,660	$5,872
782	Main Breaker Generator #4	12/31/2002	$11,801	$6,786	$5,015	6,538	$18,012	$7,655
1688	Hot Water Piping for Plant Pro	12/31/2002	$764,823	$219,887	$544,936	6,538	$1,167,355	$831,741
1305	Valves, ARV Isolation on Force	8/31/2003	$27,461	$27,461	$0	6,694	$40,937	$0
946	Grinder, 2 Channel Monster	9/30/2003	$16,083	$11,258	$4,825	6,694	$23,975	$7,193
947	Grinder, 2 Channel Monster	9/30/2003	$16,083	$11,258	$4,825	6,694	$23,975	$7,193
1361	#1 GBT Overhaul	9/30/2003	$32,223	$32,223	$0	6,694	$48,036	$0
1325	Pump, Internalift #3	10/14/2003	$29,120	$29,120	$0	6,694	$43,411	$0
1326	Pumps, Internalift #1	10/14/2003	$29,120	$29,120	$0	6,694	$43,411	$0
1152	Analyzer, Chlorine	11/17/2003	$0	$0	$0	6,694	$0	$0
1338	Mixing Pump, Sludge	6/30/2004	$60,000	$31,500	$28,500	7,115	$84,152	$39,972
1749	Proj 164 Digester 2 Dome Repai	6/30/2004	$744,871	$391,057	$353,814	7,115	$1,044,704	$496,235
901	Reclaimed Pump 4	3/23/2005	$11,647	$11,064	$582	7,446	$15,609	$780
553	Site Waste PS Ret Knife Gate V	6/30/2005	$11,170	$5,306	$5,864	7,446	$14,970	$7,859
687	Sludge Transfer Pump 1	6/30/2005	$13,695	$6,505	$7,190	7,446	$18,354	$9,636
688	Sludge Transfer Pump 2	6/30/2005	$13,695	$6,505	$7,190	7,446	$18,354	$9,636
790	Alv Div Structure Sluice Gate	6/30/2005	$17,500	$8,313	$9,188	7,446	$23,453	$12,313
804	Primary 5-6 Dewatering Pump	6/30/2005	$13,457	$8,523	$4,934	7,446	$18,035	$6,613
885	Headworks Gas LACP	6/30/2005	$11,000	$10,450	$550	7,446	$14,742	$737
886	Thickener Cntl Bldg Gas LACP	6/30/2005	$11,000	$10,450	$550	7,446	$14,742	$737
893	Effluent Makeup Pump 1	6/30/2005	$23,000	$10,925	$12,075	7,446	$30,824	$16,183
894	Effluent Makeup Pump 2	6/30/2005	$23,000	$10,925	$12,075	7,446	$30,824	$16,183
1005	Dig 3 Mixing Pump	6/30/2005	$30,296	$14,391	$15,905	7,446	$40,602	$21,316
1045	Sludge Pump Rm 1 Gas LACP	6/30/2005	$16,500	$15,675	$825	7,446	$22,113	$1,106

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1046	Sludge PUmp Rm 3 Gas LACP	6/30/2005	$16,500	$15,675	$825	7,446	$22,113	$1,106
1121	Odor Scrubber 18 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1122	Odor Scrubber 1 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1123	Odor Scrubber 10 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1124	Odor Scrubber 11 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1125	Odor Scrubber 12 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1126	Odor Scrubber 13 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1127	Odor Scrubber 14 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1128	Odor Scrubber 15 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1129	Odor Scrubber 16 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1130	Odor Scrubber 17 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1131	Odor Scrubber 2 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1132	Odor Scrubber 3 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1133	Odor Scrubber 4 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1134	Odor Scrubber 5 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1135	Odor Scrubber 6 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1136	Odor Scrubber 7 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1137	Odor Scrubber 8 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1138	Odor Scrubber 9 Upgrade	6/30/2005	$41,015	$19,482	$21,533	7,446	$54,967	$28,858
1436	MMC 5	6/30/2005	$125,000	$47,500	$77,500	7,446	$167,523	$103,864
1453	Effluent Screen Rehab	6/30/2005	$135,891	$51,639	$84,252	7,446	$182,119	$112,914
1454	Effluent Screen Rehab	6/30/2005	$135,891	$51,639	$84,252	7,446	$182,119	$112,914
1540	Aeration Bsn Diffuser Tank 7	6/30/2005	$59,362	$59,362	$0	7,446	$79,556	$0
1541	Aeration Bsn Diffuser Tank 4	6/30/2005	$59,493	$59,493	$0	7,446	$79,731	$0
1542	Aeration Bsn Diffuser Tank 5	6/30/2005	$59,493	$59,493	$0	7,446	$79,731	$0
1543	Aeration Bsn Diffuser Tank 6	6/30/2005	$59,493	$59,493	$0	7,446	$79,731	$0
1736	Proj 169 Digester 1 & 3 Rehab	6/30/2005	$625,621	$396,227	$229,395	7,446	$838,447	$307,431
1813	Proj 135 Plant Mech Inprovemen	6/30/2005	$2,136,284	$1,014,735	$1,121,549	7,446	$2,863,011	$1,503,081
1829	Proj 135 Plant Mech Inprovemen	6/30/2005	$2,658,207	$1,295,024	$1,363,183	7,446	$3,562,482	$1,826,914
451	Plumbing	6/30/2006	$23,802	$5,058	$18,744	7,751	$30,644	$24,132
465	Milliken Bottom Inlet Valves	6/30/2006	$15,326	$5,211	$10,115	7,751	$19,732	$13,023
466	Milliken Tip Inlet Valves	6/30/2006	$15,326	$5,211	$10,115	7,751	$19,732	$13,023
554	Basin 5 Main Air West Actuator	6/30/2006	$10,798	$6,119	$4,679	7,751	$13,902	$6,024
555	Basin 6 Main Air East Actuator	6/30/2006	$10,798	$6,119	$4,679	7,751	$13,902	$6,024
600	RAS Pump 1	6/30/2006	$11,780	$6,675	$5,105	7,751	$15,166	$6,572
601	RAS Pump 2	6/30/2006	$11,780	$6,675	$5,105	7,751	$15,166	$6,572
602	RAS Pump 3	6/30/2006	$11,780	$6,675	$5,105	7,751	$15,166	$6,572
603	RAS Pump 4	6/30/2006	$11,780	$6,675	$5,105	7,751	$15,166	$6,572
604	RAS Pump 5	6/30/2006	$11,780	$6,675	$5,105	7,751	$15,166	$6,572
619	Centrifuge 1 Bowl VFD	6/30/2006	$0	$0	$0	7,751	$0	$0
620	Centrifuge 1 Scroll VFD	6/30/2006	$0	$0	$0	7,751	$0	$0
621	Centrifuge 2 Bowll VFD	6/30/2006	$0	$0	$0	7,751	$0	$0
622	Centrifuge 2 Scroll VFD	6/30/2006	$0	$0	$0	7,751	$0	$0

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623	Centrifuge 3 Bowl VFD	6/30/2006	$0	$0	$0	7,751	$0	$0
624	Centrifuge 3 Scroll VFD	6/30/2006	$0	$0	$0	7,751	$0	$0
625	Centrifuge 4 Bowl VFD	6/30/2006	$0	$0	$0	7,751	$0	$0
626	Centrifuge 4 Scroll VFD	6/30/2006	$0	$0	$0	7,751	$0	$0
634	Centrifuge 1 Polymer Feed Pump	6/30/2006	$16,395	$6,968	$9,427	7,751	$21,108	$12,137
635	Centrifuge 2 Polymer Feed Pump	6/30/2006	$16,395	$6,968	$9,427	7,751	$21,108	$12,137
636	Centrifuge 3 Polymer Feed Pump	6/30/2006	$16,395	$6,968	$9,427	7,751	$21,108	$12,137
637	Centrifuge 4 Polymer Feed Pump	6/30/2006	$16,395	$6,968	$9,427	7,751	$21,108	$12,137
638	Polymer Tank 1 Recirc Pump	6/30/2006	$16,395	$6,968	$9,427	7,751	$21,108	$12,137
639	Polymer Tank 2 Recirc Pump	6/30/2006	$16,395	$6,968	$9,427	7,751	$21,108	$12,137
654	Centrifuge Bldg Compressor 1	6/30/2006	$16,647	$7,075	$9,572	7,751	$21,432	$12,323
655	Centrifuge Bldg Compressor 2	6/30/2006	$16,647	$7,075	$9,572	7,751	$21,432	$12,323
768	Loading Control Panel	6/30/2006	$20,775	$8,829	$11,946	7,751	$26,747	$15,380
791	Electrical Panel Explosion Pro	6/30/2006	$18,844	$9,903	$8,941	7,751	$24,261	$11,511
818	Rotork Valve Operator	6/30/2006	$11,778	$10,011	$1,767	7,751	$15,163	$2,274
819	Rotork Valve Operator	6/30/2006	$11,778	$10,011	$1,767	7,751	$15,163	$2,274
820	Rotork Valve Operator	6/30/2006	$11,778	$10,011	$1,767	7,751	$15,163	$2,274
821	Rotork Valve Operator	6/30/2006	$11,778	$10,011	$1,767	7,751	$15,163	$2,274
855	#4 Internalift Pump	6/30/2006	$26,528	$11,274	$15,254	7,751	$34,153	$19,638
858	#3 Reclaim Pump	6/30/2006	$13,309	$11,312	$1,996	7,751	$17,134	$2,570
930	Blending Unit 1 Emulsion Polym	6/30/2006	$32,216	$13,692	$18,524	7,751	$41,477	$23,849
931	Blending Unit 1 Manich Polymer	6/30/2006	$32,216	$13,692	$18,524	7,751	$41,477	$23,849
932	Blending Unit 1 Water Booster	6/30/2006	$32,216	$13,692	$18,524	7,751	$41,477	$23,849
933	Blending Unit 2 Emulsion Polym	6/30/2006	$32,216	$13,692	$18,524	7,751	$41,477	$23,849
934	Blending Unit 2 Manich Polymer	6/30/2006	$32,216	$13,692	$18,524	7,751	$41,477	$23,849
935	Blending Unit 2 Water Booster	6/30/2006	$32,216	$13,692	$18,524	7,751	$41,477	$23,849
945	Polymer Room Sump	6/30/2006	$33,608	$14,284	$19,325	7,751	$43,269	$24,880
1002	Polymer Tank 1 Mixer	6/30/2006	$38,458	$16,345	$22,114	7,751	$49,513	$28,470
1003	Polymer Tank 2 Mixer	6/30/2006	$38,458	$16,345	$22,114	7,751	$49,513	$28,470
1035	Fuel Air Ration Controller	6/30/2006	$20,812	$17,691	$3,122	7,751	$26,795	$4,019
1036	Fuel Air Ration Controller	6/30/2006	$20,812	$17,691	$3,122	7,751	$26,795	$4,019
1160	Centrifuge 1 Sludge Feed Pump	6/30/2006	$57,446	$24,415	$33,031	7,751	$73,959	$42,526
1161	Centrifuge 2 Sludge Feed Pump	6/30/2006	$57,446	$24,415	$33,031	7,751	$73,959	$42,526
1162	Centrifuge 3 Sludge Feed Pump	6/30/2006	$57,446	$24,415	$33,031	7,751	$73,959	$42,526
1163	Centrifuge 4 Sludge Feed Pump	6/30/2006	$57,446	$24,415	$33,031	7,751	$73,959	$42,526
1166	Process Piping	6/30/2006	$115,276	$24,496	$90,780	7,751	$148,412	$116,874
1188	Sludge Grinder 1	6/30/2006	$62,226	$26,446	$35,780	7,751	$80,112	$46,065
1189	Sludge Grinder 2	6/30/2006	$62,226	$26,446	$35,780	7,751	$80,112	$46,065
1314	Wemco Hydorstal Pump	6/30/2006	$111,173	$37,799	$73,374	7,751	$143,129	$94,465
1352	#3 GBT	6/30/2006	$48,816	$41,494	$7,322	7,751	$62,849	$9,427
1365	Blended Polymer Tank 1	6/30/2006	$102,647	$43,625	$59,022	7,751	$132,153	$75,988
1366	Blended Polymer Tank 2	6/30/2006	$102,647	$43,625	$59,022	7,751	$132,153	$75,988
1400	Centrifuge 1 Clsfy Conveyor	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223

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1401	Centrifuge 2 Clsfy Conveyor	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1402	Centrifuge 3 Clsfy Conveyor	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1403	Centrifuge 4 Clsfy Conveyor	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1404	Hopper 1 Distrib Conveyor	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1405	Hopper 1 Loading Conveyor 1	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1406	Hopper 1 Loading Conveyor 2	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1407	Hopper 2 Distrib Conveyor	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1408	Hopper 2 Loading Conveyor 1	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1409	Hopper 2 Loading Conveyor 2	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,432	$88,223
1410	Horizontal Collec Conveyor 1	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1411	Horizontal Collec Conveyor 2	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1412	Inclined Collec Conveyor 1	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1413	Inclined Collec Conveyor 2	6/30/2006	$119,175	$50,649	$68,526	7,751	$153,431	$88,223
1513	Aeration Bsn 1 Diffusers	6/30/2006	$50,244	$50,244	$0	7,751	$64,686	$0
1558	Odor Scrubber	6/30/2006	$364,224	$123,836	$240,388	7,751	$468,919	$309,487
1596	Centrifuge 1	6/30/2006	$374,017	$158,957	$215,060	7,751	$481,527	$276,878
1597	Centrifuge 2	6/30/2006	$374,017	$158,957	$215,060	7,751	$481,527	$276,878
1598	Centrifuge 3	6/30/2006	$374,017	$158,957	$215,060	7,751	$481,527	$276,878
1599	Centrifuge 4	6/30/2006	$374,017	$158,957	$215,060	7,751	$481,527	$276,878
1620	Process Piping	6/30/2006	$867,119	$184,263	$682,856	7,751	$1,116,369	$879,141
1641	Centrifuge PLC	6/30/2006	$515,102	$218,918	$296,184	7,751	$663,167	$381,321
714	Internalift Pump 6 Gear Box	2/1/2007	$13,299	$9,974	$3,325	7,966	$16,659	$4,165
715	Internalift Pump 7 Gear Box	2/1/2007	$13,299	$9,974	$3,325	7,966	$16,659	$4,165
716	Internalift Pump 8 Gear Box	2/1/2007	$13,299	$9,974	$3,325	7,966	$16,659	$4,165
827	Effluent Screen Gear Box	4/1/2007	$16,866	$12,650	$4,217	7,966	$21,128	$5,282
735	Reclaimed Pump 5	6/1/2007	$13,935	$10,451	$3,484	7,966	$17,456	$4,364
837	EBDA 60" Valve Actuator	6/1/2007	$17,514	$13,135	$4,378	7,966	$21,940	$5,485
425	Cogen 1 Temp Ctrl Valve	6/30/2007	$11,321	$5,661	$5,661	7,966	$14,182	$7,091
426	Cogen 4 Temp Ctrl Valve	6/30/2007	$11,321	$5,661	$5,661	7,966	$14,182	$7,091
427	Cogen 4 Water ByPass Cont Valv	6/30/2007	$11,321	$5,661	$5,661	7,966	$14,182	$7,091
454	Hot Water Circ Pump 6	6/30/2007	$12,523	$6,262	$6,262	7,966	$15,688	$7,844
455	Hot Water Circ Pump 7	6/30/2007	$12,523	$6,262	$6,262	7,966	$15,688	$7,844
477	Digester 6A Mix Pump Valve	6/30/2007	$12,955	$6,478	$6,478	7,966	$16,229	$8,114
478	Digester 6A Mix Pump Valve	6/30/2007	$12,955	$6,478	$6,478	7,966	$16,229	$8,114
479	Digester 6B Mix Pump Valve	6/30/2007	$12,955	$6,478	$6,478	7,966	$16,229	$8,114
480	Digester 6B Mix Pump Valve	6/30/2007	$12,955	$6,478	$6,478	7,966	$16,229	$8,114
514	Thickener Tank 4 Hatches	6/30/2007	$12,137	$7,002	$5,135	7,966	$15,204	$6,432
573	Electrical	6/30/2007	$20,728	$7,773	$12,955	7,966	$25,966	$16,229
576	Thickener Tank 3 Hatches	6/30/2007	$13,595	$7,843	$5,752	7,966	$17,030	$7,205
585	Temp Ctrl Valve 1	6/30/2007	$15,890	$7,945	$7,945	7,966	$19,906	$9,953
586	Temp Ctrl Valve 2	6/30/2007	$15,890	$7,945	$7,945	7,966	$19,906	$9,953
657	Temp Cntrl Valve 3	6/30/2007	$17,522	$8,761	$8,761	7,966	$21,950	$10,975
686	Ext Ctrl Panel for Sludge Valv	6/30/2007	$12,309	$9,232	$3,077	7,966	$15,419	$3,855

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
707	Meter Vault 6" Plug Valve	6/30/2007	$19,650	$9,825	$9,825	7,966	$24,616	$12,308
708	Meter Vault 6" Plug Valve	6/30/2007	$19,650	$9,825	$9,825	7,966	$24,616	$12,308
709	Meter Vault 6" Plug Valve	6/30/2007	$19,650	$9,825	$9,825	7,966	$24,616	$12,308
710	Supermatant Box 6" Plug Valve	6/30/2007	$19,650	$9,825	$9,825	7,966	$24,616	$12,308
712	Actuator Grit Pit Weir Gate	6/30/2007	$13,190	$9,893	$3,298	7,966	$16,523	$4,131
728	Digester 6 Hot Water Ctrl Valv	6/30/2007	$20,728	$10,364	$10,364	7,966	$25,966	$12,983
750	Sec Clarifier 2 Flow Meter	6/30/2007	$14,067	$10,551	$3,517	7,966	$17,622	$4,406
796	Sec Clarifier 2 Ctrl Valve	6/30/2007	$15,826	$11,869	$3,956	7,966	$19,825	$4,956
803	Digester 6 Hot Water Ctrl Valv	6/30/2007	$24,183	$12,091	$12,091	7,966	$30,294	$15,147
824	Thickener Ctrl Bldg Hatches	6/30/2007	$21,596	$12,459	$9,137	7,966	$27,053	$11,446
848	Hex 5 6" Dischg Plug Valve	6/30/2007	$27,565	$13,782	$13,782	7,966	$34,530	$17,265
849	Hex 5 6" Suction Plug Valve	6/30/2007	$27,565	$13,782	$13,782	7,966	$34,530	$17,265
850	Temp Control Valve 4	6/30/2007	$27,565	$13,782	$13,782	7,966	$34,530	$17,265
851	Temp Control Valve 5	6/30/2007	$27,565	$13,782	$13,782	7,966	$34,530	$17,265
854	Grit Pit Weir Gate	6/30/2007	$18,517	$13,888	$4,629	7,966	$23,196	$5,799
881	Hot Water Pump 4	6/30/2007	$29,475	$14,738	$14,738	7,966	$36,924	$18,462
882	Hot Water Pump 5	6/30/2007	$29,475	$14,738	$14,738	7,966	$36,924	$18,462
887	Air Comp Sludge Valve Act	6/30/2007	$19,995	$14,996	$4,999	7,966	$25,048	$6,262
903	Piping	6/30/2007	$42,054	$15,770	$26,284	7,966	$52,681	$32,925
920	Piping	6/30/2007	$43,337	$16,252	$27,086	7,966	$54,289	$33,931
985	Hot Water Pump 1	6/30/2007	$39,004	$19,502	$19,502	7,966	$48,860	$24,430
986	Hot Water Pump 2	6/30/2007	$39,004	$19,502	$19,502	7,966	$48,860	$24,430
1011	Cogen 1 Hot Water Circ Pump	6/30/2007	$41,040	$20,520	$20,520	7,966	$51,411	$25,706
1012	Cogen 4 Hot Water Circ Pump	6/30/2007	$41,040	$20,520	$20,520	7,966	$51,411	$25,706
1022	Piping	6/30/2007	$112,083	$21,015	$91,067	7,966	$140,406	$114,080
1033	Hydraulic Pwr Unit for Headgat	6/30/2007	$57,145	$21,430	$35,716	7,966	$71,586	$44,741
1092	Digester Mix Pump 6A	6/30/2007	$51,820	$25,910	$25,910	7,966	$64,915	$32,458
1093	Digester Mix Pump 6b	6/30/2007	$51,820	$25,910	$25,910	7,966	$64,915	$32,458
1096	Trench B Undgnd Chem Pipe	6/30/2007	$173,138	$25,971	$147,167	7,966	$216,889	$184,356
1143	Hot Water Pump 3	6/30/2007	$56,072	$28,036	$28,036	7,966	$70,241	$35,120
1154	Boiler Expansion Tank	6/30/2007	$58,730	$29,365	$29,365	7,966	$73,571	$36,785
1164	Cogen 1 Heat Exchanger	6/30/2007	$80,665	$30,250	$50,416	7,966	$101,050	$63,156
1165	Cogen 4 Heat Exchanger	6/30/2007	$80,665	$30,250	$50,416	7,966	$101,050	$63,156
1203	Digester 4/5 20" Crsvr Valve	6/30/2007	$68,912	$34,456	$34,456	7,966	$86,326	$43,163
1204	Digester 4/5 24" Crsovr Valve	6/30/2007	$68,912	$34,456	$34,456	7,966	$86,326	$43,163
1205	Digester 5 20" Plug Valve Low	6/30/2007	$68,912	$34,456	$34,456	7,966	$86,326	$43,163
1206	Digester 5 20" Plug Valve Upp	6/30/2007	$68,912	$34,456	$34,456	7,966	$86,326	$43,163
1207	Digester 5 24" Plug Valve	6/30/2007	$68,912	$34,456	$34,456	7,966	$86,326	$43,163
1208	Digester 5 24" Plug Valve	6/30/2007	$68,912	$34,456	$34,456	7,966	$86,326	$43,163
1209	digester 5 Mix Pump	6/30/2007	$68,912	$34,456	$34,456	7,966	$86,326	$43,163
1210	digester 5 Mix Pump	6/30/2007	$68,912	$34,456	$34,456	7,966	$86,326	$43,163
1212	Hot Water Boiler 6 Pump 2	6/30/2007	$69,526	$34,763	$34,763	7,966	$87,095	$43,547
1246	Vactor Pit	6/30/2007	$100,723	$37,771	$62,952	7,966	$126,176	$78,860

