BOARD MEETING AGENDA
Monday, April 25, 2016
Regular Meeting - 7:00 P.M.

Union Sanitary District
Administration Building
5072 Benson Road
Union City, CA 94587

1. Call to Order.

2. Pledge of Allegiance.

3. Roll Call.

Motion 4. Approve Minutes of the Special Meeting Closed Session of April 4, 2016.

Motion 5. Approve Minutes of the Meeting of April 11, 2016.

6. Monthly Operations Report for March 2016 *(to be reviewed by the Budget & Finance Committee).*

7. Written Communications.

8. Oral Communications.

The public may provide oral comments at regular and special Board meetings; however, whenever possible, written statements are preferred ***(to be received at the Union Sanitary District office at least one working day prior to the meeting)****. This portion of the agenda is where a member of the public may address and ask questions of the Board relating to any matter within the Board's jurisdiction that is not on the agenda. If the subject relates to an agenda item, the speaker should address the Board at the time the item is considered. Oral comments are limited to three minutes per individuals, with a maximum of 30 minutes per subject. Speaker's cards will be available in the Boardroom and are to be completed prior to discussion.*

Motion 9. Consider Adopting Three Resolutions: 1) Adopt, Amend, and Restate ICMA-RC 401(a) Plan #109522; 2) Adopt, Amend, and Restate ICMA-RC 401(a) Plan #109568; and 3) Adopt, Amend, and Restate ICMA-RC 401(a) Plan #109569 *(to be reviewed by the Budget & Finance Committee)*.

Motion 10. Consider a Resolution to Terminate the Emergency Action to Repair the 33-Inch Sewer on Alvarado Boulevard and Final Update on the Repairs *(to be reviewed by the Construction Committee)*.

Motion 11. Consider Adopting an Ordinance Providing for the Collection of Capacity Charges for Connection to the Main Sewers of Union Sanitary District *(to be reviewed by the Budget & Finance Committee)*.

Information 12. Information Items:

a. Check Register.

b. Cal-Card Quarterly Activity Report *(to be reviewed by the Budget & Finance Committee)*.

c. Board Expenditures for the 3rd Quarter of 2016 *(to be reviewed by the Budget & Finance Committee).*

Information 13. Committee Meeting Reports. *(No Board action is taken at Committee meetings):*

a. Construction Committee – scheduled for Wednesday, April 20, 2016, at 10:30 a.m.

b. Budget & Finance Committee – scheduled for Thursday, April 21, 2016, at 8:30 a.m.

c. Legislative Committee – will not meet

d. Legal/Community Affairs Committee – will not meet.

e. Personnel Committee – will not meet.

f. Ad Hoc Subcommittee for Communications Strategy.

Information 19. General Manager's Report. *(Information on recent issues of interest to the Board).*

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20. Other Business:

a. Comments and questions. *Directors can share information relating to District business and are welcome to request information from staff.*

b. Scheduling matters for future consideration.

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21. Adjournment – The Board will adjourn to the FY17 Operating Budget Board Workshop in the Boardroom on Wednesday, April 27, 2016, at 5:30 p.m.

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22. Adjournment – The Board will adjourn to the next Regular Meeting in the Boardroom on Monday, May 9, 2016, at 7:00 p.m.

The Public may provide oral comments at regular and special Board meetings; however, whenever possible, written statements are preferred (to be received at the Union Sanitary District at least one working day prior to the meeting).
If the subject relates to an agenda item, the speaker should address the Board at the time the item is considered. If the subject is within the Board's jurisdiction but not on the agenda, the speaker will be heard at the time "Oral Communications" is calendared. Oral comments are limited to three minutes per individual, with a maximum of 30 minutes per subject. Speaker's cards will be available in the Boardroom and are to be completed prior to discussion of the agenda item.

The facilities at the District Offices are wheelchair accessible. Any attendee requiring special accommodations at the meeting should contact the General Manager's office at (510) 477-7503 at least 24 hours in advance of the meeting.

THE PUBLIC IS INVITED TO ATTEND

NOTICE OF
COMMITTEE MEETING

All meetings will be held in
the General Manager's Office
5072 Benson Road, Union City, CA 94587

UNION SANITARY DISTRICT

BOARD MEETING OF APRIL 25, 2016

Committee Membership:

Budget and Finance	Directors Manny Fernandez and Pat Kite (Alt. – Jennifer Toy)
Construction Committee	Directors Tom Handley and Jennifer Toy (Alt. – Pat Kite)
Legal/Community Affairs	Directors Pat Kite and Anjali Lathi (Alt. – Tom Handley)
Legislative Committee	Directors Manny Fernandez and Tom Handley (Alt–Pat Kite)
Personnel Committee	Directors Manny Fernandez and Jennifer Toy (Alt. – Anjali Lathi)
Audit Committee	Directors Anjali Lathi and Jennifer Toy (Alt. Manny Fernandez)

Construction Committee, Wednesday, April 20, 2016, at 10:30 a.m.