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
1300	Main Hot Water Circ Pump 2	6/30/2007	$88,094	$44,047	$44,047	7,966	$110,356	$55,178
1320	Hot Water Boiler 6 Pump 1	6/30/2007	$95,436	$47,718	$47,718	7,966	$119,552	$59,776
1329	Main Hot Water Circ Pump 1	6/30/2007	$96,731	$48,366	$48,366	7,966	$121,175	$60,588
1353	Piping	6/30/2007	$274,647	$51,496	$223,151	7,966	$344,051	$279,541
1371	Digester 5 Mixing Pump	6/30/2007	$111,351	$55,675	$55,675	7,966	$139,489	$69,745
1478	Piping	6/30/2007	$447,041	$83,820	$363,221	7,966	$560,008	$455,006
1525	Thickener Tank 1	6/30/2007	$304,489	$114,183	$190,306	7,966	$381,433	$238,396
1527	Thickener Tank 2	6/30/2007	$312,694	$117,260	$195,434	7,966	$391,711	$244,819
1708	sec Clarifier 2 Tank	6/30/2007	$1,210,783	$454,044	$756,739	7,966	$1,516,747	$947,967
277	West Mixing Sludge Fee Actuato	6/30/2008	$10,396	$4,505	$5,891	8,310	$12,484	$7,074
278	West Mixing Sludge Feed Actuat	6/30/2008	$10,396	$4,505	$5,891	8,310	$12,484	$7,074
36	Supply Fan	6/30/2009	$18,524	$3,396	$15,128	8,570	$21,570	$17,616
42	Blower 10 Blow Off Valve	6/30/2009	$20,301	$3,722	$16,579	8,570	$23,639	$19,305
45	HypoPump 1 Final Effluent Dsnf	6/30/2009	$10,607	$3,889	$6,718	8,570	$12,351	$7,822
46	HypoPump 2 Final Effluent Dsnf	6/30/2009	$10,607	$3,889	$6,718	8,570	$12,351	$7,822
50	Aeration Basin 6 Zone2&3 Isola	6/30/2009	$22,077	$4,047	$18,030	8,570	$25,707	$20,994
51	Aeration Basin6 Zone1 Isolatio	6/30/2009	$22,077	$4,047	$18,030	8,570	$25,707	$20,994
52	Auto Strainer Outlet	6/30/2009	$11,458	$4,201	$7,257	8,570	$13,342	$8,450
53	Auto Strainer Wash Water 2" Va	6/30/2009	$11,458	$4,201	$7,257	8,570	$13,342	$8,450
54	Auto StrainerWashWater2"V Actu	6/30/2009	$11,458	$4,201	$7,257	8,570	$13,342	$8,450
55	Manual Strainer	6/30/2009	$11,458	$4,201	$7,257	8,570	$13,342	$8,450
64	Pressure Sensor & Transducer	6/30/2009	$13,195	$4,838	$8,357	8,570	$15,364	$9,731
66	SD #1 PDS Isolation Valve	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
67	SD #1 Sludge Recirculation 2	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
68	SD #2 Gas Isolation 2	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
69	SD #2 Gas Isolation 3	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
70	SD #2 Multiport PRV Isolat Val	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
71	SD #2 PRV #1	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
72	SD #2 PRV #2	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
73	SD #2 Sludge Redirection 2	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
74	SD #2 Thermal Shutoff Valve	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
75	SD#2 Radar Level Indica Isolat	6/30/2009	$0	$0	$0	8,570	$0	$0
76	Secondary/Digester #2 Crossove	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
77	SecondaryDigest #2 Sludge Feed	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
78	SecondaryDigester #2 Recircula	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
79	SecondayDigester #2 Gas Isolat	6/30/2009	$13,492	$4,947	$8,545	8,570	$15,710	$9,950
101	DO Probe Aeration Basin5 Zone1	6/30/2009	$15,987	$5,862	$10,125	8,570	$18,616	$11,790
102	DO Probe Aeration Basin6 Zone1	6/30/2009	$15,987	$5,862	$10,125	8,570	$18,616	$11,790
103	DO Probe Aeration Basin7 Zone1	6/30/2009	$15,987	$5,862	$10,125	8,570	$18,616	$11,790
105	Manual Strainer Outlet	6/30/2009	$16,228	$5,950	$10,278	8,570	$18,896	$11,967
107	Aeration Basin5 Zone2 Control	6/30/2009	$33,496	$6,141	$27,355	8,570	$39,003	$31,853
108	Aeration Basin5 Zone3 Control	6/30/2009	$33,496	$6,141	$27,355	8,570	$39,003	$31,853
109	Aeration Basin6 Zone2 Control	6/30/2009	$33,496	$6,141	$27,355	8,570	$39,003	$31,853

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110	Aeration Basin6 Zone3 Control	6/30/2009	$33,496	$6,141	$27,355	8,570	$39,003	$31,853
111	Aeration Basin7 Zone1 Control	6/30/2009	$33,496	$6,141	$27,355	8,570	$39,003	$31,853
112	Aeration Basin7 Zone2 Control	6/30/2009	$33,496	$6,141	$27,355	8,570	$39,003	$31,853
113	Aeration Basin7 Zone3 Control	6/30/2009	$33,496	$6,141	$27,355	8,570	$39,003	$31,853
121	4" PDS Return Line Valve	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
122	6" SD By Pass Valve #1`	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
123	6" SD By Pass Valve #2	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
124	Gas Meter ByPass	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
125	Gas Meter Inlet	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
126	Gas Meter Outlet	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
128	SD #1 Crossover Valve	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
131	SD #1 Overflow Box	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
132	SD #1 Side Hatch Valve	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
135	SD #2 Overflow Valve	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
136	SD #2 Side hatch Valve	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
137	SD#1 Bottom Suction Isola Valv	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
138	SD#1 Side Suction Isola Valve	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
139	SD#2 BottomSuction Isolat Valv	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
140	SD#2 Side Suction Isola Valve	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
141	SDS Circulation Pump #1 Check	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
142	SDS Circulation Pump #1 Inlet	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
143	SDS Circulation Pump #1 Outlet	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
144	SDS Circulation Pump #2 Check	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
145	Sds Circulation Pump #2 Inlet	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
146	SDS Circulation Pump #2 Outlet	6/30/2009	$17,633	$6,465	$11,168	8,570	$20,532	$13,004
163	Blower 10 LCP	6/30/2009	$39,840	$7,304	$32,536	8,570	$46,390	$37,885
166	SD #2 Radar Level Indicator	6/30/2009	$0	$0	$0	8,570	$0	$0
174	Process Piping	6/30/2009	$57,463	$7,901	$49,562	8,570	$66,911	$57,711
176	Auto Strainer LCP	6/30/2009	$29,917	$8,227	$21,690	8,570	$34,836	$25,256
179	Aeration Basin1 Control Valve	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
180	Aeration Basin2 Control Valve	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
181	Aeration Basin3 Control Valve	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
182	Aeration Basin4 Control Valve	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
183	Aeration Basin5 Zone1 Control	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
184	Aeration Basin6 Zone1 Control	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
185	Basin 1 Air Conrol Valve	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
186	Basin 2 Air Conrol Valve	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
187	Basin 3 Air Control Valve	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
188	Basin 4 Air Control Valve	6/30/2009	$45,169	$8,281	$36,888	8,570	$52,596	$42,953
216	Air Flow Meter Basin5 Zone2	6/30/2009	$27,660	$10,142	$17,518	8,570	$32,208	$20,398
217	Air Flow Meter Basin6 Zone2	6/30/2009	$27,660	$10,142	$17,518	8,570	$32,208	$20,398
218	Air Flow Meter Basin6 Zone2	6/30/2009	$27,660	$10,142	$17,518	8,570	$32,208	$20,398
219	Air Flow Meter Basin6 Zone3	6/30/2009	$27,660	$10,142	$17,518	8,570	$32,208	$20,398

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220	Air Flow Meter Basin7 Zone2	6/30/2009	$27,660	$10,142	$17,518	8,570	$32,208	$20,398
221	Air Flow Meter Basin7 Zone3	6/30/2009	$27,660	$10,142	$17,518	8,570	$32,208	$20,398
223	Air Flow Meter Basin 2	6/30/2009	$27,914	$10,235	$17,679	8,570	$32,503	$20,585
224	Air Flow Meter Basin 3	6/30/2009	$27,914	$10,235	$17,679	8,570	$32,503	$20,585
225	Air Flow Meter Basin 4	6/30/2009	$27,914	$10,235	$17,679	8,570	$32,503	$20,585
226	Air Flow Meter Basin1	6/30/2009	$27,914	$10,235	$17,679	8,570	$32,503	$20,585
227	Air Flow Meter Basin5 Zone1	6/30/2009	$27,914	$10,235	$17,679	8,570	$32,503	$20,585
228	Air Flow Meter Basin6 Zone1	6/30/2009	$27,914	$10,235	$17,679	8,570	$32,503	$20,585
229	Air Flow Meter Basin7 Zone1	6/30/2009	$27,914	$10,235	$17,679	8,570	$32,503	$20,585
231	SDS Circulation Pump #1	6/30/2009	$37,410	$10,288	$27,123	8,570	$43,561	$31,582
232	SDS Circulation Pump #1 Motor	6/30/2009	$37,410	$10,288	$27,123	8,570	$43,561	$31,582
233	SDS Circulation Pump #2	6/30/2009	$37,410	$10,288	$27,123	8,570	$43,561	$31,582
234	SDS Circulation Pump #2 Motor	6/30/2009	$37,410	$10,288	$27,123	8,570	$43,561	$31,582
235	Air Flow Meter Basin5 Chan Air	6/30/2009	$28,167	$10,328	$17,839	8,570	$32,798	$20,772
236	Air Flow Meter Basin6 Chan Air	6/30/2009	$28,167	$10,328	$17,839	8,570	$32,798	$20,772
237	Air Flow Meter Basin7 Chan Air	6/30/2009	$28,167	$10,328	$17,839	8,570	$32,798	$20,772
260	RAS Valve Control Panel Clari4	6/30/2009	$17,084	$5,087	$11,996	8,570	$19,892	$13,968
270	Scrubber 6 Gas Flow Meter	6/30/2009	$30,462	$11,170	$19,293	8,570	$35,471	$22,465
271	SD #1 Level Meter	6/30/2009	$30,462	$11,170	$19,293	8,570	$35,471	$22,465
272	SD #2 Level Meter	6/30/2009	$30,462	$11,170	$19,293	8,570	$35,471	$22,465
273	SDS Circulation Flow Meter	6/30/2009	$30,462	$11,170	$19,293	8,570	$35,471	$22,465
293	Existing 480 VAC	6/30/2009	$66,485	$12,189	$54,296	8,570	$77,416	$63,223
371	4160VAC Blower Starter Sec6	6/30/2009	$95,668	$17,539	$78,129	8,570	$111,397	$90,974
404	Polymer Mixer 1	6/30/2009	$61,916	$22,199	$39,717	8,570	$72,096	$46,247
405	Polymer Mixer 2	6/30/2009	$61,916	$22,199	$39,717	8,570	$72,096	$46,247
406	Polymer Mixer 3	6/30/2009	$61,916	$22,199	$39,717	8,570	$72,096	$46,247
463	Polymer Tank 1	6/30/2009	$97,484	$26,119	$71,365	8,570	$113,512	$83,099
464	Polymer Tank 2	6/30/2009	$97,484	$26,119	$71,365	8,570	$113,512	$83,099
483	Auto Strainer	6/30/2009	$64,926	$23,806	$41,120	8,570	$75,600	$47,880
484	Auto Strainer #1	6/30/2009	$64,926	$23,806	$41,120	8,570	$75,600	$47,880
588	DO Zone1 Control Panel	6/30/2009	$79,935	$29,309	$50,625	8,570	$93,077	$58,949
691	PLC/VFD/SCADA	6/30/2009	$124,261	$34,172	$90,089	8,570	$144,690	$104,900
701	RIO 12	6/30/2009	$95,668	$35,078	$60,590	8,570	$111,397	$70,551
752	RAS Flowmeter Sec Clarif 4	6/30/2009	$63,774	$18,966	$44,808	8,570	$74,259	$52,175
753	RAS Isolation Valve SecClarf 4	6/30/2009	$63,774	$18,966	$44,808	8,570	$74,259	$52,175
983	RAS Control Valve Sec Clarif 4	6/30/2009	$115,516	$34,353	$81,163	8,570	$134,508	$94,507
1077	Blower 10	6/30/2009	$547,866	$98,688	$449,177	8,570	$637,941	$523,027
1211	PLC 8 Aeration Basin5-7 PLC	6/30/2009	$345,875	$126,821	$219,054	8,570	$402,740	$255,069
1569	Drive & Mech Sec Clarif 4	6/30/2009	$985,640	$293,198	$692,442	8,570	$1,147,690	$806,286
1909	POLYMER BLENDING UNIT 2	1/1/2010	$44,628	$25,103	$19,525	8,799	$50,613	$22,143
1910	ACTUATOR, E INLET SLIDE GATE	1/1/2010	$11,953	$3,586	$8,367	8,799	$13,556	$9,490
1918	HYPO PUMP	1/1/2010	$14,459	$3,253	$11,206	8,799	$16,398	$12,709
1919	SPARE BEARING ASSEMBLY	1/1/2010	$17,944	$8,075	$9,869	8,799	$20,351	$11,193

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
1941	SECONDARY DIGESTER CATHODIC PROTECTIC	1/1/2010	$54,713	$16,414	$38,299	8,799	$62,050	$43,435
1942	AERATION BASIN 5-7 CATHODIC PROTECTION	1/1/2010	$51,703	$15,511	$36,192	8,799	$58,636	$41,045
1943	DEGRITTER BUILDING	1/1/2010	$13,016	$3,905	$9,111	8,799	$14,761	$10,333
1963	MIX PUMP NO. 2	1/1/2010	$201,285	$60,386	$140,900	8,799	$228,279	$159,795
1964	MIX PUMP NO 2 MOTOR	1/1/2010	$78,772	$23,631	$55,140	8,799	$89,335	$62,535
1965	DIGESTER NO 2 RECIRCULATION PUMP	1/1/2010	$55,805	$16,742	$39,064	8,799	$63,289	$44,302
1966	DIGESTER NO 2 RECIRCULATION PUMP MOTC	1/1/2010	$30,631	$9,189	$21,442	8,799	$34,739	$24,317
1967	16" DEZURIK PLUG VALVE-MP DISCHARGE VA	1/1/2010	$22,419	$6,726	$15,694	8,799	$25,426	$17,798
1968	4" CHECK VALVE (RECIRC PUMP OUTLET VALV	1/1/2010	$22,419	$6,726	$15,694	8,799	$25,426	$17,798
1969	6" DEZURIK PLUG VALVE (RECIRC PUMP INLET	1/1/2010	$22,419	$6,726	$15,694	8,799	$25,426	$17,798
1970	WEST VIEWPORT BUTTERFLY VALVE	1/1/2010	$15,531	$4,659	$10,872	8,799	$17,614	$12,330
1971	EAST VIEWPORT BUTTERFLY VALVE	1/1/2010	$15,531	$4,659	$10,872	8,799	$17,614	$12,330
1974	EXHAUST FAN	1/1/2010	$18,233	$5,470	$12,763	8,799	$20,678	$14,474
1975	EXHAUST FAN MOTOR	1/1/2010	$17,152	$5,146	$12,007	8,799	$19,452	$13,617
1978	RAS FLOWMETER SEC CLARIF3	1/1/2010	$63,774	$14,349	$49,425	8,799	$72,326	$56,053
1979	RAS CONTROLVALVE SEC CLARIF 3	1/1/2010	$115,516	$25,991	$89,525	8,799	$131,007	$101,530
1980	RAS ISOLATION VALVE SEC CLARIF 3	1/1/2010	$63,774	$14,349	$49,425	8,799	$72,326	$56,053
1981	RAS VALVE CONTROL PANEL SEC CLARIF 3	1/1/2010	$17,084	$5,125	$11,959	8,799	$19,375	$13,562
1982	DRIVE AND MECH SED CLARIF 3	1/1/2010	$985,640	$221,769	$763,871	8,799	$1,117,820	$866,311
1983	RAS FLOWMETER SEC CLARIF 1	1/1/2010	$63,774	$14,349	$49,425	8,799	$72,326	$56,053
1984	RAS CONTROL VALVE SEC CLARIF 1	1/1/2010	$114,995	$25,874	$89,121	8,799	$130,416	$101,073
1985	RAS ISOLATION VALVE SEC CLARIF 1	1/1/2010	$63,774	$14,349	$49,425	8,799	$72,326	$56,053
1986	RAS VALVE CONTROL PANEL SEC CLARIF 1	1/1/2010	$17,084	$5,125	$11,959	8,799	$19,375	$13,562
1987	DRIVE AN MECH SEC CLARIF 1	1/1/2010	$1,286,504	$289,456	$997,048	8,799	$1,459,032	$1,130,758
2010	GENERATOR 7 MAIN BREAKER	1/1/2011	$13,557	$9,490	$4,067	9,070	$14,916	$4,475
2011	GBT CAKE TOTAL SOLIDS METER	1/1/2011	$24,365	$8,528	$15,837	9,070	$26,806	$17,424
2022	WEST SUPPLY FAN	1/1/2011	$49,024	$8,579	$40,444	9,070	$53,937	$44,498
2023	EAST SUPPLY FAN	1/1/2011	$49,024	$8,579	$40,444	9,070	$53,937	$44,498
2031	ODOR DISPERSION WALL	1/1/2011	$720,789	$100,911	$619,879	9,070	$793,027	$682,004
2038	STACK 14 MODIFICATION	1/1/2011	$20,012	$2,802	$17,210	9,070	$22,018	$18,935
2042	STACK 18 MODIFICATION	1/1/2011	$20,012	$2,802	$17,210	9,070	$22,018	$18,935
2088	CLARIFIER 5 COATING	1/1/2011	$22,232	$3,891	$18,341	9,070	$24,460	$20,179
2089	CLARIFIER 6 COATING	1/1/2011	$22,232	$3,891	$18,341	9,070	$24,460	$20,179
2223	LIFT PUMP 5	1/1/2011	$295,866	$51,775	$244,091	9,070	$325,518	$268,554
2224	LIFT PUMP 6	1/1/2011	$295,854	$51,774	$244,079	9,070	$325,504	$268,541
2225	LIFT PUMP 7	1/1/2011	$295,854	$51,774	$244,079	9,070	$325,504	$268,541
2226	LIFT PUMP 8	1/1/2011	$295,854	$51,774	$244,079	9,070	$325,504	$268,541
2250	PRIMARY DIGESTER #1 DOME COATING	6/30/2012	$124,021	$15,503	$108,518	9,308	$132,961	$116,341
2276	MCC-3 MAIN BREAKER	6/30/2012	$15,231	$1,269	$13,962	9,308	$16,329	$14,969
2287	DP-1 MAIN PANEL	6/30/2012	$61,320	$5,110	$56,210	9,308	$65,740	$60,262
2288	DP-1 PULL BOX	6/30/2012	$18,410	$1,534	$16,876	9,308	$19,737	$18,092
2318	SD #1 RADAR LEVEL INDICATOR	1/1/2013	$0	$0	$0	9,547	$0	$0
2319	GRIT HOPPER	1/1/2013	$122,547	$9,191	$113,356	9,547	$128,092	$118,485

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
2322	PRIMARY DIGESTER #4 DOME COATING	1/1/2013	$176,245	$26,437	$149,808	9,547	$184,220	$156,587
2323	SWGR-1 ENCLOSURE	1/1/2013	$602,939	$30,147	$572,792	9,547	$630,222	$598,711
2324	480V SWGR-1	1/1/2013	$544,637	$27,232	$517,405	9,547	$569,282	$540,818
2325	208/120V LIGHTING PANEL	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2326	"B" BUSS TVSS DISPLAY & UPS-SWGR-1	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2327	MAIN BREAKER - MAIN FEEDER TO "B" BUSS	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2328	AUXILIARY	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2329	TR-LP-1 FEEDER BREAKER	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2330	750KW DIESEL GEN FEEDER BREAKER - GENEF	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2331	AUXILIARY	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2332	DP-21 FEEDER BREAKER - PAINT SHOP FEEDEI	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2333	SWB-5 FEEDER BREAKER - ALVARADO PS	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2334	750KW DIESEL GEN FEEDER BREAKER - GENEF	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2335	535KW GAS GEN FEEDER BREAKER - GENERA	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2336	MCC-27 FEEDER BREAKER - RAS PUMPS 1-4 F	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2337	MCC-10 FEEDER BREAKER - GENERATOR ROO	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2338	MCC-13 FEEDER BREAKER - AERATION 1-4 FEI	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2339	MCC-7 & 17 FEEDER BREAKER - HEAT/MIX 1&	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2340	PLC-SWGR-1	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2341	TIE BREAKER	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2342	AUXILIARY	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2343	MCC-6 FEEDER BREAKER - THICKENER CONTR	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2344	MCC-1 FEEDER BREAKER - WEST PRIMARY 1-4	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2345	MCC-3 FEEDER BREAKER - SLUDGE PUMP RO(	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2346	MCC-5 FEEDER BREAKER - RECLAIMED WATEI	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2347	MCC-12 FEEDER BREAKER - EAST PRIMARY 58	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2348	MCC-14 FEEDER BREAKER - SLUDGE PUMP RC	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2349	MSB-4 FEEDER BREAKER - BACKUP EBDA FEEI	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2350	SPARE	1/1/2013	$22,806	$11,403	$11,403	9,547	$23,838	$11,919
2351	AUXILIARY	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2352	SPARE	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2353	SWBD-3 BACK-UP FEEDER	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2354	AUXILIARY	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2355	"A" BUSS TVSS DISPLAY & CISCO SWITCH	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2356	MAIN BREAKER - MAIN FEEDER TO BUSS	1/1/2013	$22,806	$1,140	$21,665	9,547	$23,838	$22,646
2357	12KVTO 480V TRANSFORMER (TR-1A)	1/1/2013	$162,531	$8,127	$154,404	9,547	$169,885	$161,391
2358	12KW TO 480V TRANSFORMER (TR-1B)	1/1/2013	$160,260	$8,013	$152,247	9,547	$167,512	$159,136
2359	SWGR-1 HVAC UNIT	1/1/2013	$44,503	$2,225	$42,277	9,547	$46,516	$44,190
2415	PRIMARY CLRIFIER TANK #1	1/1/2014	$1,931,480	$32,191	$1,899,289	9,672	$1,992,787	$1,959,574
2416	PRIMARY CLARIFIER #2	1/1/2014	$1,930,248	$32,171	$1,898,077	9,672	$1,991,516	$1,958,324
2417	PRIMARY CLARIFIER #3	1/1/2014	$1,930,248	$32,171	$1,898,077	9,672	$1,991,516	$1,958,324
2418	PRIMARY CLARIFIER #4	1/1/2014	$1,930,248	$32,171	$1,898,077	9,672	$1,991,516	$1,958,324
2419	PRIMARY CLARIFIER #1 CLARIFIER MECHANISI	1/1/2014	$397,093	$9,927	$387,166	9,672	$409,698	$399,455

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2420	PRIMARY CLAIFIER #2 CLARIFIER MECHANISM	1/1/2014	$397,093	$9,927	$387,166	9,672	$409,698	$399,455
2421	PRIMARY CLARIFIER #3 CLARIFIER MECHANISI	1/1/2014	$397,093	$9,927	$387,166	9,672	$409,698	$399,455
2422	PRIMARY CLARIFIER #4 CLARIFIER MECHANISI	1/1/2014	$397,093	$9,927	$387,166	9,672	$409,698	$399,455
2423	SCUM MIXER PUMP	1/1/2014	$98,591	$9,859	$88,732	9,672	$101,721	$91,549
2424	REMOTE INPUT/OUTPUT #9	1/1/2014	$63,264	$1,265	$61,999	9,672	$65,273	$63,967
2425	PRIMARY CLARIFIERS #1-4 SUPPLY FAN #1	1/1/2014	$25,295	$506	$24,789	9,672	$26,098	$25,576
2426	PRIMARY CLARIFIERS #1-4 SUPPLY FAN #2	1/1/2014	$25,295	$506	$24,789	9,672	$26,098	$25,576
2427	MCC CLARIFIERS #1 & 3 POWER MONTIORINC	1/1/2014	$21,088	$703	$20,385	9,672	$21,758	$21,032
2428	MINI POWER CENTER (MPC-1)	1/1/2014	$21,088	$703	$20,385	9,672	$21,758	$21,032
2429	SLUDGE PUMP ROOM #1 SUPPLY FAN	1/1/2014	$16,908	$338	$16,570	9,672	$17,445	$17,096
2430	HYDROGEN PEROXIDE CONTAINMENT SUMP	1/1/2014	$24,859	$621	$24,238	9,672	$25,648	$25,007
2431	SUMP PUMPS LCP	1/1/2014	$34,706	$1,735	$32,971	9,672	$35,807	$34,017
2432	MCC-22 BUCKET - CONVEYOR SELECTOR PAN	1/1/2014	$36,522	$1,217	$35,304	9,672	$37,681	$36,425
2433	PORTABLE HEADWORKS CHANNEL DRAIN SUI	1/1/2014	$40,356	$1,009	$39,347	9,672	$41,637	$40,596
2434	MCC-22 BUCKET - FEED FOR WASHER COMPA	1/1/2014	$47,713	$1,590	$46,122	9,672	$49,227	$47,586
2435	MCC-22 BUCKET - FEED FOR SCREW CONV #1	1/1/2014	$48,576	$1,214	$47,362	9,672	$50,118	$48,865
2436	MCC-SS BUCKET - FEED FOR SCREW CONV #2	1/1/2014	$48,576	$1,214	$47,362	9,672	$50,118	$48,865
2437	MANUAL TROLLEY HOIST	1/1/2014	$50,041	$1,251	$48,790	9,672	$51,629	$50,339
2438	MANUAL HOIST #1	1/1/2014	$50,041	$1,251	$48,790	9,672	$51,629	$50,339
2439	MANUAL HOIST #2	1/1/2014	$50,041	$1,251	$48,790	9,672	$51,629	$50,339
2440	MANUAL HOIST #3	1/1/2014	$50,041	$1,251	$48,790	9,672	$51,629	$50,339
2441	MANUAL HOIST #4	1/1/2014	$50,041	$1,251	$48,790	9,672	$51,629	$50,339
2442	WASHER COMPACTOR #2 LCP-A	1/1/2014	$50,899	$1,697	$49,202	9,672	$52,514	$50,764
2443	WASHER COMPACTOR #1 LCP-A	1/1/2014	$50,899	$1,697	$49,202	9,672	$52,514	$50,764
2444	WASHER COMPACTOR #1 LCP-B	1/1/2014	$50,899	$1,697	$49,202	9,672	$52,514	$50,764
2445	WASHER COMPACTOR #2 LCP-B	1/1/2014	$50,899	$1,697	$49,202	9,672	$52,514	$50,764
2446	MCC-22 BUCKET - FEED FOR WASHER COMPA	1/1/2014	$53,144	$1,329	$51,816	9,672	$54,831	$53,460
2447	WASHER COMPACTOR ROOM SUMP PUMP L(	1/1/2014	$53,269	$1,332	$51,938	9,672	$54,960	$53,586
2448	SUMP PUMP #2	1/1/2014	$53,875	$2,694	$51,181	9,672	$55,585	$52,806
2449	SUMP PUMP #1	1/1/2014	$53,875	$2,694	$51,181	9,672	$55,585	$52,806
2450	HYPO CONTAINMENT AREA SUMP PUMP	1/1/2014	$57,843	$1,446	$56,397	9,672	$59,679	$58,187
2451	HYPO CONTAINMENT AREA SUPMP PUMP LC	1/1/2014	$57,843	$1,928	$55,915	9,672	$59,679	$57,690
2452	MCC-12 BUCKET - FEED FOR HYPE CONTAINM	1/1/2014	$57,843	$1,928	$55,915	9,672	$59,679	$57,690
2453	WASHER COMPACTOR ROOM SUMP PUMP #	1/1/2014	$77,160	$1,929	$75,231	9,672	$79,609	$77,619
2454	WASHER COMPACTOR ROOM SUMP PUMP #:	1/1/2014	$77,160	$1,929	$75,231	9,672	$79,609	$77,619
2455	SLIDING DOOR WASHER COMPACTOR ROOM	1/1/2014	$97,632	$1,627	$96,005	9,672	$100,731	$99,053
2456	SLIDING DOOR BAR SCREEN ROOM	1/1/2014	$97,632	$1,627	$96,005	9,672	$100,731	$99,053
2457	BLOWER ROOM EXHAUSE FAN	1/1/2014	$107,750	$2,694	$105,056	9,672	$111,170	$108,390
2458	BLOWER ROOM SUPPLY FAN	1/1/2014	$107,750	$2,694	$105,056	9,672	$111,170	$108,390
2459	SCREW CONVEYOR LOCAL CONTROL PANEL L(	1/1/2014	$116,406	$3,880	$112,526	9,672	$120,101	$116,097
2460	SHAFTLESS SCREW CONVEYOR #2	1/1/2014	$333,953	$8,349	$325,604	9,672	$344,553	$335,939
2461	SHAFTLESS SCREW CONVEYOR #1	1/1/2014	$333,953	$8,349	$325,604	9,672	$344,553	$335,939
2462	WASHER COMPACTOR #1`	1/1/2014	$366,010	$9,150	$356,860	9,672	$377,628	$368,187

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2463	WASHER COMPACTOR #2	1/1/2014	$366,010	$9,150	$356,860	9,672	$377,628	$368,187
2464	SLIDING DOOR WASHER COMPACTOR ROOM	1/1/2014	$97,632	$1,627	$96,005	9,672	$100,731	$99,053
2465	SLIDING DOOR BAR SCREEN ROOM	1/1/2014	$57,843	$1,446	$56,397	9,672	$59,679	$58,187
2466	HYPO CONTAINMENT AREA SUMP PUMP	1/1/2014	$57,843	$1,928	$55,915	9,672	$59,679	$57,690
2467	HYPO CONTAINMENT AREA SUMP PUMP LCP	1/1/2014	$57,843	$1,928	$55,915	9,672	$59,679	$57,690
2468	MCC-12 BUCKET-FEED FOR HYPO CONT SUMI	1/1/2014	$77,160	$1,929	$75,231	9,672	$79,609	$77,619
2469	WASHER COMPACTOR ROOM SUMP PUMP #	1/1/2014	$77,160	$1,929	$75,231	9,672	$79,609	$77,619
2470	WASHER COMPACTOR ROOM SUMP PUMP #:	1/1/2014	$53,269	$1,332	$51,938	9,672	$54,960	$53,586
2471	WASHER COMPACTOR ROOM SUMP PUMP L(	1/1/2014	$53,144	$1,329	$51,816	9,672	$54,831	$53,460
2472	MCC-22 BUCKET-FEED FOR WASHER COMPA(	1/1/2014	$50,899	$1,697	$49,202	9,672	$52,514	$50,764
2473	WASHER COMPACTOR #1 LCP-B	1/1/2014	$50,899	$1,697	$49,202	9,672	$52,514	$50,764
2474	WASHER COMPACTOR #2 LCP-B	1/1/2014	$50,041	$1,251	$48,790	9,672	$51,629	$50,339
2492	PLC10	1/1/2014	$113,327	$2,833	$110,494	9,672	$116,924	$114,001
2493	PLC13	1/1/2014	$145,999	$3,650	$142,349	9,672	$150,633	$146,868
2494	PLC16	1/1/2014	$75,065	$1,877	$73,189	9,672	$77,448	$75,512
2495	RIO5	1/1/2014	$123,775	$3,094	$120,681	9,672	$127,704	$124,512
2496	RIO11	1/1/2014	$137,667	$3,442	$134,225	9,672	$142,037	$138,486
2497	RIO15	1/1/2014	$69,512	$1,738	$67,774	9,672	$71,718	$69,925
2498	MCC 12	1/1/2014	$236,534	$3,942	$232,591	9,672	$244,042	$239,974
2499	R-7 RECTIFIER, HEAT MIX 2	1/1/2014	$58,521	$1,951	$56,570	9,672	$60,378	$58,365
2505	CATHODIC PROTECTION	1/1/2014	$43,764	$1,459	$42,305	9,672	$45,153	$43,648
2506	VALVE, 16" KNIFE GATE 1	1/1/2014	$25,198	$630	$24,568	9,672	$25,998	$25,348
2507	VALVE, 16" KNIFE GATE 2	1/1/2014	$25,198	$630	$24,568	9,672	$25,998	$25,348
2508	VALVE, 16" KNIFE GATE 3	1/1/2014	$25,198	$630	$24,568	9,672	$25,998	$25,348
2509	VALVE, 16" KNIFE GATE 4	1/1/2014	$25,198	$630	$24,568	9,672	$25,998	$25,348
2510	VALVE, 16" KNIFE GATE 5	1/1/2014	$25,198	$630	$24,568	9,672	$25,998	$25,348
2511	VALVE, 16" SWING CHECK 1	1/1/2014	$22,234	$556	$21,678	9,672	$22,940	$22,366
2512	VALVE, 16" SWING CHECK 2	1/1/2014	$22,234	$556	$21,678	9,672	$22,940	$22,366
2513	VALVE, 16" SWING CHECK 3	1/1/2014	$22,234	$556	$21,678	9,672	$22,940	$22,366
2514	VALVE, 16" SWING CHECK 4	1/1/2014	$22,234	$556	$21,678	9,672	$22,940	$22,366
2515	VALVE, 16" SWING CHECK 5	1/1/2014	$22,234	$556	$21,678	9,672	$22,940	$22,366
2516	PIPING, 16" RAS PUMP 1 DISCHARGE	1/1/2014	$74,113	$1,853	$72,260	9,672	$76,465	$74,553
2517	PIPING, 16" RAS PUMP 2 DISCHARGE	1/1/2014	$74,113	$1,853	$72,260	9,672	$76,465	$74,553
2518	PIPING, 16" RAS PUMP 3 DISCHARGE	1/1/2014	$74,113	$1,853	$72,260	9,672	$76,465	$74,553
2519	PIPING, 16" RAS PUMP 4 DISCHARGE	1/1/2014	$74,113	$1,853	$72,260	9,672	$76,465	$74,553
2520	PIPING, 16" RAS PUMP 5 DISCHARGE	1/1/2014	$74,113	$1,853	$72,260	9,672	$76,465	$74,553
2521	FORCE MAIN, 42" RAS, PS TO CB	1/1/2014	$41,503	$1,038	$40,466	9,672	$42,820	$41,750
2522	SODIUM HYPOCHLORITE SYSTEM RAS PS	1/1/2014	$11,117	$556	$10,561	9,672	$11,470	$10,896
2523	FLOW METER, RAS	1/1/2014	$14,823	$494	$14,328	9,672	$15,293	$14,783
2524	THICKENER #3 MECHANISM	1/1/2014	$472,834	$11,821	$461,013	9,672	$487,842	$475,646
2525	THICKENER #4 MECHANISM	1/1/2014	$472,834	$11,821	$461,013	9,672	$487,842	$475,646
2526	THICKENER #3 TANK	1/1/2014	$460,013	$7,667	$452,346	9,672	$474,614	$466,704
2527	THICKENER #4 TANK	1/1/2014	$460,013	$7,667	$452,346	9,672	$474,614	$466,704