10. Consider a Resolution to Terminate the Emergency Action to Repair the 33-Inch Sewer on Alvarado Boulevard and Final Update on the Repairs.

Budget & Finance Committee, Thursday, April 21, 2016, at 8:30 a.m.

6. Monthly Operations Report for March 2016.

9. Consider Adopting Three Resolutions: 1) Adopt, Amend, and Restate ICMA-RC 401(a) Plan #109522; 2) Adopt, Amend, and Restate ICMA-RC 401(a) Plan #109568; and 3) Adopt, Amend, and Restate ICMA-RC 401(a) Plan #109569.

11. Consider Adopting an Ordinance Providing for the Collection of Capacity Charges for Connection to the Main Sewers of Union Sanitary District.

12b. Cal-Card Quarterly Activity Report.

12c. Board Expenditures for the 3rd Quarter of 2016.

Committee meetings may include teleconference participation by one or more Directors.
(Gov. Code Section 54953 (b))
Committee Meetings are open to the public. Only written comments will be considered. No action will be taken.

MINUTES OF THE SPECIAL MEETING OF THE
BOARD OF DIRECTORS OF
UNION SANITARY DISTRICT
April 4, 2016

CALL TO ORDER

President Toy called the special meeting to order at 5:30 p.m.

ROLL CALL

PRESENT: Jennifer Toy, President
Tom Handley, Vice President
Pat Kite, Secretary
Anjali Lathi, Director
Manny Fernandez, Director

STAFF: Paul Eldredge, General Manager
Leah Castella, Assistant District Counsel

ORAL COMMUNICATIONS

There were no oral communications.

CLOSED SESSION

The Board adjourned to Closed Session for the following matter:

PUBLIC EMPLOYEE PERFORMANCE EVALUATION
Pursuant to Government Code Section 54957
Title: General Manager

The Board reconvened to Open Session with no reportable action.

ADJOURNMENT:

The special meeting was adjourned at approximately 8:00 p.m. to the next Regular Board Meeting in the Boardroom on Monday, April 11, 2016, at 7:00 p.m.

SUBMITTED:

_____
REGINA McEVOY
SECRETARY TO THE BOARD

ATTEST:

_____
PAT KITE
SECRETARY

APPROVED:

_____
JENNIFER TOY
PRESIDENT

Adopted this 25th day of April, 2016

MINUTES OF THE MEETING OF THE
BOARD OF DIRECTORS OF
UNION SANITARY DISTRICT
April 11, 2016

CALL TO ORDER

President Toy called the meeting to order at 7:00 p.m.

PLEDGE OF ALLEGIANCE

ROLL CALL

PRESENT: Jennifer Toy, President
Tom Handley, Vice President
Pat Kite, Secretary
Anjali Lathi, Director
Manny Fernandez, Director

STAFF: Paul Eldredge, General Manager
Leah Castella, District Counsel
Armando Lopez, Treatment & Disposal Services Manager
James Schofield, Collection Services Manager
Robert Simonich, Fabrication, Maintenance, and Construction Manager
Raymond Chau, Capital Improvements Projects (CIP) Coach
Michael Dunning, Environmental Compliance Coach
Regina McEvoy, Assistant to the General Manager/Board Secretary

APPROVAL OF THE MINUTES OF THE SPECIAL MEETING OF MARCH 21, 2016

It was moved by Secretary Kite, seconded by Director Fernandez, to approve the Minutes of the Special Meeting of March 21, 2016. Motion carried unanimously.

APPROVAL OF THE MINUTES OF THE MEETING OF MARCH 28, 2016

It was moved by Vice President Handley, seconded by Secretary Kite, to approve the Minutes of the Meeting of March 28, 2016. Motion carried unanimously.

WRITTEN COMMUNICATIONS

There were no written communications.

ORAL COMMUNICATIONS

There were no oral communications.

CONSIDER AUGUST 14, 2015, CLAIM FILED BY RICHARD AND DENISE TIFFER FOR ASSERTED LOSSES ASSOCIATED WITH DISTRICT MAINTENANCE ACTIVITIES

This item was reviewed by the Legal/Community Affairs Committee. District Counsel Castella stated Richard and Denise Tiffer filed a claim on August 14, 2015, for $341.64 in plumbing expenses incurred in 2014 and 2015. The Tiffer's allege plumbing services were necessitated by a blockage in the sewer main caused by a "water bullet". The claim was based on statements made to the Tiffer's by their plumber, Star Rooter, and the fact that the problem appeared to be resolved following a District sewer line cleanout completed June 12, 2015. District staff contacted Denise Tiffer on September 16, 2015, to request video footage showing the blockage to assess the claim. The District followed up via e-mail on September 25, 2015, informing Ms. Tiffer that the video had not been received. In the same email, the District informed Ms. Tiffer the claim could not proceed without the requested information. The District followed up again on February 19, 2016, and no additional information was provided by the claimants to date. Staff recommended the Board deny the claim filed by Richard and Denise Tiffer on August 14, 2015.