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Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
2532	THICKENED PRIMARY SLUDGE PUMP #7	1/1/2014	$147,371	$3,684	$143,687	9,672	$152,049	$148,248
2533	THICKENED PRIMARY SLUDGE PUMP #6	1/1/2014	$147,371	$3,684	$143,687	9,672	$152,049	$148,248
2534	THICKENED PRIMARY SLUDGE PUMP #5	1/1/2014	$147,371	$3,684	$143,687	9,672	$152,049	$148,248
2536	THICKENED PRIMARY SLUDGE FLOWMETER 2	1/1/2014	$44,177	$1,473	$42,704	9,672	$45,579	$44,060
2537	THICKENED PRIMARY SLUDGE FLOWMETER 3	1/1/2014	$44,177	$1,473	$42,704	9,672	$45,579	$44,060
2538	THICKENED PRIMARY SLUDGE PUMP 7 VFD	1/1/2014	$28,273	$942	$27,331	9,672	$29,171	$28,198
2539	THICKENED PRIMARY SLUDGE PUMP 6 VFD	1/1/2014	$28,273	$942	$27,331	9,672	$29,171	$28,198
2540	THICKENED PRIMARY SLUDGE PUMP 5 VFD	1/1/2014	$28,273	$942	$27,331	9,672	$29,171	$28,198
2541	RELOCATED GRINDER LOCAL CONTROL PANEI	1/1/2014	$27,831	$928	$26,904	9,672	$28,715	$27,758
2542	RELOCATED GRINDER LOCAL CONTROL PANEI	1/1/2014	$27,831	$928	$26,904	9,672	$28,715	$27,758
2543	RELOCATED GRINDER 4	1/1/2014	$22,088	$552	$21,536	9,672	$22,790	$22,220
2544	RELOCATED GRINDER 3	1/1/2014	$22,088	$552	$21,536	9,672	$22,790	$22,220
2545	THICKENED PRIM SLDG PUMP 7 PWR FEEDER	1/1/2014	$14,843	$495	$14,349	9,672	$15,315	$14,804
2546	THICKENED PRIM SLDG PUMP 6 PWR FEEDER	1/1/2014	$14,843	$495	$14,349	9,672	$15,315	$14,804
2547	THICKENED PRIM SLDG PUMP 5 PWR FEEDER	1/1/2014	$14,843	$495	$14,349	9,672	$15,315	$14,804
2548	THICKENED SLDG GRINDER 4 BREAKER	1/1/2014	$14,843	$495	$14,349	9,672	$15,315	$14,804
2549	THICKENED SLDG GRINDER 3 BREAKER	1/1/2014	$14,843	$495	$14,349	9,672	$15,315	$14,804
2623	LIFT PUMP 1	1/1/2014	$95,673	$1,595	$94,079	9,672	$98,710	$97,065
2624	LIFT PUMP 2	1/1/2014	$95,673	$1,595	$94,079	9,672	$98,710	$97,065
2625	LIFT PUMP 3	1/1/2014	$95,673	$1,595	$94,079	9,672	$98,710	$97,065
2626	LIFT PUMP 4	1/1/2014	$102,884	$1,715	$101,169	9,672	$106,149	$104,380
2627	GEAR BOX 1	1/1/2014	$84,586	$1,410	$83,176	9,672	$87,270	$85,816
2628	GEAR BOX 2	1/1/2014	$84,586	$1,410	$83,176	9,672	$87,270	$85,816
2629	GEAR BOX 3	1/1/2014	$84,586	$1,410	$83,176	9,672	$87,270	$85,816
2630	GEAR BOX 4	1/1/2014	$84,586	$1,410	$83,176	9,672	$87,270	$85,816
2632	AERATION BASIN 1	1/1/2014	$112,829	$1,880	$110,949	9,672	$116,411	$114,470
2633	AERATION BASIN 2	1/1/2014	$112,829	$1,880	$110,949	9,672	$116,411	$114,470
2634	AERATION BASIN 3	1/1/2014	$112,829	$1,880	$110,949	9,672	$116,411	$114,470
2635	AERATION BASIN 4	1/1/2014	$112,829	$1,880	$110,949	9,672	$116,410	$114,470
2642	MCC 15 MAIN BREAKER	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2643	MCC15 PANEL BOARD B	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2644	MCC15 SUMP PUMPS	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2645	MCC15 PANEL BOARD C	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2646	MCC15 DRYWELL HOIST 2ND FLOOR	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2647	MCC15 WELDING RECEPTACLE	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2648	MCC15 PANEL BOARD S	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2649	MCC15 CHLORINE SAMPLE PUMP 6	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2650	MCC15 CHLORINE SAMPLE PUMP 7	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2651	MCC15 ALVARADO PS HEADGATE	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2652	MCC15 AIR COMPERSSOR 1	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2653	MCC15 AIR COMPERSSOR 2	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2654	MCC15 SUPPLY FAN 1	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2655	MCC15 EQUIPMENT ROOM HOIST	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289

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2656	MCC15 ACCESSORY HOIST	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2657	MCC15 ALVARADO DIVERSION HYDRAULIC UI	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2658	MCC15 SCRUBBER SUPPLY FAN	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2659	MCC15 SCRUBBER EXHAUSE FAN	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2660	MCC15 CHLORINE ANALYZER SHED	1/1/2014	$12,113	$202	$11,911	9,672	$12,498	$12,289
2661	MCC13 MAIN BREAKER	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2662	MCC13 WELDING RECEPTACLE	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2663	MCC13 CHANNEL MIXING BLOWER 1	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2664	MCC13 CHANNEL MIXING BLOWER 2	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2665	MCC13 CHANNEL MIXING BLOWER 3	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2666	MCC13 CHANNEL MIXING BLOWER 4	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2667	MCC13 PANEL Q	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2668	MCC13 ROLL UP DOOR	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2669	MCC13 SCRUBBER EXHAUST FAN	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2670	MCC13 AERATION TANK ACTUATOR 1	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2671	MCC13 AERATION TANK ACTUATOR 2	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2672	MCC13 AERATION TANK ACTUATOR 3	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2673	MCC13 AERATION TANK ACTUATOR 4	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2674	MCC13 VENTILATION FAN	1/1/2014	$14,878	$248	$14,630	9,672	$15,350	$15,094
2675	MCC14 MAIN BREAKER	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2676	MCC14 WELDING RECEPTACLE	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2677	MCC14 PANEL BOARD R	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2678	MCC14 LIFT PUMP 1	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2679	MCC14 LIFT PUMP 2	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2680	MCC14 LIFT PUMP 3	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2681	MCC14 LIFT PUMP 4	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2682	MCC14 SECONDARY CLARIFIER DRIVE 5	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2683	MCC14 SECONDARY CLARIFIER DRIVE 6	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2684	MCC14 SCUM PUMP 7	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2685	MCC14 SCUM PUMP 7	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2686	MCC14 DEWATERING PUMP	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2687	MCC14 EXHAUST FAN E-18	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2688	MCC14 VENT FAN EF-9	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2689	MCC14 PANEL AH	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2690	MCC14 RAS BOX GATE PANEL	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2691	MCC14 SCRUBBER EXHAUST FAN	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2692	MCC14 WAS PUMP 1	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2693	MCC14 WAS PUMP 2	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2694	MCC14 WAS PUMP 3	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2695	MCC14 RAS PUMP 5	1/1/2014	$13,113	$219	$12,895	9,672	$13,530	$13,304
2696	MCC27 MAIN BREAKER	1/1/2014	$47,400	$790	$46,610	9,672	$48,904	$48,089
2697	MCC27 RAS PUMP 1	1/1/2014	$47,400	$790	$46,610	9,672	$48,904	$48,089
2698	MCC27 RAS PUMP 2	1/1/2014	$47,400	$790	$46,610	9,672	$48,904	$48,089

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2699	MCC27 RAS PUMP 3	1/1/2014	$47,400	$790	$46,610	9,672	$48,904	$48,089
2700	MCC27 RAS PUMP 4	1/1/2014	$47,400	$790	$46,610	9,672	$48,904	$48,089
Subtotal Treatment Plant			**$157,562,129**	**$77,870,321**	**$79,691,808**		**$274,352,929**	**$120,337,824**
TWIN-FORCE								
1600	Irvington Surge Tower & Lining	12/31/1979	$89,235	$76,965	$12,270	3,003	$296,528.83	$40,773
1884	Non Structural Costs - Enginee	12/31/1979	$3,282,841	$2,831,450	$451,391	3,003	$10,908,915	$1,499,976
1897	39 Inch Force Mains 26171 Ft	12/31/1979	$8,615,830	$7,431,153	$1,184,677	3,003	$28,630,492	$3,936,693
1899	33 Inch Force Mains 40514 Ft	12/31/1979	$11,382,939	$9,817,785	$1,565,154	3,003	$37,825,623.80	$5,201,023
1255	Cath Protec TF Main Casing 02	6/30/2005	$28,706	$27,270	$1,435	7,446	$38,471	$1,924
1256	Cath Protec TF Main Casing 05	6/30/2005	$28,706	$27,270	$1,435	7,446	$38,471	$1,924
2241	WEST FORCEMAIN HEADWORKS INFLUENT V/	6/30/2012	$20,429	$5,107	$15,322	9,308	$21,902	$16,426
2360	FERROUS CHEMICAL PIPING TO VALVE BOX	1/1/2013	$20,000	$1,000	$19,000	9,547	$20,905	$19,860
2361	FLOW METER, LOWER DISCHARGE HEADER	1/1/2013	$40,000	$2,000	$38,000	9,547	$41,810	$39,719
2362	FORCE MAIN VALVE V17	1/1/2013	$40,000	$2,000	$38,000	9,547	$41,810	$39,719
2363	FORCE MAIN VALVE V15`	1/1/2013	$10,000	$750	$9,250	9,547	$10,452	$9,669
2364	FORCE MAIN VALVE V19	1/1/2013	$10,000	$750	$9,250	9,547	$10,452	$9,669
2365	FORCE MAIN VALVE V7	1/1/2013	$10,000	$750	$9,250	9,547	$10,452	$9,669
2366	FORCE MAIN VALVE V9	1/1/2013	$15,000	$1,125	$13,875	9,547	$15,679	$14,503
2367	FORCE MAIN VALVE V11	1/1/2013	$15,000	$1,125	$13,875	9,547	$15,679	$14,503
2368	FORCE MAIN VALVE V13	1/1/2013	$10,000	$750	$9,250	9,547	$10,452	$9,669
2369	FORCE MAIN VALVE V18	1/1/2013	$40,000	$3,000	$37,000	9,547	$41,810	$38,674
2370	FORCE MAIN VALVE V16	1/1/2013	$10,000	$750	$9,250	9,547	$10,452	$9,669
2371	FORCE MAIN VALVE V8	1/1/2013	$10,000	$750	$9,250	9,547	$10,452	$9,669
2372	FORCE MAIN VALVE V10	1/1/2013	$15,000	$1,125	$13,875	9,547	$15,679	$14,503
2373	FORCE MAIN VALVE V12	1/1/2013	$15,000	$1,125	$13,875	9,547	$15,679	$14,503
2374	FORCE MAIN VALVE V5	1/1/2013	$40,000	$2,000	$38,000	9,547	$41,810	$39,719
2375	FORCE MAIN VALVE V6	1/1/2013	$40,000	$2,000	$38,000	9,547	$41,810	$39,719
Subtotal Twin Force			**$23,788,686**	**$20,238,002**	**$3,550,684**		**$78,115,788**	**$11,032,173**
VEHICLES								
1604	1986 GMC Winch Truck E492563	1/1/1988	$66,710	$66,710	$0	4,519	$147,311	$0
1287	1990 GMC 3/4 Ton Chasis/Cab E2	12/31/1990	$14,189	$14,189	$0	4,732	$29,922	$0
1612	1993 Ford Knuckle Boom Truck E	12/31/1992	$69,698	$69,698	$0	4,985	$139,522	$0
1345	1997 Ford Ranger E036764	12/31/1995	$16,555	$16,555	$0	5,471	$30,196	$0
1421	1997 GMC Truck E369190	12/31/1996	$21,381	$21,381	$0	5,620	$37,965	$0
1656	1997 Ford CF7000 Truck E036770	12/31/1996	$97,686	$97,686	$0	5,620	$173,453	$0
1341	1999 GMC Sonoma X-Cab S15 E100	12/31/1998	$16,551	$16,551	$0	5,920	$27,899	$0
1343	1999 GMC Sonoma X-Cab S15 E989	12/31/1998	$16,551	$16,551	$0	5,920	$27,899	$0
1377	1999 Ford F150 1/2 ton PU E989	12/31/1998	$18,884	$18,884	$0	5,920	$31,832	$0
1389	1999 Ford F250 3/4 ton w/Lift	12/31/1998	$0	$0	$0	5,920	$0	$0
1390	1999 Dodge Dakota 4x4 Truck E1	12/31/1998	$0	$0	$0	5,920	$0	$0
1395	1999 Chevy Astro Van E989528	12/31/1998	$20,419	$20,419	$0	5,920	$34,419	$0

Union Sanitary District
Fixed Asset Valuation
Based on Fixed Asset Schedule dated 6/30/14

ENR-CCI 20-Cities, May 2015: 9,979

Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
1252	2000 Chevrolet Cavalier E10363	12/31/1999	$12,890	$12,890	$0	6,059	$21,229	$0
1331	1999 GMC Sonoma PU E1036305 #	12/31/1999	$16,177	$16,177	$0	6,059	$26,643	$0
1319	2001 Dodge Truck Dakota E10562	12/31/2000	$15,820	$15,820	$0	6,221	$25,376	$0
1514	2001 Ford Truck 1 ton w/crane	12/31/2000	$42,098	$42,098	$0	6,221	$67,528	$0
1536	Truck #22 Modifications	12/31/2000	$43,902	$43,902	$0	6,221	$70,422	$0
1578	2001 Sterling Dump Truck E1073	12/31/2000	$95,280	$95,280	$0	6,221	$152,838	$0
1614	2000 Ford F550 w/air comp E106	12/31/2000	$102,779	$102,779	$0	6,221	$164,866	$0
1615	2000 Ford Truck F550 w/air com	12/31/2000	$103,064	$103,064	$0	6,221	$165,323	$0
1685	2001 Ford TV Inspection Van E1	12/31/2000	$142,215	$142,215	$0	6,221	$228,124	$0
1725	2001 Sterling Vactor Truck E10	12/31/2000	$252,758	$252,758	$0	6,221	$405,446	$0
1381	2002 Chevrolet Silverado C1500	12/31/2001	$20,574	$20,574	$0	6,343	$32,368	$0
1425	2002 Toyota Prius E1130279	12/31/2001	$23,087	$23,087	$0	6,343	$36,321	$0
1426	2002 Toyota Prius E1130278	12/31/2001	$23,087	$23,087	$0	6,343	$36,321	$0
1427	2002 Toyota Prius E1130280	12/31/2001	$23,087	$23,087	$0	6,343	$36,321	$0
1428	2002 Toyota Prius E1130281	12/31/2001	$23,087	$23,087	$0	6,343	$36,321	$0
1476	2002 Ford F350 1 Ton	12/31/2001	$43,937	$43,937	$0	6,343	$69,122	$0
1477	2002 Ford F350 1 Ton	12/31/2001	$43,937	$43,937	$0	6,343	$69,122	$0
1650	2002 Ford TV Van E-450 E113925	12/31/2002	$0	$0	$0	6,538	$0	$0
1147	2004 Dodge Dakota #256	5/13/2004	$13,757	$13,757	$0	7,115	$19,295	$0
1303	2004 Toyota Prius #257	5/13/2004	$21,575	$21,575	$0	7,115	$30,260	$0
839	2005 Dodge Ram 1500 Quad 4x4	4/19/2005	$19,585	$9,303	$10,282	7,446	$26,247	$13,780
1544	2005 Sterling National Crane	5/1/2005	$149,427	$94,637	$54,790	7,446	$200,260	$73,429
1348	2005 Chev 1 Ton w Serv/Crane	5/12/2005	$36,992	$35,142	$1,850	7,446	$49,576	$2,479
1175	2005 Dodge 3/4 Ton Quad	5/18/2005	$22,836	$21,695	$1,142	7,446	$30,605	$1,530
1176	2005 Dodge 3/4 Ton Quad	5/18/2005	$22,836	$21,695	$1,142	7,446	$30,605	$1,530
1197	2005 Dodge 3/4 Ton Serv Body	5/25/2005	$25,164	$23,906	$1,258	7,446	$33,724	$1,686
1271	2005 Honda Civic Hybrid	6/1/2005	$23,564	$23,564	$0	7,446	$31,581	$0
1272	2005 Honda Civic Hybrid	6/1/2005	$23,564	$23,564	$0	7,446	$31,581	$0
1273	2005 Honda Civic Hybrid	6/1/2005	$23,564	$23,564	$0	7,446	$31,581	$0
1430	2005 Sterling Tank Truck	6/7/2005	$73,251	$46,392	$26,859	7,446	$98,170	$35,996
1109	2006 Chev Colorado Pickup	6/30/2006	$15,392	$15,392	$0	7,751	$19,816	$0
1110	2006 Chev Colorado Pickup	6/30/2006	$0	$0	$0	7,751	$0	$0
1609	Vactor Combo Jet Rodder	12/14/2006	$329,907	$206,192	$123,715	7,751	$424,738	$159,277
924	2007 Chevy Colorado #305	5/1/2007	$17,637	$16,535	$1,102	7,966	$22,094	$1,381
936	2007 Chevy Colorado #303	5/1/2007	$18,089	$16,958	$1,131	7,966	$22,660	$1,416
952	2007 Chevy Colorado #306	5/1/2007	$19,083	$17,890	$1,193	7,966	$23,905	$1,494
959	2007 Chevy Colorado #309	5/1/2007	$19,350	$18,140	$1,209	7,966	$24,239	$1,515
968	2007 Chevy Colorado #304	5/1/2007	$19,722	$18,489	$1,233	7,966	$24,705	$1,544
876	Gem Electric Cart	6/1/2007	$16,155	$16,155	$0	7,966	$20,237	$0
462	Particulate Matter Filter#99	6/30/2008	$15,149	$9,792	$5,356	8,310	$18,191	$6,432
724	1989 GMC Winch Truck	6/30/2008	$27,188	$14,727	$12,461	8,310	$32,648	$14,964
896	2008 Chevy Silverado 3500	6/30/2008	$34,884	$22,662	$12,222	8,310	$41,890	$14,677
897	2008 Chevy Siverado 3500	6/30/2008	$34,884	$22,662	$12,222	8,310	$41,890	$14,677

Union Sanitary District
Fixed Asset Valuation
Based on Fixed Asset Schedule dated 6/30/14

ENR-CCI 20-Cities, May 2015:	9,979

Asset #	Description	Acquisition Date	Acquisition Cost	Depreciation as of 6/30/14	Book Value 6/30/14	ENR CCI Original	ENR-Adjusted Acquisition Cost	ENR-Adjusted Book Value
898	2008 Chevy Siverado 3500	6/30/2008	$34,884	$22,662	$12,222	8,310	$41,890	$14,677
207	2009 Chevy Colorado	6/30/2009	$17,602	$9,674	$7,928	8,570	$20,496	$9,232
238	Gem Cart Blue	6/30/2009	$13,163	$10,342	$2,821	8,570	$15,327	$3,284
239	Gem Cart Green	6/30/2009	$13,163	$10,342	$2,821	8,570	$15,327	$3,284
240	Gem Cart Red	6/30/2009	$13,163	$10,342	$2,821	8,570	$15,327	$3,284
241	Gem Cart White	6/30/2009	$13,163	$10,342	$2,821	8,570	$15,327	$3,284
257	Gem Cart Silver	6/30/2009	$13,299	$10,449	$2,850	8,570	$15,485	$3,318
292	2009 Dodge Grand Caravan	6/30/2009	$22,104	$12,157	$9,947	8,570	$25,738	$11,582
298	2009 Dodge Dakota	6/30/2009	$22,931	$12,603	$10,328	8,570	$26,701	$12,026
312	2009 Chevy Colorado 4WD	6/30/2009	$24,782	$13,620	$11,162	8,570	$28,856	$12,997
330	2009 Chevy Colorado	6/30/2009	$27,358	$15,036	$12,322	8,570	$31,856	$14,348
440	2009 Chevy Silverado 3500	6/30/2009	$41,008	$22,532	$18,477	8,570	$47,750	$21,514
852	2009 Sterling Dump Truck	6/30/2009	$138,068	$50,625	$87,443	8,570	$160,768	$101,820
1913	1986 GMC WINCH TRUCK - ADDITION	1/1/2010	$32,330	$16,165	$16,165	8,799	$36,666	$18,333
1915	INTERNATIONAL VACTOR RAMJET	1/1/2010	$255,338	$95,752	$159,587	8,799	$289,581	$180,988
1916	VIBRATORY ROLLER	1/1/2010	$38,320	$17,244	$21,076	8,799	$43,459	$23,902
1927	GEM CART, WHITE	1/1/2010	$15,147	$9,737	$5,410	8,799	$17,178	$6,135
1928	GEM CART, BLUE	1/1/2010	$14,439	$9,282	$5,157	8,799	$16,376	$5,848
1996	CAT BACKHOE	1/1/2011	$100,568	$23,466	$77,102	9,070	$110,647	$84,829
1997	TV VAN	1/1/2011	$251,626	$88,069	$163,557	9,070	$276,844	$179,949
2008	2011 FORD F-250	1/1/2011	$44,389	$15,536	$28,853	9,070	$48,838	$31,744
2009	2011 FORD F-250	1/1/2011	$31,637	$11,073	$20,564	9,070	$34,808	$22,625
2014	2011 FORD F-350	1/1/2011	$43,228	$15,130	$28,098	9,070	$47,561	$30,914
2015	2011 FORD F350	1/1/2011	$43,228	$15,130	$28,098	9,070	$47,561	$30,914
2234	2011 CAT 420E BACKHOE	6/30/2012	$106,445	$17,741	$88,704	9,308	$114,118	$95,098
2236	2011 DODGE GRAND CARAVAN	6/30/2012	$22,756	$5,689	$17,067	9,308	$24,397	$18,297
2237	2011 DODGE GRAND CARAVAN	6/30/2012	$20,559	$5,140	$15,419	9,308	$22,041	$16,531
2242	2012 CHEVY COLORADO 4WD	6/30/2012	$31,271	$8,686	$22,584	9,308	$33,525	$24,212
2314	2012 TV VAN FORD F550	11/1/2012	$282,958	$42,444	$240,514	9,308	$303,355	$257,852
2315	2012 TV VAN FORD F550	11/1/2012	$282,958	$42,444	$240,514	9,308	$303,355	$257,852
2402	2013 CHEVY SILVERADO 1T	1/1/2014	$44,386	$2,219	$42,167	9,672	$45,795	$43,505
2403	2013 TOYOTA TACOMA	1/1/2014	$27,705	$1,259	$26,445	9,672	$28,584	$27,285
2405	2013 CHEVY SILVERADO 1T	1/1/2014	$44,386	$2,219	$42,167	9,672	$45,795	$43,505
2406	2013 CHEVY SILVERADO 1T	1/1/2014	$44,386	$2,219	$42,167	9,672	$45,795	$43,505
2407	2013 CHEVY SILVERADO 1T	1/1/2014	$44,386	$2,219	$42,167	9,672	$45,795	$43,505
2408	2013 CHEVY SILVERADO 1T	1/1/2014	$44,386	$2,219	$42,167	9,672	$45,795	$43,505
2409	2014 FREIGHTLINER VACTOR COMBO UNIT	1/1/2014	$454,772	$18,949	$435,823	9,672	$469,207	$449,657
2411	2014 FORD TRANSIT CONNECT	1/1/2014	$24,664	$1,542	$23,123	9,672	$25,447	$23,857
Subtotal Vehicles			**$5,150,913**	**$2,823,090**	**$2,327,823**		**$6,637,980**	**$2,566,809**
TOTAL ALL ASSETS			**$644,531,006**	**$332,555,009**	**$311,704,985**		**$1,843,590,086**	**$502,246,902**

APPENDIX D

East Bay Dischargers Authority
Fixed Asset List & Valuation

Union Sanitary District
EBDA Fixed Asset Valuation as of May 2015

Asset Class	Description	AssetID	Parent ID	Asset Class ID	Location	Replacement Cost	Estimate Renewal Year	Installation Year
Analyzer	Chlorine Residual analyzer No. 1	DIRA01	DECHL-MDF-BLDG1-INST	ANL	MARINA DECHLORINATION STATION	$ 15,000	2015	1981
Analyzer	Chlorine Residual analyzer No. 2	DIRA02	DECHL-MDF-BLDG1-INST	ANL	MARINA DECHLORINATION STATION	$ 15,000	2015	1981
Analyzer	Chlorine Residual analyzer No. 3	DIRA03	DECHL-MDF-BLDG1-INST	ANL	MARINA DECHLORINATION STATION	$ 15,000	2015	1981
Analyzer	MDF Micro-2000 Chlorine Analyzer	DIRA02A	DECHL-MDF-BLDG1-INST	ANL	MARINA DECHLORINATION STATION	$ 10,000	2016	2003
Air Relief Valve	A-H BLOWOFF KEY R STA 261+25	FVARAR	FM-SR-AH-V	ARV	FORCE MAIN - ALVARADO TO HAYWARD	$ 4,000		2010
Air Relief Valve	A-H BLOWOFF KEY T STA 276+05	FVARAT	FM-SR-AH-V	ARV	FORCE MAIN - ALVARADO TO HAYWARD	$ 4,000		2010
Air Relief Valve	H-A A/V VALVE KEY F STA 91+40	FVAVAF	FM-SR-AH-V	ARV	FORCE MAIN - ALVARADO TO HAYWARD	$ 4,000		2010
Air Relief Valve	H-A A/V VALVE KEY H STA 127+33	FVAVAH	FM-SR-AH-V	ARV	FORCE MAIN - ALVARADO TO HAYWARD	$ 4,000		2009
Air Relief Valve	H-A A/V VALVE KEY M STA 209+87	FVAVAM	FM-SR-AH-V	ARV	FORCE MAIN - ALVARADO TO HAYWARD	$ 4,000		2007
Air Relief Valve	H-A A/V VALVE KEY P STA 249+19	FVAVAP	FM-SR-AH-V	ARV	FORCE MAIN - ALVARADO TO HAYWARD	$ 4,000		2005
Air Relief Valve	H-A A/V VALVE KEY S STA 268+94	FVAVAS	FM-SR-AH-V	ARV	FORCE MAIN - ALVARADO TO HAYWARD	$ 4,000		2005
Air Relief Valve	O-H A/V VALVE KEY E STA 62+45	FVAVHE	FM-SR-HO-V	ARV	FORCE MAIN - HAYWARD TO ORO LOMA	$ 4,000		2008
Air Relief Valve	O-H A/V VALVE KEY G STA 87+25	FVAVHG	FM-SR-HO-V	ARV	FORCE MAIN - HAYWARD TO ORO LOMA	$ 4,000		1993
Air Relief Valve	O-H A/V VALVE KEY D STA 55+55	FVAVOD	FM-SR-HO-V	ARV	FORCE MAIN - HAYWARD TO ORO LOMA	$ 4,000		1993
Air Relief Valve	M-O A/V VALVE KEY A STA 1+00	FVAVSA	FM-NR-OM-V	ARV	FORCE MAIN - ORO LOMA TO MDF	$ 4,000		1998
Air Relief Valve	M-O A/V VALVE KEY B STA 20+00	FVAVSB	FM-NR-OM-V	ARV	FORCE MAIN - ORO LOMA TO MDF	$ 4,000		2010
Air Relief Valve	M-O A/V VALVE KEY E STA 60+00	FVAVSE	FM-NR-OM-V	ARV	FORCE MAIN - ORO LOMA TO MDF	$ 4,000		2000
Air Relief Valve	M-O A/V VALVE KEY F STA 71+00	FVAVSF	FM-NR-OM-V	ARV	FORCE MAIN - ORO LOMA TO MDF	$ 4,000		2004
Air Relief Valve	M-O A/V VALVE KEY G STA 85+62	FVAVSG	FM-NR-OM-V	ARV	FORCE MAIN - ORO LOMA TO MDF	$ 4,000		2004
Air Relief Valve	S-M A/V VALVE KEY H STA 77+54	FVAVSH	FM-NR-SM-V	ARV	FORCE MAIN - SAN LEANDRO TO MDF	$ 4,000		1981
Air Relief Valve	S-M A/V VALVE KEY K STA 88+62	FVAVSK	FM-NR-SM-V	ARV	FORCE MAIN - SAN LEANDRO TO MDF	$ 4,000		1981
Air Relief Valve	MDF Meter Vault STA 1+29, Aquadyne	FVAVSM	FM-NR-OF	ARV	FORCE MAIN - OUTFALL	$ 4,000		1998
Air Relief Valve	S-M, AIR RELIEF VALVE KEY B STA 1+26	FVARSB	FM-NR-SM-V	ARV	FORCE MAIN - SAN LEANDRO TO MDF	$ 4,000		1981
Air Relief Valve	S-M, AIR RELIEF VALVE KEY C STA 3+15	FVARSC	FM-NR-SM-V	ARV	FORCE MAIN - SAN LEANDRO TO MDF	$ 4,000		1981
Air Relief Valve	S-M Vacuum Valve (MDF): KEY K STA 20+00	FVARSK	FM-NR-SM-V	ARV	FORCE MAIN - SAN LEANDRO TO MDF	$ 4,000		1999
Air Relief Valve	Meter vault air relief assembly	FVAVOA	FM-NR-OM	ARV	FORCE MAIN - ORO LOMA TO MDF	$ 4,000		2007
Air Relief Valve	Air valve at station (MDF) 13+56	FVAVSO	FM-NR-SM-V	ARV	FORCE MAIN - SAN LEANDRO TO MDF	$ 4,000		2002
Air Relief Valve	AIR/VACUUM VALVE - KEY D STA 13+56	FVAVSDA	FM-NR-SM-V	ARV	FORCE MAIN - SAN LEANDRO TO MDF	$ 4,000		1998
Air Relief Valve	S-M Vent-O-Mat air/vac valve STA: 60+00	FVAVSEA	FM-NR-SM-V	ARV	FORCE MAIN - SAN LEANDRO TO MDF	$ 8,000		2000
Air Relief Valve	M-O A/V Valve key F Sta: 71+00	FVAVSF1A	FM-NR-OF-V	ARV	FORCE MAIN - OUTFALL	$ 4,000		2004
Air Relief Valve	AIR/VACUUM VALVE - KEY F STA 36 + 56	FVAVSFA	FM-NR-SM-V	ARV	FORCE MAIN - SAN LEANDRO TO MDF	$ 4,000		1998
Automatic Valve Actuator	AUTOMATIC VALVE OPERATOR	AVVO01	PS-ALV-FAC	AVA	ALVARADO EFFLUENT PUMP STATION	$ 10,364		2002
Automatic Valve Actuator	EFF PUMP NO. 4 VALVE ACTUATOR	HVVA04	PS-HAY-PU4	AVA	HAYWARD PUMP STATION	$ 7,120	2018	1994
Automatic Valve Actuator	EFF PUMP NO. 2 VALVE ACTUATOR	HVVA02	PS-HAY-PU2	AVA	HAYWARD PUMP STATION	$ 7,120	2018	1994
Automatic Valve Actuator	Automatic Valve Operator No. 1	OVVO01	PS-ORO-WW	AVA	ORO LOMA PUMP STATION	$ 4,975	2021	1981
Automatic Valve Actuator	Automatic Valve Operator No. 2	OVVO02	PS-ORO-WW	AVA	ORO LOMA PUMP STATION	$ 4,975	2021	1981
Automatic Valve Actuator	Automatic Valve Operator No. 3	OVVO03	PS-ORO-WW	AVA	ORO LOMA PUMP STATION	$ 4,975	2021	1996
Automatic Valve Actuator	Automatic Valve Operator No. 4	OVVO04	PS-ORO-WW	AVA	ORO LOMA PUMP STATION	$ 4,975	2021	1996
Automatic Valve Actuator	Valve Actuator	WVVO01	FM-SR-SW-V	AVA	SKY WEST PUMP STATION	$ 3,190	2017	1983
Automatic Valve Actuator	Oxidation Pond Valve Actuator	SVVO01	PS-SL-FAC	AVA	SAN LEANDRO PUMP STATION	$ 8,885	2022	2007
Bio Assay System	Bioassay System	DLBS01	DECHL-MDF-BISUL	BAS	MARINA DECHLORINATION STATION	$ 34,030	2017	2007
Building	Alvarado PS Structure	ABBD01	PS-ALV-FAC	BLD	ALVARADO EFFLUENT PUMP STATION	$ 6,000,000		1981
Building	Marina Dechlor Facility Structure	DBBD01	DECHL-MDF-BLDG1	BLD	MARINA DECHLORINATION STATION	$ 4,202,340		1981
Building	Marina Dechlor Facility Bisulfite	DBBD02A	DECHL-MDF-BLDG2	BLD	MARINA DECHLORINATION STATION	$ 4,202,340		1995
Building	Oro Loma PS Structure	OBBD01	PS-ORO-FAC	BLD	ORO LOMA PUMP STATION	$ 8,654,120		1978
Compressor	AIR COMP, SRVC & MTC AIR	DMAC01	DECHL-MDF-HVAC	CMP	MARINA DECHLORINATION STATION	$ 2,583	2016	1991
Compressor	AIR COMPRESSOR NO. 1	OMAC01C	PS-ORO-FAC	CMP	ORO LOMA PUMP STATION	$ 3,000	2020	1981
Compressor	AIR COMPRESSOR NO. 2	OMAC02C	PS-ORO-FAC	CMP	ORO LOMA PUMP STATION	$ 3,000	2017	1981
Cathodic Protection System	Cathodic Protection System	DICP01	DECHL-MDF-BLDG1	CPS	MARINA DECHLORINATION STATION	$ 10,000		2010
Computer Equipment / Software	Canon Color Image Runner 5185I	EBDA102	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 18,412	2020	2008
Computer Equipment / Software	DAS EQuter, Monitor, & UPS	EBDA104	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 3,193	2015	2008
Computer Equipment / Software	Dell Dimension 8300 + UPS - O&M Man	EBDA105	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 2,826	2015	2006

Union Sanitary District
EBDA Fixed Asset Valuation as of May 2015

Asset Class	Description	AssetID	Parent ID	Asset Class ID	Location	Replacement Cost	Estimate Renewal Year	Installation Year
Computer Equipment / Software	Dell Dimension 8300 + UPS - Admin Asst	EBDA107	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 2,826	2014	2009
Computer Equipment / Software	Dell Precision 340, 2.3 GHz Acct. EQuter	EBDA108	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 2,966	2014	2009
Computer Equipment / Software	American Fundware Acct. Software	EBDA116	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 3,632	2015	2003
Computer Equipment / Software	Phone System-9 units plus control system	EBDA120	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 15,526	2019	2009
Computer Equipment / Software	Dell Lattitude, D620 laptop + accessories	EBDA138	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 2,496	2015	2010
Computer Equipment / Software	ACTIVE FILE STORAGE	EBDA142	OPS-HIST	CPU	EBDA OPERATION CENTER	$ 6,013	2019	1994
Computer Equipment / Software	Records Mgt Software (Versatile)	EBDA147	OPS-HIST	CPU	EBDA OPERATION CENTER	$ 2,422	2015	2002
Computer Equipment / Software	Dell XPS 400 EQuter System - GM	EBDA149	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 3,403	2015	2010
Computer Equipment / Software	EBDA Network Server	EBDA159	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 4,055	2015	2009
Computer Equipment / Software	CANON NP6651 COPIER	EBDA102B	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 1,000	2015	2000
Computer Equipment / Software	CANON L777 FAX MACHINE	EBDA103A	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 1,000	2015	2000
Computer Equipment / Software	CVW, DELL XPS 450 MHz Pentium II, 8.4 GB, DVD	EBDA105B	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 1,000	2015	2000
Computer Equipment / Software	O&M Manager dell dimension 8300	EBDA105C	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 1,000	2015	2004
Computer Equipment / Software	AA dell dimension 8300	EBDA107B	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 1,000	2015	2004
Computer Equipment / Software	DELL PRECISION EQUTER - ACCOUNTING	EBDA108B	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 1,000	2015	2001
Computer Equipment / Software	A DELL DIMENSION 4100 1GHZ SYSTEM	EBDA149A	OPS-EQ	CPU	EBDA OPERATION CENTER	$ 1,000	2015	2001
Overhead Crane	OVERHEAD CRANE & HOIST	OMTH01	PS-ORO-FAC	CRN	ORO LOMA PUMP STATION	$ 116,651		1981
Drive Shaft	Alvarado Drive Shaft Pump 1	ADFC01	PS-ALV-PU1	DS	ALVARADO EFFLUENT PUMP STATION	$ 5,000	2016	1981
Drive Shaft	Alvarado Drive Shaft Pump 2	ADFC02	PS-ALV-PU2	DS	ALVARADO EFFLUENT PUMP STATION	$ 5,000	2016	1981
Drive Shaft	Alvarado Drive Shaft Pump 3	ADFC03	PS-ALV-PU3	DS	ALVARADO EFFLUENT PUMP STATION	$ 5,000	2016	1981
Drive Shaft	Alvarado Drive Shaft Pump 4	ADFC04	PS-ALV-PU4	DS	ALVARADO EFFLUENT PUMP STATION	$ 5,000	2016	1981
Drive Shaft	Alvarado Drive Shaft Pump 5	ADFC05	PS-ALV-PU5	DS	ALVARADO EFFLUENT PUMP STATION	$ 5,000	2016	1981
Drive Shaft	Alvarado Drive Shaft Pump 6	ADFC06	PS-ALV-PU6	DS	ALVARADO EFFLUENT PUMP STATION	$ 5,000	2016	1996
Drive Shaft	Flex Coupling/Drive Shaft Engine No. 1	ODFC01	PS-ORO-PU2	DS	ORO LOMA PUMP STATION	$ 8,527	2022	1981
Drive Shaft	Flex Coupling/Drive Shaft Engine No. 2	ODFC02	PS-ORO-PU3	DS	ORO LOMA PUMP STATION	$ 8,527	2022	1981
Drive Shaft	Oro Loma Drive Shaft Pump 1	ODFC01	PS-ORO-PU2	DS	ORO LOMA PUMP STATION	$ 5,000		1981
Drive Shaft	Oro Loma Drive Shaft Pump 2	ODFC02	PS-ORO-PU3	DS	ORO LOMA PUMP STATION	$ 5,000		1981
Drive Shaft	Oro Loma Drive Shaft Pump 3	ODFC03	PS-ORO-PU1	DS	ORO LOMA PUMP STATION	$ 5,000		1981
Drive Shaft	Oro Loma Drive Shaft Pump 4	ODFC04	PS-ORO-PU4	DS	ORO LOMA PUMP STATION	$ 5,000		1981
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 1	APEF01M	PS-ALV-PU1	EFM	ALVARADO EFFLUENT PUMP STATION	$ 41,305	2032	1996
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 2	APEF02M	PS-ALV-PU2	EFM	ALVARADO EFFLUENT PUMP STATION	$ 41,305	2032	1996
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 3	APEF03M	PS-ALV-PU3	EFM	ALVARADO EFFLUENT PUMP STATION	$ 41,305	2032	1996
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 4	APEF04M	PS-ALV-PU4	EFM	ALVARADO EFFLUENT PUMP STATION	$ 49,566	2032	1996
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 5	APEF05M	PS-ALV-PU5	EFM	ALVARADO EFFLUENT PUMP STATION	$ 49,566	2032	2000
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 6	APEF06M	PS-ALV-PU6	EFM	ALVARADO EFFLUENT PUMP STATION	$ 49,566	2032	1996
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 4	HPEF04M	PS-HAY-PU4	EFM	HAYWARD PUMP STATION	$ 20,887	2025	1981
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 3	HPEF03M	PS-HAY-PU3	EFM	HAYWARD PUMP STATION	$ 20,887	2025	1981
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 2	HPEF02M	PS-HAY-PU2	EFM	HAYWARD PUMP STATION	$ 20,887	2024	1981
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 1	HPEF01M	PS-HAY-PU1	EFM	HAYWARD PUMP STATION	$ 20,887	2023	1981
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 1	OPEF01M	PS-ORO-PU1	EFM	ORO LOMA PUMP STATION	$ 24,485	2021	1981
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 4	OPEF04M	PS-ORO-PU4	EFM	ORO LOMA PUMP STATION	$ 24,485	2021	1996
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 1	SPEF01M	PS-SL-PU1	EFM	SAN LEANDRO PUMP STATION	$ 21,157	2022	2007
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 2	SPEF02M	PS-SL-PU2	EFM	SAN LEANDRO PUMP STATION	$ 21,157	2022	2007
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 3	SPEF03M	PS-SL-PU3	EFM	SAN LEANDRO PUMP STATION	$ 21,157	2022	2007
Motor - Effluent	EFFLUENT PUMP MOTOR NO. 4	SPEF04M	PS-SL-PU4	EFM	SAN LEANDRO PUMP STATION	$ 21,157	2022	2007
Pump - Effluent	EFFLUENT PUMP NO. 1	APEF01P	PS-ALV-PU1	EFP	ALVARADO EFFLUENT PUMP STATION	$ 45,000		1981
Pump - Effluent	EFFLUENT PUMP NO. 2	APEF02P	PS-ALV-PU2	EFP	ALVARADO EFFLUENT PUMP STATION	$ 45,000	2021	1981
Pump - Effluent	EFFLUENT PUMP NO. 3	APEF03P	PS-ALV-PU3	EFP	ALVARADO EFFLUENT PUMP STATION	$ 45,000	2021	1981
Pump - Effluent	EFFLUENT PUMP NO. 4	APEF04P	PS-ALV-PU4	EFP	ALVARADO EFFLUENT PUMP STATION	$ 60,000	2021	1981
Pump - Effluent	EFFLUENT PUMP NO. 5	APEF05P	PS-ALV-PU5	EFP	ALVARADO EFFLUENT PUMP STATION	$ 143,742	2021	1981
Pump - Effluent	EFFLUENT PUMP NO. 6	APEF06P	PS-ALV-PU6	EFP	ALVARADO EFFLUENT PUMP STATION	$ 143,742		1996
Pump - Effluent	EFFLUENT PUMP NO. 4	HPEF04P	PS-HAY-PU4	EFP	HAYWARD PUMP STATION	$ 54,897	2025	1981

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Asset Class	Description	AssetID	Parent ID	Asset Class ID	Location	Replacement Cost	Estimate Renewal Year	Installation Year
Pump - Effluent	EFFLUENT PUMP NO. 3	HPEF03P	PS-HAY-PU3	EFP	HAYWARD PUMP STATION	$ 54,897	2025	1981
Pump - Effluent	EFFLUENT PUMP NO. 2	HPEF02P	PS-HAY-PU2	EFP	HAYWARD PUMP STATION	$ 54,897	2024	1981
Pump - Effluent	EFFLUENT PUMP NO. 1	HPEF01P	PS-HAY-PU1	EFP	HAYWARD PUMP STATION	$ 54,897	2023	1981
Pump - Effluent	EFFLUENT PUMP NO. 1	OPEF01P	PS-ORO-PU1	EFP	ORO LOMA PUMP STATION	$ 189,040		1981
Pump - Effluent	EFFLUENT PUMP NO. 2	OPEF02P	PS-ORO-PU2	EFP	ORO LOMA PUMP STATION	$ 277,377	2026	1981
Pump - Effluent	EFFLUENT PUMP NO. 3	OPEF03P	PS-ORO-PU3	EFP	ORO LOMA PUMP STATION	$ 277,377	2026	1981
Pump - Effluent	EFFLUENT PUMP NO. 4	OPEF04P	PS-ORO-PU4	EFP	ORO LOMA PUMP STATION	$ 189,040		1981
Pump - Effluent	EFFLUENT PUMP NO. 1	SPEF01P	PS-SL-PU1	EFP	SAN LEANDRO PUMP STATION	$ 37,781		2007
Pump - Effluent	EFFLUENT PUMP NO. 2	SPEF02P	PS-SL-PU2	EFP	SAN LEANDRO PUMP STATION	$ 37,781		2007
Pump - Effluent	EFFLUENT PUMP NO. 3	SPEF03P	PS-SL-PU3	EFP	SAN LEANDRO PUMP STATION	$ 37,781		2007
Pump - Effluent	EFFLUENT PUMP NO. 4	SPEF04P	PS-SL-PU4	EFP	SAN LEANDRO PUMP STATION	$ 37,781		2007
Electric Entry Gate	MDF Electric Entry Gate	DMGO01	DECHL-MDF-BLDG1	EGT	MARINA DECHLORINATION STATION	$ 15,000	2016	1996
Flow Meter	ALVARADO EFF FLOW METER	AIFM01	FM-SR-AH	FLM	ALVARADO EFFLUENT PUMP STATION	$ 82,610	2020	1996
Flow Meter	MARINA FLOW METER NO. 1	DIFM01	DECHL-MDF-MET	FLM	MARINA DECHLORINATION STATION	$ 8,000	2020	2010
Flow Meter	MARINA FLOW METER NO. 1	DIFM01S	DECHL-MDF-MET	FLM	MARINA DECHLORINATION STATION	$ 8,000		2010
Flow Meter	MARINA FLOW METER NO. 2	DIFM02	DECHL-MDF-MET	FLM	MARINA DECHLORINATION STATION	$ 8,000	2020	2005
Flow Meter	MARINA FLOW METER NO. 1	DIFM01A	DECHL-MDF-MET	FLM	MARINA DECHLORINATION STATION	$ 6,783	2016	1994
Flow Meter	ALVARADO NORTH FLOW METER	HIFM01Q	FM-SR-AH	FLM	HAYWARD PUMP STATION	$ 9,046	2018	2008
Flow Meter	HAYWARD FLOW METER	HIFM02Q	FM-SR-HO	FLM	HAYWARD PUMP STATION	$ 6,806	2019	2009
Flow Meter	ORO LOMA FLOW METER	OIFM01	PS-ORO-INST	FLM	ORO LOMA PUMP STATION	$ 6,182	2021	2011
Flow Meter	SAN LEANDRO FLOW METER	SIFM01Q	FM-NR-SM	FLM	SAN LEANDRO PUMP STATION	$ 8,885	2015	2008
Forcemain	AH 60 inch Forcemain from Alvarado to KEY F	FAAH0F	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 16,452,000		1978
Forcemain	AH 60 inch Forcemain from KEY F to KEY H	FAAHFH	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 6,467,400		1978
Forcemain	AH 60 inch Forcemain from KEY H to KEY M	FAAHHM	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 14,857,200		1978
Forcemain	AH 60 inch Forcemain from KEY M to KEY P	FAAHMP	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 7,077,600		1978
Forcemain	AH 60 inch Forcemain from KEY P to KEY R	FAAHPR	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 2,170,800		1978
Forcemain	AH 60 inch Forcemain from KEY R to KEY S	FAAHRS	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 1,384,200		1978
Forcemain	AH 60 inch Forcemain from KEY S to KEY T	FAAHST	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 1,279,800		1978
Forcemain	AH 60 inch Forcemain from KEY T to Hayward Intake	FAAHT0	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 3,580,200		1978
Forcemain	AH 60 inch Forcemain Hayward Intake	FAAH01	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 63,000		1978
Forcemain	AH 60 inch Forcemain Hayward Intake	FAAH02	FM-SR-AH-P	FM	FORCE MAIN - ALVARADO TO HAYWARD	$ 59,400		1978
Forcemain	HO 36 inch Forcemain at Hayward Site	FAHO00	FM-SR-HO-P	FM	FORCE MAIN - HAYWARD TO ORO LOMA	$ 227,880		1978
Forcemain	HO 60 inch Forcemain from Hayward to KEY D	FAHO0D	FM-SR-HO-P	FM	FORCE MAIN - HAYWARD TO ORO LOMA	$ 9,999,000		1978
Forcemain	HO 60 inch Forcemain from KEY D to KEY E	FAHODE	FM-SR-HO-P	FM	FORCE MAIN - HAYWARD TO ORO LOMA	$ 1,242,000		1978
Forcemain	HO 60 inch Forcemain from KEY E to KEY G	FAHOEG	FM-SR-HO-P	FM	FORCE MAIN - HAYWARD TO ORO LOMA	$ 4,464,000		1978
Forcemain	HO 78 inch Forcemain from Skywest Tie-in to Oro Lom	FAHO01	FM-SR-HO-P	FM	FORCE MAIN - HAYWARD TO ORO LOMA	$ 4,314,960		1978
Forcemain	SM 48 inch Forcemain from San Leandro to KEY B	FASM0B	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 181,440		1978
Forcemain	SM 48 inch Forcemain from KEY B to KEY C	FASMBC	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 272,160		1978
Forcemain	SM 48 inch Forcemain from KEY C to KEY D	FASMCD	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 1,499,040		1978
Forcemain	SM 48 inch Forcemain from KEY D to KEY K	FASMDK	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 927,360		1978
Forcemain	SM 48 inch Forcemain from KEY K to KEY F	FASMKF	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 2,384,640		1978
Forcemain	SM 48 inch Forcemain from KEY F to KEY 1	FASMFE	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 3,375,360		1978
Forcemain	SM 48 inch Forcemain from KEY 1 to KEY H	FASMEH	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 2,525,760		1978
Forcemain	SM 48 inch Forcemain from KEY H to KEY K	FASMHK	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 1,595,520		1978
Forcemain	SM 48 inch Forcemain from KEY K to MDF	FASMK0	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 1,742,400		1978
Forcemain	OM 42 inch Forcemain Oro Loma Bypass Line	FAOM01	FM-NR-SM-P	FM	FORCE MAIN - SAN LEANDRO TO MDF	$ 211,680		1978
Forcemain	OM 84 inch Forcemain from Oro Loma to 96 inch mai	FAOM02	FM-NR-OM-P	FM	FORCE MAIN - ORO LOMA TO MDF	$ 428,400		1978
Forcemain	OM 96 inch Forcemain from 84 inch main to KEY A	FAOM0A	FM-NR-OM-P	FM	FORCE MAIN - ORO LOMA TO MDF	$ 288,000		1978
Forcemain	OM 96 inch Forcemain from KEY A to KEY B	FAOMAB	FM-NR-OM-P	FM	FORCE MAIN - ORO LOMA TO MDF	$ 5,472,000		1978
Forcemain	OM 96 inch Forcemain from KEY B to KEY E	FAOMBE	FM-NR-OM-P	FM	FORCE MAIN - ORO LOMA TO MDF	$ 11,520,000		1978
Forcemain	OM 96 inch Forcemain from KEY E to KEY F	FAOMEF	FM-NR-OM-P	FM	FORCE MAIN - ORO LOMA TO MDF	$ 3,168,000		1978
Forcemain	OM 96 inch Forcemain from KEY F to KEY G	FAOMFG	FM-NR-OM-P	FM	FORCE MAIN - ORO LOMA TO MDF	$ 4,210,560		1978

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Asset Class	Description	AssetID	Parent ID	Asset Class ID	Location	Replacement Cost	Estimate Renewal Year	Installation Year
Forcemain	OM 96 inch Forcemain from KEY E to MDF	FAOMG0	FM-NR-OM-P	FM	FORCE MAIN - ORO LOMA TO MDF	$ 6,664,320		1978
Forcemain	OF 96 inch Forcemain from MDF to Aquadyne	FAOF0A	FM-NR-OF-P	FM	FORCE MAIN - OUTFALL	$ 371,520		1978
Forcemain	OF 96 inch Forcemain from Aquadyne to KEY F	FAOFAF	FM-NR-OF-P	FM	FORCE MAIN - OUTFALL	$ 20,076,480		1978
Forcemain	OF 96 inch Forcemain from KEY F to BAY	FAOFF0	FM-NR-OF-P	FM	FORCE MAIN - OUTFALL	$ 82,837,440		1978
Forcemain	SW 8 Inch Forcemain Oro Loma	FASW00	FM-SR-SW-P	FM	FORCE MAIN - SKYWEST	$ 1,741,200		1978
Fencing	MDF Perimeter Fencing	DBPF01	DECHL-MDF	FNC	MARINA DECHLORINATION STATION	$ 10,000	2018	1985
Fencing	Perimeter fencing	HBPF01	PS-HAY-FAC	FNC	HAYWARD PUMP STATION	$ 12,000	2030	2010
Gearbox	Eff Pump No. 1 Gear Box	OGEF01	PS-ORO-PU1	GB	ORO LOMA PUMP STATION	$ 140,000	2034	1981
Gearbox	Eff Pump No. 2 Gear Box	OGEF02	PS-ORO-PU2	GB	ORO LOMA PUMP STATION	$ 140,000	2026	1981
Gearbox	Eff Pump No. 3 Gear Box	OGEF03	PS-ORO-PU3	GB	ORO LOMA PUMP STATION	$ 140,000	2025	1981
Gearbox	Eff Pump No. 4 Gear Box	OGEF04	PS-ORO-PU4	GB	ORO LOMA PUMP STATION	$ 140,000	2033	1981
Genset	EMERGENCY GENERATOR-MDF	DEGN01	DECHL-MDF-GEN	GEN	MARINA DECHLORINATION STATION	$ 68,002		1991
Genset	EMERGENCY GENERATOR-OPS CENTER	EBDAAEG01	OPS-GEN	GEN	EBDA OPERATION CENTER	$ 15,000	2042	2012
Genset	EMERGENCY GENERATOR-HEPS	HEGN01	PS-HAY-GEN	GEN	HAYWARD PUMP STATION	$ 134,500	2030	2000
Genset	EMERGENCY GENERATOR-OLEPS	OEGN01	PS-ORO-GEN	GEN	ORO LOMA PUMP STATION	$ 48,969	2016	1981
Genset	Caterpillar 3512 Engine NO. 1 (pump 2)	ODEN01A	PS-ORO-PU2	GEN	ORO LOMA PUMP STATION	$ 150,000		2000
Genset	Caterpillar 3512 Engine No. 2 (pump 3)	ODEN02A	PS-ORO-PU3	GEN	ORO LOMA PUMP STATION	$ 150,000		2000
Genset	EMERGENCY GENERATOR-SLEPS	SEGN01A	PS-SL-GEN	GEN	SAN LEANDRO PUMP STATION	$ 150,000		2007
Hoist / Crane	OVERHEAD CRANE & HOIST	AMTH01	PS-ALV-FAC	HC	ALVARADO EFFLUENT PUMP STATION	$ 6,791	2016	2004
Hoist / Crane	TROLLEY AND HOIST	AMTH02	PS-ALV-FAC	HC	ALVARADO EFFLUENT PUMP STATION	$ 13,218	2016	1996
Hoist / Crane	TROLLEY AND HOIST	DMTH01	DECHL-MDF-BLDG1	HC	MARINA DECHLORINATION STATION	$ 7,070	2021	1981
Hoist / Crane	HOIST NO. 1 RECYCLE WATER SCREEN	OMRW01H	PS-ORO-PU5	HC	ORO LOMA PUMP STATION	$ 3,000	2016	1981
Hoist / Crane	HOIST NO. 2 RECYCLE WATER SCREEN	OMRW02H	PS-ORO-PU5	HC	ORO LOMA PUMP STATION	$ 3,000	2016	1981
Heat Exchanger	Heat Exchange System Engine No. 1	ODHX01	PS-ORO-PU2	HEX	ORO LOMA PUMP STATION	$ 46,756	2019	1981
Heat Exchanger	Heat Exchange System Engine No. 2	ODHX02	PS-ORO-PU3	HEX	ORO LOMA PUMP STATION	$ 46,756	2019	1981
HVAC System / Components	PUMP ROOM VENT FAN	AHVF04	PS-ALV-FAC	HVAC	ALVARADO EFFLUENT PUMP STATION	$ 4,956	2020	1996
HVAC System / Components	HVAC System No. 1-rplcd condensor 4/00	EBDA123	OPS-BLDG	HVAC	EBDA OPERATION CENTER	$ 11,523	2025	2010
HVAC System / Components	HVAC System No. 2-rplcd evaporator coil 4/00	EBDA124	OPS-BLDG	HVAC	EBDA OPERATION CENTER	$ 5,252	2025	2010
HVAC System / Components	Main Ventilation System	OHVF01	PS-ORO-FAC	HVAC	ORO LOMA PUMP STATION	$ 19,139	2022	1981
HVAC System / Components	Ventilation System Motor & Fan	OHVF01M	PS-ORO-FAC	HVAC	ORO LOMA PUMP STATION	$ 6,380	2022	1981
Instruments	Human Machine Interface Control	AITS01	PS-ALV-INST	INST	ALVARADO EFFLUENT PUMP STATION	$ 5,050	2018	2008
Instruments	Level transducer	AILIO2A	PS-ALV-INST	INST	ALVARADO EFFLUENT PUMP STATION	$ 3,000	2020	2008
Instruments	Station Control, Alarm, & SCADA System	DICC01	DECHL-MDF-BLDG1-INST	INST	MARINA DECHLORINATION STATION	$ 32,436	2021	2003
Instruments	Bisulfite Tank No. 1 & 2 Level Ctrl Trnsmtr	DILT01	DECHL-MDF-BLDG2-INST	INST	MARINA DECHLORINATION STATION	$ 3,406	2018	1995
Instruments	WATER CHAMP CHMCL INDCTN UNIT	DMCI01	DECHL-MDF-WC	INST	MARINA DECHLORINATION STATION	$ 33,667	2016	1995
Instruments	Dechlorination Chem Tank Sensor	SILVC01	DECHL-SL	INST	SAN LEANDRO DECHLORINATION STATION	$ 3,000	2015	2010
Instruments	Primary sensing device for bisulfite tank 1	DILI01	DECHL-MDF-BLDG2-INST	INST	MARINA DECHLORINATION STATION	$ 3,000	2016	1995
Instruments	Primary sensing device for bisulfite tank 2	DILT02	DECHL-MDF-BLDG2-INST	INST	MARINA DECHLORINATION STATION	$ 3,000	2016	1995
Instruments	Level sensor for chemical storage tank	OILVC01	DECHL-ORO	INST	ORO LOMA DECHLORINATION STATION	$ 3,000	2019	2009
Instruments	HUMAN MACHINE INTERFACE	HICC01	PS-HAY-INST	INST	HAYWARD PUMP STATION	$ 3,604	2019	1994
Instruments	OLEPS Human Machine Interface	OITS01	PS-ORO-INST	INST	ORO LOMA PUMP STATION	$ 3,000	2016	2004
Instruments	Skywest Instrument Control Center	WICC01	PS-SW-INST	INST	SKY WEST PUMP STATION	$ 10,389	2019	1983
Instruments	Skywest chlorine analyzer	WIRA01A	PS-SW-INST	INST	SKY WEST PUMP STATION	$ 10,000	2018	2005
Instruments	Wet Well Level Indicator No.1	SICA01	PS-SL-WW	INST	SAN LEANDRO PUMP STATION	$ 3,778	2018	2007
Instruments	Wet Well Level Indicator No.2	SICA02	PS-SL-WW	INST	SAN LEANDRO PUMP STATION	$ 3,778	2019	2007
Tank - Indoor	BISULFITE STORAGE TANK NO. 1	DMST01	DECHL-MDF-BISUL	ITK	MARINA DECHLORINATION STATION	$ 26,015		1995
Tank - Indoor	BISULFITE STORAGE TANK NO. 2	DMST02	DECHL-MDF-BISUL	ITK	MARINA DECHLORINATION STATION	$ 26,015		1995
Tank - Indoor	HYDROPNEUMATIC TANK	OMHT01	PS-ORO-T	ITK	ORO LOMA PUMP STATION	$ 8,493	2022	1981
Tank - Indoor	Diesel Fuel Day Tank	OMST03	PS-ORO-FS	ITK	ORO LOMA PUMP STATION	$ 6,674	2025	1999
Valve - Large	PUMP NO. 1 DISCHARGE VALVE	AVBM01D	PS-ALV-PU1	LV	ALVARADO EFFLUENT PUMP STATION	$ 11,061	2016	1981
Valve - Large	PUMP 1 INLET VALVE	AVBM01I	PS-ALV-PU1	LV	ALVARADO EFFLUENT PUMP STATION	$ 9,536	2016	1981
Valve - Large	PUMP NO. 2 DISCHARGE VALVE	AVBM02D	PS-ALV-PU2	LV	ALVARADO EFFLUENT PUMP STATION	$ 11,061	2016	1981

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Asset Class	Description	AssetID	Parent ID	Asset Class ID	Location	Replacement Cost	Estimate Renewal Year	Installation Year
Valve - Large	PUMP 2 INLET VALVE	AVBM02I	PS-ALV-PU2	LV	ALVARADO EFFLUENT PUMP STATION	$ 9,536	2016	1981
Valve - Large	PUMP NO. 3 DISCHARGE VALVE	AVBM03D	PS-ALV-PU3	LV	ALVARADO EFFLUENT PUMP STATION	$ 11,061	2016	1981
Valve - Large	PUMP 3 INLET VALVE	AVBM03I	PS-ALV-PU3	LV	ALVARADO EFFLUENT PUMP STATION	$ 9,536	2016	1981
Valve - Large	PUMP NO. 4 DISCHARGE VALVE	AVBM04D	PS-ALV-PU4	LV	ALVARADO EFFLUENT PUMP STATION	$ 16,213	2016	1981
Valve - Large	PUMP 4 INLET VALVE	AVBM04I	PS-ALV-PU4	LV	ALVARADO EFFLUENT PUMP STATION	$ 12,400	2016	1981
Valve - Large	PUMP NO. 5 DISCHARGE VALVE	AVBM05D	PS-ALV-PU5	LV	ALVARADO EFFLUENT PUMP STATION	$ 16,213	2016	1981
Valve - Large	PUMP 5 INLET VALVE	AVBM05I	PS-ALV-PU5	LV	ALVARADO EFFLUENT PUMP STATION	$ 12,400	2016	1981
Valve - Large	PUMP NO. 6 DISCHARGE VALVE	AVBM06D	PS-ALV-PU6	LV	ALVARADO EFFLUENT PUMP STATION	$ 16,213	2016	1981
Valve - Large	PUMP 6 INLET VALVE	AVBM06I	PS-ALV-PU6	LV	ALVARADO EFFLUENT PUMP STATION	$ 12,400	2016	1981
Valve - Large	CONTRL BOX ISOL VALVE (SOUTH)	AVBM07	PS-ALV-FAC	LV	ALVARADO EFFLUENT PUMP STATION	$ 54,523	2016	1981
Valve - Large	EMERGENCY OUTFALL VALVE	AVBM08	FM-SR-AH	LV	ALVARADO EFFLUENT PUMP STATION	$ 54,523	2016	1981
Valve - Large	FUTURE RECL WATER VALVE	AVBM09	FM-SR-AH	LV	ALVARADO EFFLUENT PUMP STATION	$ 54,523	2016	1981
Valve - Large	CONTRL BOX ISOL VALVE (NORTH)	AVBM10	FM-SR-AH	LV	ALVARADO EFFLUENT PUMP STATION	$ 54,523	2016	1981
Valve - Large	PUMP NO. 1 CHECK VALVE	AVCK01	PS-ALV-PU1	LV	ALVARADO EFFLUENT PUMP STATION	$ 38,000		1981
Valve - Large	PUMP NO. 2 CHECK VALVE	AVCK02	PS-ALV-PU2	LV	ALVARADO EFFLUENT PUMP STATION	$ 38,000		1981
Valve - Large	PUMP NO. 3 CHECK VALVE	AVCK03	PS-ALV-PU3	LV	ALVARADO EFFLUENT PUMP STATION	$ 38,000		1981
Valve - Large	PUMP NO. 4 CHECK VALVE	AVCK04	PS-ALV-PU4	LV	ALVARADO EFFLUENT PUMP STATION	$ 61,132		1981
Valve - Large	PUMP NO. 5 CHECK VALVE	AVCK05	PS-ALV-PU5	LV	ALVARADO EFFLUENT PUMP STATION	$ 61,132		1981
Valve - Large	PUMP NO. 6 CHECK VALVE	AVCK06	PS-ALV-PU6	LV	ALVARADO EFFLUENT PUMP STATION	$ 61,132		1981
Valve - Large	OL FORCE MAIN VALVE TO BAY	DVBM05	DECHL-MDF-FM	LV	MARINA DECHLORINATION STATION	$ 313,707	2030	1981
Valve - Large	SL FORCE MAIN VALVE (BYPASS)	DVBM06	DECHL-MDF-FM	LV	MARINA DECHLORINATION STATION	$ 73,453	2021	1981
Valve - Large	SL FORCE MAIN VALVE TO BAY	DVBM07	DECHL-MDF-FM	LV	MARINA DECHLORINATION STATION	$ 73,453	2021	1981
Valve - Large	VALVE AT LAVWMA CNCT	FVBMLV	FM-NR-OM-V	LV	FORCE MAIN - ORO LOMA TO MDF	$ 50,000		2011
Valve - Large	EFF PUMP NO. 4 BUTTERFLY VALVE	HVCK04	PS-HAY-PU4	LV	HAYWARD PUMP STATION	$ 26,015	2031	1993
Valve - Large	EFF PUMP NO. 3 CHECK VALVE	HVCK03	PS-HAY-PU3	LV	HAYWARD PUMP STATION	$ 26,015	2031	1981
Valve - Large	EFF PUMP NO. 2 BUTTERFLY VALVE	HVCK02	PS-HAY-PU2	LV	HAYWARD PUMP STATION	$ 26,015	2031	1993
Valve - Large	EFF PUMP NO. 1 CHECK VALVE	HVCK01	PS-HAY-PU1	LV	HAYWARD PUMP STATION	$ 26,015	2031	1981
Valve - Large	PUMP STATION DISCHARGE VALVE	HVBM05	FM-SR-HO	LV	HAYWARD PUMP STATION	$ 17,667	2031	1981
Valve - Large	H.E.P.S. ISOLATION VALVE	HVBM06	FM-SR-HO	LV	HAYWARD PUMP STATION	$ 17,667	2031	1981
Valve - Large	DISCHARGE VALVE NO. 4	HVBM04D	PS-HAY-PU4	LV	HAYWARD PUMP STATION	$ 10,246	2031	1981
Valve - Large	DISCHARGE VALVE NO. 3	HVBM03D	PS-HAY-PU3	LV	HAYWARD PUMP STATION	$ 10,246	2031	1981
Valve - Large	DISCHARGE VALVE NO. 2	HVBM02D	PS-HAY-PU2	LV	HAYWARD PUMP STATION	$ 10,246	2031	1981
Valve - Large	DISCHARGE VALVE NO. 1	HVBM01D	PS-HAY-PU1	LV	HAYWARD PUMP STATION	$ 10,246	2031	1981
Valve - Large	EFF PUMP NO. 1 DISCH VALVE	OVBE01D	PS-ORO-PU1	LV	ORO LOMA PUMP STATION	$ 61,212		1981
Valve - Large	EFF PUMP NO. 2 DISCH VALVE	OVBE02D	PS-ORO-PU2	LV	ORO LOMA PUMP STATION	$ 82,635		1981
Valve - Large	EFF PUMP NO. 3 DISCH VALVE	OVBE03D	PS-ORO-PU3	LV	ORO LOMA PUMP STATION	$ 82,635		1981
Valve - Large	EFF PUMP NO. 4 DISCH VALVE	OVBE04D	PS-ORO-PU4	LV	ORO LOMA PUMP STATION	$ 61,212		1981
Valve - Large	ORO LOMA BYP BUTFLY VALVE	OVBE05	FM-NR-OM-V	LV	ORO LOMA PUMP STATION	$ 61,212		1981
Valve - Large	ORO LOMA FM BTFLY VALVE	OVBE06	FM-NR-OM-V	LV	ORO LOMA PUMP STATION	$ 107,119		1981
Valve - Large	Effluent Pump No. 1 Discharge Valve	SVBM01D	PS-SL-PU1	LV	SAN LEANDRO PUMP STATION	$ 3,454		2007
Valve - Large	Effluent Pump No. 2 Discharge Valve	SVBM02D	PS-SL-PU2	LV	SAN LEANDRO PUMP STATION	$ 3,454		2007
Valve - Large	Effluent Pump No. 3 Discharge Valve	SVBM03D	PS-SL-PU3	LV	SAN LEANDRO PUMP STATION	$ 3,454		2007
Valve - Large	Effluent Pump No. 4 Discharge Valve	SVBM04D	PS-SL-PU4	LV	SAN LEANDRO PUMP STATION	$ 3,454		2007
Valve - Large	OXIDATION POND VALVE	SVBM05	PS-SL-FAC	LV	SAN LEANDRO PUMP STATION	$ 14,465	2016	1981
Valve - Large	S.L.P.S. MAIN ISOLATION VALVE	SVBM06	PS-SL-FAC	LV	SAN LEANDRO PUMP STATION	$ 79,597	2016	1981
Valve - Large	Spring loaded check vavle	SVCK01A	PS-SL-PU1	LV	SAN LEANDRO PUMP STATION	$ 6,000		2007
Valve - Large	Spring loaded check vavle	SVCK02A	PS-SL-PU2	LV	SAN LEANDRO PUMP STATION	$ 6,000		2007
Valve - Large	Spring loaded check valve	SVCK03A	PS-SL-PU3	LV	SAN LEANDRO PUMP STATION	$ 6,000		2007
Valve - Large	Spring loaded check vavle	SVCK04A	PS-SL-PU4	LV	SAN LEANDRO PUMP STATION	$ 6,000		2007
Motor Control Center	EFFLUENT MOTOR CONTROL	AEMC01	PS-ALV-ELEC	MCC	ALVARADO EFFLUENT PUMP STATION	$ 99,132	2021	2010
Motor Control Center	MOTOR CONTROL CENTER NO. 1	DEMC01	DECHL-MDF-BLDG1-INST	MCC	MARINA DECHLORINATION STATION	$ 24,692	2024	1981
Motor Control Center	MOTOR CONTROL CENTER NO. 2	DEMC02	DECHL-MDF-BLDG1-INST	MCC	MARINA DECHLORINATION STATION	$ 16,072	2024	1981

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Asset Class	Description	AssetID	Parent ID	Asset Class ID	Location	Replacement Cost	Estimate Renewal Year	Installation Year
Motor Control Center	MOTOR CONTROL CENTER NO. 3	DEMC03	DECHL-MDF-BLDG1-INST	MCC	MARINA DECHLORINATION STATION	$ 15,310	2024	1981
Motor Control Center	MOTOR CONTROL CENTER	HEMC01	PS-HAY-ELEC	MCC	HAYWARD PUMP STATION	$ 500,000	2016	1981
Motor Control Center	MOTOR CONTROL CENTER NO. 1	OEMC01	PS-ORO-ELEC	MCC	ORO LOMA PUMP STATION	$ 29,691	2029	1981
Motor Control Center	MOTOR CONTROL CENTER NO. 2	OEMC02	PS-ORO-ELEC	MCC	ORO LOMA PUMP STATION	$ 61,835	2029	1981
Motor Control Center	SKY WEST MOTOR CONTROL CENTER	WEMC01	PS-SW-ELEC	MCC	SKY WEST PUMP STATION	$ 25,000	2013	1983
Motor Control Center	Motor Control Center	SEMC01	PS-SL-ELEC	MCC	SAN LEANDRO PUMP STATION	$ 80,959		2007
Motor - Medium	INJECTOR PUMP NO. 1 MOTOR	DPIW01M	DECHL-MDF-PU1	MDM	MARINA DECHLORINATION STATION	$ 12,190		2003
Motor - Medium	INJECTOR PUMP NO. 2 MOTOR	DPIW02M	DECHL-MDF-PU2	MDM	MARINA DECHLORINATION STATION	$ 12,190		2003
Motor - Medium	RECL WATER PUMP NO. 1 MOTOR	OPRW01M	PS-ORO-PU5	MDM	ORO LOMA PUMP STATION	$ 3,000		2003
Motor - Medium	RECL WATER PUMP NO. 2 MOTOR	OPRW02M	PS-ORO-PU6	MDM	ORO LOMA PUMP STATION	$ 3,000		2003
Motor - Medium	SKY WEST PUMP NO. 1 MOTOR	WPRW01M	PS-SW-PU1	MDM	SKY WEST PUMP STATION	$ 3,700	2017	1983
Motor - Medium	SKY WEST PUMP NO. 2 MOTOR	WPRW02M	PS-SW-PU2	MDM	SKY WEST PUMP STATION	$ 3,107	2017	1983
Manhole	Manhole Structure - KEY R STA 261+25	FMARAR	FM-SR-AH-V	MH	FORCE MAIN - ALVARADO TO HAYWARD	$ 75,000		1978
Manhole	Manhole Structure - KEY T STA 276+05	FMARAT	FM-SR-AH-V	MH	FORCE MAIN - ALVARADO TO HAYWARD	$ 75,000		1978
Manhole	Manhole Structure - KEY F STA 91+40	FMAVAF	FM-SR-AH-V	MH	FORCE MAIN - ALVARADO TO HAYWARD	$ 75,000		1978
Manhole	Manhole Structure - KEY H STA 127+33	FMAVAH	FM-SR-AH-V	MH	FORCE MAIN - ALVARADO TO HAYWARD	$ 75,000		1978
Manhole	Manhole Structure - KEY M STA 209+87	FMAVAM	FM-SR-AH-V	MH	FORCE MAIN - ALVARADO TO HAYWARD	$ 75,000		1978
Manhole	Manhole Structure - H-A A/V VALVE KEY P STA 249+19	FMAVAP	FM-SR-AH-V	MH	FORCE MAIN - ALVARADO TO HAYWARD	$ 75,000		1978
Manhole	Manhole Structure - H-A A/V VALVE KEY S STA 268+94	FMAVAS	FM-SR-AH-V	MH	FORCE MAIN - ALVARADO TO HAYWARD	$ 75,000		1978
Manhole	Manhole Structure - KEY E STA 62+45	FMAVHE	FM-SR-HO-V	MH	FORCE MAIN - HAYWARD TO ORO LOMA	$ 75,000		1978
Manhole	Manhole Structure - KEY G STA 87+25	FMAVHG	FM-SR-HO-V	MH	FORCE MAIN - HAYWARD TO ORO LOMA	$ 75,000		1978
Manhole	Manhole Structure - KEY D STA 55+55	FMAVOD	FM-SR-HO-V	MH	FORCE MAIN - HAYWARD TO ORO LOMA	$ 75,000		1978
Manhole	Manhole Structure - M-O A/V VALVE KEY A STA 1+00	FMAVSA	FM-NR-OM-V	MH	FORCE MAIN - ORO LOMA TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY B STA 20+00	FMAVSB	FM-NR-OM-V	MH	FORCE MAIN - ORO LOMA TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY E STA 60+00	FMAVSE	FM-NR-OM-V	MH	FORCE MAIN - ORO LOMA TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY F STA 71+00	FMAVSF1	FM-NR-OM-V	MH	FORCE MAIN - ORO LOMA TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY G STA 85+62	FMAVSG	FM-NR-OM-V	MH	FORCE MAIN - ORO LOMA TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY H STA 77+54	FMAVSH	FM-NR-SM-V	MH	FORCE MAIN - SAN LEANDRO TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY K STA 88+62	FMAVSK	FM-NR-SM-V	MH	FORCE MAIN - SAN LEANDRO TO MDF	$ 75,000		1978
Manhole	Manhole Structure - MDF Meter Vault STA 1+29	FMAVSM	FM-NR-OF	MH	FORCE MAIN - OUTFALL	$ 75,000		1978
Manhole	Manhole Structure - BUTTERFLY VALVE AT LAVWMA (	FMBMLV	FM-NR-OM-V	MH	FORCE MAIN - ORO LOMA TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY B STA 1+26	FMARSB	FM-NR-SM-V	MH	FORCE MAIN - SAN LEANDRO TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY C STA 3+15	FMARSC	FM-NR-SM-V	MH	FORCE MAIN - SAN LEANDRO TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY K STA 20+00	FMARSK	FM-NR-SM-V	MH	FORCE MAIN - SAN LEANDRO TO MDF	$ 75,000		1978
Manhole	Manhole Structure - Meter vault air relief assembly	FMAVOA	FM-NR-OM	MH	FORCE MAIN - ORO LOMA TO MDF	$ 75,000		1978
Manhole	Manhole Structure - KEY D STA 13+56	FMAVSDA	FM-NR-SM-V	MH	FORCE MAIN - SAN LEANDRO TO MDF	$ 75,000		1978
Manhole	Manhole Structure - STA: 60+00	FMAVSEA	FM-NR-SM-V	MH	FORCE MAIN - SAN LEANDRO TO MDF	$ 75,000		1978
Manhole	Manhole Structure - M-O A/V Valve key F Sta: 71+00	FMAVSF1A	FM-NR-OF-V	MH	FORCE MAIN - OUTFALL	$ 75,000		1978
Manhole	Manhole Structure - KEY F STA 36 + 56	FMAVSFA	FM-NR-SM-V	MH	FORCE MAIN - SAN LEANDRO TO MDF	$ 75,000		1978
Manhole	Manhole Structure - air valve at station 13+56	FMAVSO	FM-NR-SM-V	MH	FORCE MAIN - SAN LEANDRO TO MDF	$ 75,000		1978
Pump - Medium	Chemical Metering Pump No. 1	DPCM01P	DECHL-MDF-PUM1	MP	MARINA DECHLORINATION STATION	$ 6,336	2020	2007
Pump - Medium	Chemical Metering Pump No. 2	DPCM02P	DECHL-MDF-PUM2	MP	MARINA DECHLORINATION STATION	$ 6,336	2019	2007
Pump - Medium	Chemical Metering Pump No. 3	DPCM03P	DECHL-MDF-PUM3	MP	MARINA DECHLORINATION STATION	$ 6,336	2018	2007
Pump - Medium	SEWAGE PUMP NO. 1	DPDS01	DECHL-MDF-BLDG1	MP	MARINA DECHLORINATION STATION	$ 16,108		2007
Pump - Medium	SEWAGE PUMP NO. 2	DPDS02	DECHL-MDF-BLDG1	MP	MARINA DECHLORINATION STATION	$ 16,108		2007
Pump - Medium	Injector Water Pump & Motor No. 1	DPIW01P	DECHL-MDF-PU1	MP	MARINA DECHLORINATION STATION	$ 12,190		1994
Pump - Medium	Injector Water Pump & Motor No. 2	DPIW02P	DECHL-MDF-PU2	MP	MARINA DECHLORINATION STATION	$ 12,190		1994
Pump - Medium	Chemical feed pump at Oro Loma	OPCP01P	DECHL-ORO	MP	ORO LOMA DECHLORINATION STATION	$ 7,000	2016	2008
Pump - Medium	Recl Water Pump No. 1	OPRW01P	PS-ORO-PU5	MP	ORO LOMA PUMP STATION	$ 15,000		2012
Pump - Medium	Recl Water Pump No. 2	OPRW02P	PS-ORO-PU6	MP	ORO LOMA PUMP STATION	$ 15,000		2012
Pump - Medium	SKY WEST PUMP NO. 1	WPRW01P	PS-SW-PU1	MP	SKY WEST PUMP STATION	$ 5,590	2017	1983
Pump - Medium	SKY WEST PUMP NO. 2	WPRW02P	PS-SW-PU2	MP	SKY WEST PUMP STATION	$ 5,590	2017	1983

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Asset Class	Description	AssetID	Parent ID	Asset Class ID	Location	Replacement Cost	Estimate Renewal Year	Installation Year
Valve - Medium	WATER CHAMP KNIFE GATE VALVE	DVKG01	DECHL-MDF-WC	MV	MARINA DECHLORINATION STATION	$ 3,825	2021	1995
Valve - Medium	SURGE TOWER DRAIN LINE VALVE	HVSL02	FM-SR-HO	MV	FORCE MAIN - HAYWARD TO ORO LOMA	$ 10,000		1978
Mixer	SKY WEST MIXER (NORTH)	WMMX01G	PS-SW-WW	MX	SKY WEST PUMP STATION	$ 23,132	2025	1983
Mixer	SKY WEST MIXER (SOUTH)	WMMX02G	PS-SW-WW	MX	SKY WEST PUMP STATION	$ 23,132	2025	1983
Office Building	EBDA Office Building	EBBD01	OPS-BLDG	OFFICE	EBDA OPERATION CENTER	$ 750,000		1978
Tank - Outdoor	OLSD Dechlor Facility Chem Tank	OMST04	DECHL-ORO	OTK	ORO LOMA DECHLORINATION STATION	$ 15,000		2009
Tank - Outdoor	Dechlor station chemical tank	SMST01	DECHL-SL	OTK	SAN LEANDRO DECHLORINATION STATION	$ 3,000		2009
Pavement	Pavement at MDF	DBBD02	DECHL-MDF-BLDG1	PAV	MARINA DECHLORINATION STATION	$ 7,500	2021	1981
Pavement	Pavement at Oro Loma	OBBD03	PS-ORO	PAV	ORO LOMA PUMP STATION	$ 2,500		1978
Programmable Logic Controller	PLC NO. 1	AIPC01	PS-ALV-INST	PLC	ALVARADO EFFLUENT PUMP STATION	$ 12,600	2018	2008
Programmable Logic Controller	PROGRAMMABLE LOGIC CONTROLLER	HEPC01	PS-HAY-INST	PLC	HAYWARD PUMP STATION	$ 6,502	2019	1987
Programmable Logic Controller	PROGRAMMABLE LOGIC CONTR NO. 1	OIPC01	PS-ORO-INST	PLC	ORO LOMA PUMP STATION	$ 10,000	2023	2008
Programmable Logic Controller	PROGRAMMABLE LOGIC CONTR NO. 2	OIPC02	PS-ORO-INST	PLC	ORO LOMA PUMP STATION	$ 10,000	2023	2008
Programmable Logic Controller	PROGRAMMABLE LOGIC CONTR NO. 3	OIPC03	PS-ORO-INST	PLC	ORO LOMA PUMP STATION	$ 10,000	2023	2008
Panel	MAIN SWITCHBOARD - DISTRIBUTION	AEFE01	PS-ALV-ELEC	PNL	ALVARADO EFFLUENT PUMP STATION	$ 82,610	2021	1996
Panel	MAIN SWITCHBOARD NO. 4A	AEFE04A	PS-ALV-ELEC	PNL	ALVARADO EFFLUENT PUMP STATION	$ 28,914	2021	2004
Panel	MAIN SWITCHBOARD NO. 4B	AEFE04B	PS-ALV-ELEC	PNL	ALVARADO EFFLUENT PUMP STATION	$ 28,914	2021	2004
Panel	RELAY CABINET	DECP01	DECHL-MDF-BLDG1-INST	PNL	MARINA DECHLORINATION STATION	$ 12,018	2021	1981
Panel	BISULFITE PUMP CTRL PANEL - CP	DECP04	DECHL-MDF-BLDG2-INST	PNL	MARINA DECHLORINATION STATION	$ 7,618	2025	1995
Panel	BISULFITE SYSTEM CTRL PANEL - SCP	DECP05	DECHL-MDF-BLDG2-INST	PNL	MARINA DECHLORINATION STATION	$ 15,303	2025	1995
Panel	BISULFITE SYSTEM CTRL PANEL - HCP	DECP06	DECHL-MDF-BLDG2-INST	PNL	MARINA DECHLORINATION STATION	$ 15,303	2025	1995
Panel	BISULFITE ALARM PANEL - OUTSIDE	DECP07	DECHL-MDF-BLDG2-INST	PNL	MARINA DECHLORINATION STATION	$ 3,060	2025	1995
Panel	PANEL A	OECP01	PS-ORO-ELEC	PNL	ORO LOMA PUMP STATION	$ 3,000	2018	1981
Panel	PANEL B	OECP02	PS-ORO-ELEC	PNL	ORO LOMA PUMP STATION	$ 3,000	2018	1981
Panel	PANEL C	OECP03	PS-ORO-ELEC	PNL	ORO LOMA PUMP STATION	$ 3,000	2018	1981
Panel	PANEL D	OECP04	PS-ORO-ELEC	PNL	ORO LOMA PUMP STATION	$ 3,000	2018	1981
Panel	DISTRIBUTION PANEL	OECP07	PS-ORO-ELEC	PNL	ORO LOMA PUMP STATION	$ 12,133	2025	1981
Panel	FUEL TANK MONITORING SYSTEM	OECP08	PS-ORO-FS	PNL	ORO LOMA PUMP STATION	$ 16,956	2035	2015
Panel	MAIN SERVICE SWITCHBOARD	OECP09	PS-ORO-ELEC	PNL	ORO LOMA PUMP STATION	$ 229,542	2022	1981
Panel	Pump Station Control System	SEPC01	PS-SL-INST	PNL	SAN LEANDRO PUMP STATION	$ 53,973		2007
SCADA	EBDA SCADA/TELEMETRY SYSTEM	AITE01	OPS-SCADA	SCD	ALVARADO EFFLUENT PUMP STATION	$ 8,508	2017	2007
SCADA	SCADA Software (Citek & PC Anywhere)	EBDA151	OPS-SCADA	SCD	EBDA OPERATION CENTER	$ 5,321	2019	2008
SCADA	EBDA SCADA Alarm System	EBDA152	OPS-SCADA	SCD	EBDA OPERATION CENTER	$ 11,286	2018	2008
SCADA	EBDASCADA System	EITE01	OPS-SCADA	SCD	EBDA OPERATION CENTER	$ 106,426	2018	2008
SCADA	Data Acquisition System DAS	EBDA104B	OPS-SCADA	SCD	EBDA OPERATION CENTER	$ 15,000	2018	2002
SCADA	EBDA SCADA/TELEMETRY SYSTEM	HITE01	OPS-SCADA	SCD	HAYWARD PUMP STATION	$ 5,321	2018	2008
SCADA	SCADA System	SIET01	OPS-SCADA	SCD	SAN LEANDRO PUMP STATION	$ 21,589	2018	2007
Gate - Sluice or Slide	WET WELL CROSSOVER GATE	AVSG01	PS-ALV-WW	SG	ALVARADO EFFLUENT PUMP STATION	$ 41,305	2016	1981
Gate - Sluice or Slide	Site containment gate	SVSG06	DECHL-SL	SG	SAN LEANDRO DECHLORINATION STATION	$ 10,200		2009
Gate - Sluice or Slide	INLET GATE	HVSG01	PS-HAY-WW	SG	HAYWARD PUMP STATION	$ 27,545	2041	1981
Gate - Sluice or Slide	EFF PUMP NO. 1 INLET GATE	OVSG01I	PS-ORO-PU1	SG	ORO LOMA PUMP STATION	$ 79,575		1981
Gate - Sluice or Slide	EFF PUMP NO. 2 INLET GATE	OVSG02I	PS-ORO-PU2	SG	ORO LOMA PUMP STATION	$ 91,817		1981
Gate - Sluice or Slide	EFF PUMP NO. 3 INLET GATE	OVSG03I	PS-ORO-PU3	SG	ORO LOMA PUMP STATION	$ 91,817		1981
Gate - Sluice or Slide	EFF PUMP NO. 4 INLET GATE	OVSG04I	PS-ORO-PU4	SG	ORO LOMA PUMP STATION	$ 79,575		1981
Gate - Sluice or Slide	EFF PUMP NO. 5 INLET GATE	OVSG05I	PS-ORO-FAC	SG	ORO LOMA PUMP STATION	$ 30,605	2017	1981
Gate - Sluice or Slide	RECL WATER INFL GATE NO. 1	OVSG07I	PS-ORO-PU5	SG	ORO LOMA PUMP STATION	$ 6,184		1981
Gate - Sluice or Slide	RECL WATER INFL GATE NO. 2	OVSG08I	PS-ORO-PU6	SG	ORO LOMA PUMP STATION	$ 6,184		1981
Gate - Sluice or Slide	WET WELL NO. 1 INFLUENT GATE	OVSG09	PS-ORO-WW	SG	ORO LOMA PUMP STATION	$ 91,817		1981
Gate - Sluice or Slide	WET WELL NO. 2 INFLUENT GATE	OVSG10	PS-ORO-WW	SG	ORO LOMA PUMP STATION	$ 91,817		1981
Gate - Sluice or Slide	WET WELL CROSSOVER GATE	OVSG11	PS-ORO-WW	SG	ORO LOMA PUMP STATION	$ 91,817		1981
Gate - Sluice or Slide	ORO LOMA EFFLUENT GATE	OVSG12	PS-ORO-WW	SG	ORO LOMA PUMP STATION	$ 45,908	2017	1981
Gate - Sluice or Slide	Chlorine Contact Tank Sluice Gate	WVSG01	PS-SW-WW	SG	SKY WEST PUMP STATION	$ 15,000		1983

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Asset Class	Description	AssetID	Parent ID	Asset Class ID	Location	Replacement Cost	Estimate Renewal Year	Installation Year
Gate - Sluice or Slide	CHLORINE CONTACT GATE	SVSG01	PS-SL-FAC	SG	SAN LEANDRO PUMP STATION	$ 11,280	2016	1981
Gate - Sluice or Slide	S.L.P.S MAIN ENTRY GATE	SVSG02	PS-SL-FAC	SG	SAN LEANDRO PUMP STATION	$ 11,280	2016	1981
Gate - Sluice or Slide	NORTH PUMP CHAMBER GATE	SVSG03	PS-SL-WW	SG	SAN LEANDRO PUMP STATION	$ 11,280	2016	1981
Gate - Sluice or Slide	SOUTH PUMP CHAMBER GATE	SVSG04	PS-SL-WW	SG	SAN LEANDRO PUMP STATION	$ 11,280	2016	1981
Gate - Sluice or Slide	EMERGENCY OUTFALL GATE	SVSG05	PS-SL-FAC	SG	SAN LEANDRO PUMP STATION	$ 11,280	2016	1981
Motor - Small	Chemical Metering Pump Motor No. 1	DPCM01M	DECHL-MDF-PUM1	SM	MARINA DECHLORINATION STATION	$ 3,369	2017	2007
Motor - Small	Chemical Metering Pump Motor No. 2	DPCM02M	DECHL-MDF-PUM2	SM	MARINA DECHLORINATION STATION	$ 3,369	2017	2007
Motor - Small	Chemical Metering Pump Motor No. 3	DPCM03M	DECHL-MDF-PUM3	SM	MARINA DECHLORINATION STATION	$ 3,369	2017	2007
Motor - Small	Chemical feed pump's motor	OPCP01M	DECHL-ORO	SM	ORO LOMA DECHLORINATION STATION	$ 2,000	2016	2008
Sampler	AUTOMATIC SAMPLER NO. 1	DMAS01	DECHL-MDF-BLDG1-INST	SMP	MARINA DECHLORINATION STATION	$ 4,537	2016	2006
Sampler	AUTOMATIC SAMPLER NO. 2	DMAS02	DECHL-MDF-BLDG1-INST	SMP	MARINA DECHLORINATION STATION	$ 4,537	2016	2006
Pump - Small	BISULFITE SUMP PUMP NO. 1	DPSP05	DECHL-MDF-BISUL	SP	MARINA DECHLORINATION STATION	$ 4,131	2016	1995
Pump - Small	BISULFITE SUMP PUMP NO. 2	DPSP06	DECHL-MDF-BISUL	SP	MARINA DECHLORINATION STATION	$ 4,131	2016	1995
Pump - Small	Emergency overflow weir chemical feed pump system	SPCP01	DECHL-SL	SP	SAN LEANDRO DECHLORINATION STATION	$ 7,140	2019	2009
Pump - Small	Eff Pump No. 1 Oil Lube System	OGLU01	PS-ORO-PU1	SP	ORO LOMA PUMP STATION	$ 7,148	2024	1981
Pump - Small	Eff Pump No. 2 Oil Lube System	OGLU02	PS-ORO-PU2	SP	ORO LOMA PUMP STATION	$ 7,148	2024	1981
Pump - Small	Eff Pump No. 3 Oil Lube System	OGLU03	PS-ORO-PU3	SP	ORO LOMA PUMP STATION	$ 7,148	2024	1981
Pump - Small	Eff Pump No. 4 Oil Lube System	OGLU04	PS-ORO-PU4	SP	ORO LOMA PUMP STATION	$ 7,148	2024	1981
Pump - Small	Diesel fuel transfer pump no 1	OPFU01P	PS-ORO-FS	SP	ORO LOMA PUMP STATION	$ 3,000	2016	2004
Pump - Small	Diesel fuel transfer pump no 2	OPFU02P	PS-ORO-FS	SP	ORO LOMA PUMP STATION	$ 3,000	2018	2000
Pump - Small	Mechanical Hand Cranked Transfer Pump	OPFU03	PS-ORO-FS	SP	ORO LOMA PUMP STATION	$ 3,000	2022	1981
Pump - Small	Portable Fuel Transfer Pump	OPFU04	PS-ORO-FS	SP	ORO LOMA PUMP STATION	$ 3,000	2020	2000
Surge Tower	SURGE TOWER AT HAYWARD	FMSTHA	FM-SR-HO	ST	FORCE MAIN - ALVARADO TO HAYWARD	$ 2,000,000	2038	1978
Surge Tower	SURGE TOWER AT ORO LOMA	FMSTOL	FM-SR-HO	ST	FORCE MAIN - HAYWARD TO ORO LOMA	$ 2,000,000		1978
Surge Tower	SURGE TOWER AT SAN LEANDRO	FMSTSL	FM-NR-SM	ST	FORCE MAIN - SAN LEANDRO TO MDF	$ 2,000,000		1978
Surge Tower	SURGE TOWER AT USD T579901	FMSTUS	FM-SR-AH	ST	FORCE MAIN - ALVARADO TO HAYWARD	$ 2,000,000		1978
Structure	Dechlorination concrete slab	OBBD02	DECHL-ORO	STR	ORO LOMA DECHLORINATION STATION	$ 15,300		2009
Structure	HAYWARD EFFLUENT PUMP STATION BUILDING	HBBD01	PS-HAY-FAC	STR	HAYWARD PUMP STATION	$ 1,215,248	2041	1981
Structure	SKY WEST STRUCTURE	WBBD01	PS-SW-FAC	STR	SKY WEST PUMP STATION	$ 540,631		1983
Structure	San Leandro PS Structure	SBBD01	PS-SL-FAC	STR	SAN LEANDRO PUMP STATION	$ 2,781,585		2010
Transformer	SUBSTATION & TRANSFORMER	AETR01	PS-ALV-ELEC	TR	ALVARADO EFFLUENT PUMP STATION	$ 90,871	2016	1981
Transformer	BISULFITE FACILITY TRANSFORMER	DETR02	DECHL-MDF-BLDG2-INST	TR	MARINA DECHLORINATION STATION	$ 9,182	2025	1995
Transfer Switch	AUTO TRANSFER SWITCH	DETS01	DECHL-MDF-GEN	TSW	MARINA DECHLORINATION STATION	$ 14,179		2006
Transfer Switch	Manual Transfer Switch	HETS01	PS-HAY-ELEC	TSW	HAYWARD PUMP STATION	$ 6,076	2025	2000
Transfer Switch	AUTO TRANSFER SWITCH	OETS01A	PS-ORO-ELEC	TSW	ORO LOMA PUMP STATION	$ 9,528	2018	1981
Transfer Switch	Manual Power Transfer Switch	OETS02	PS-ORO-ELEC	TSW	ORO LOMA PUMP STATION	$ 7,383	2020	2000
Transfer Switch	Auto Transfer Switch	SETS01	PS-SL-ELEC	TSW	SAN LEANDRO PUMP STATION	$ 21,589		2007
Tank - Underground	FUEL OIL STORAGE TANK 1	OMST01	PS-ORO-FS	UTK	ORO LOMA PUMP STATION	$ 27,545	2021	1981
Tank - Underground	FUEL OIL STORAGE TANK 2	OMST02	PS-ORO-FS	UTK	ORO LOMA PUMP STATION	$ 27,545	2021	1981
Vehicle	2007 Ford Ranger 4WD	EBDA101	OPS-VEH	VEH	EBDA OPERATION CENTER	$ 21,762	2018	2007
Variable Frequency Drive	VARIABLE FREQ. DRIVE & H.F. NO. 1	AEVS01	PS-ALV-PU1	VFD	ALVARADO EFFLUENT PUMP STATION	$ 54,523	2016	1996
Variable Frequency Drive	VARIABLE FREQ. DRIVE & H.F. NO. 2	AEVS02	PS-ALV-PU2	VFD	ALVARADO EFFLUENT PUMP STATION	$ 54,523	2014	1996
Variable Frequency Drive	VARIABLE FREQ. DRIVE & H.F. NO. 3	AEVS03	PS-ALV-PU3	VFD	ALVARADO EFFLUENT PUMP STATION	$ 54,523	2016	1996
Variable Frequency Drive	VARIABLE FREQ. DRIVE & H.F. NO. 4	AEVS04	PS-ALV-PU4	VFD	ALVARADO EFFLUENT PUMP STATION	$ 62,784	2016	1996
Variable Frequency Drive	VARIABLE FREQ. DRIVE & H.F. NO. 5	AEVS05	PS-ALV-PU5	VFD	ALVARADO EFFLUENT PUMP STATION	$ 62,784	2016	1996
Variable Frequency Drive	VARIABLE FREQ. DRIVE & H.F. NO. 6	AEVS06	PS-ALV-PU6	VFD	ALVARADO EFFLUENT PUMP STATION	$ 62,784	2014	1996
Variable Frequency Drive	VFD No. 1	HEVS01	PS-HAY-PU1	VFD	HAYWARD PUMP STATION	$ 12,471	2016	2001
Variable Frequency Drive	VFD No. 3	HEVS03	PS-HAY-PU3	VFD	HAYWARD PUMP STATION	$ 11,684	2016	2001
Variable Frequency Drive	VFD No. 4	HEVS04	PS-HAY-PU4	VFD	HAYWARD PUMP STATION	$ 7,373	2022	2007
Variable Frequency Drive	VFD No. 2	HEVS02	PS-HAY-PU2	VFD	HAYWARD PUMP STATION	$ 7,373	2029	2014
Variable Frequency Drive	VARIABLE FREQUENCY DRIVE NO. 1	OEVS01A	PS-ORO-PU1	VFD	ORO LOMA PUMP STATION	$ 56,000	2019	2009
Variable Frequency Drive	VARIABLE FREQUENCY DRIVE NO. 2	OEVS02A	PS-ORO-PU4	VFD	ORO LOMA PUMP STATION	$ 56,000	2019	2009

Union Sanitary District
EBDA Fixed Asset Valuation as of May 2015

Asset Class	Description	AssetID	Parent ID	Asset Class ID	Location	Replacement Cost	Estimate Renewal Year	Installation Year
Variable Frequency Drive	VARIABLE FREQUENCY DRIVE NO. 1	SEVS01A	PS-SL-PU1	VFD	SAN LEANDRO PUMP STATION	$ 20,000	2024	2014
Variable Frequency Drive	VARIABLE FREQUENCY DRIVE NO. 2	SEVS02A	PS-SL-PU2	VFD	SAN LEANDRO PUMP STATION	$ 20,000	2017	2007
Variable Frequency Drive	VARIABLE FREQUENCY DRIVE NO. 3	SEVS03A	PS-SL-PU3	VFD	SAN LEANDRO PUMP STATION	$ 20,000	2017	2007
Variable Frequency Drive	VARIABLE FREQUENCY DRIVE NO. 4	SEVS04A	PS-SL-PU4	VFD	SAN LEANDRO PUMP STATION	$ 20,000	2017	2007
Wet Well	Alvarado PS Wet Well	AEPSWW	PS-ALV-WW	WW	ALVARADO EFFLUENT PUMP STATION	$ 350,000		1981
Wet Well	Hayward PS Wet Well	HEPSWW	PS-HAY-WW	WW	HAYWARD PUMP STATION	$ 850,000	2061	1981
Wet Well	Oro Loma PS Wet Well	OLEPSWW	PS-ORO-WW	WW	ORO LOMA PUMP STATION	$ 1,000,000		1977
Wet Well	Sky West PS Chlorine Contact Tank	WPSCCT	PS-SW-WW	WW	SKY WEST PUMP STATION	$ 500,000		1983
Wet Well	San Leandro PS Wet Well	SLEPSWW	PS-SL-WW	WW	SAN LEANDRO PUMP STATION	$ 250,000		1981
Yard Piping	Alvarado PS Facility Piping	AEPSPIPE	PS-ALV-FAC	YP	ALVARADO EFFLUENT PUMP STATION	$ 112,500		1981
Yard Piping	MDF Facility Piping	MDFPIPE	DECHL-MDF	YP	MARINA DECHLORINATION STATION	$ 1,200,000		1981
Yard Piping	Hayward PS Facility Piping	HEPSPIPE	PS-HAY-FAC	YP	HAYWARD PUMP STATION	$ 20,000	2041	1981
Yard Piping	Oro Loma PS Facility Piping	OLEPSPIPE	PS-ORO-FAC	YP	ORO LOMA PUMP STATION	$ 600,000		1977
Yard Piping	Sky West PS Facility Piping	WPSPIPE	PS-SW-FAC	YP	SKY WEST PUMP STATION	$ 5,000		1983
Yard Piping	San Leandro PS Facility Piping	SLEPSPIPE	PS-SL-FAC	YP	SAN LEANDRO PUMP STATION	$ 20,000		1981
TOTAL						**$ 278,673,045**		