It was moved by Director Lathi, seconded by Secretary Kite, to Deny the Claim Filed by Richard and Denise Tiffer on August 14, 2015, for Asserted Losses Associated with District Maintenance Activities. Motion carried unanimously.

AWARD THE CONSTRUCTION CONTRACT FOR THE NEWARK BACKYARD SANITARY SEWER RELOCATION PROJECT – PHASE 3 TO MCGUIRE AND HESTER

This item was reviewed by the Construction Committee. CIP Coach Chau stated the Newark Backyard Sanitary Sewer Relocation Project – Phase 3 is the final phase of a project to improve the existing sewer system within the residential neighborhood located northerly of the intersection of Dairy Avenue and Cherry Street in the City of Newark. The goal of the project was to relocate existing backyard sewer mains and laterals to the public streets fronting the homes. Phase 3 of the project will include construction of approximately 3,000 linear feet of 8-inch diameter PVC sanitary sewer by open-cut method, and installation and connection of 4-inch diameter sanitary sewer laterals for approximately 100 residences. Four bids were received and opened on March 24, 2016, and McGuire and Hester was the apparent low bidder with a bid of $2,107,735. Staff recommended the Board award the construction contract for the Newark Backyard Sanitary Sewer Relocation Project – Phase 3 to McGuire and Hester in the amount of $2,107,735.

It was moved by Secretary Kite, seconded by Director Lathi, to Award the Construction Contract for the Newark Backyard Sanitary Sewer Relocation Project – Phase 3 to McGuire and Hester in the amount of $2,107,735. Motion carried unanimously.

AUTHORIZE THE GENERAL MANAGER TO EXECUTE AN AGREEMENT AND TASK ORDER NO. 1 WITH HARRIS AND ASSOCIATES TO PROVIDE CONSTRUCTION MANAGEMENT SERVICES FOR THE NEWARK BACKYARD SANITARY SEWER RELOCATION PROJECT

This item was reviewed by the Construction Committee. CIP Coach Chau stated the third and final phase of the project will include construction of approximately 3,000 feet of new sewer mains and relocation of 100 sanitary sewer laterals to new sanitary sewer mains along Bonnie Street, Zulmida Avenue, Wilma Avenue, and Noel Avenue in the City of Newark. The purpose of Task Order No. 1 is to authorize Harris and Associates to provide construction management services for the duration of the project. The total negotiated cost for the proposed services is $196,235. Staff recommended the Board authorize the General Manager to execute an agreement and task order no. 1 with Harris and Associates in the amount of $196,235 for construction management services for the Newark Backyard Sanitary Sewer Relocation Project – Phase 3.

It was moved by Vice President Handley, seconded by Director Fernandez, to Authorize the General Manager to Execute an Agreement and Task Order No. 1 with Harris and Associates in the Amount of $196,235 to Provide Construction Management Services for the Newark Backyard Sanitary Sewer Relocation Project – Phase 3. Motion carried unanimously.

REJECT THE SOLE BID RECEIVED FOR THE COGENERATION IMPROVEMENTS PROJECT

This item was reviewed by the Construction Committee. CIP Coach Chau stated the Cogeneration System and digester gas conditioning system (DGCS) were placed into operation in November 2014. Staff have since identified the need to provide localized cooling of the two cogeneration engines to improve their performance during hot weather. Staff also identified the need to individually shut down the digester gas blowers. There is also a need for additional emergency lights in the Cogeneration Building to enable staff to have adequate lighting during a power outage. The Cogeneration Improvements Project's major elements are: installation of two air conditioning units at the Cogeneration Building along with associated ducting, supports, and dampers; electrical modifications to the DGCS and addition of new circuit breakers for the digester gas blowers; and installation of new emergency lighting inside the Cogeneration Building to provide safe access to plant personnel during a power outage. The only bid received for the project was from D.W. Nicholson and was 50% over the Engineer's Estimate for the project. Staff will re-evaluate the project scope and determine if modifications are necessary to draw more interest in the project when it is re-bid. Staff recommended the Board reject the sole bid received from D.W. Nicholson Corporation for the Cogeneration Improvements Project.

It was moved by Director Fernandez, seconded by Vice President Handley, to Reject the Sole Bid Received for the Cogeneration Improvements Project. Motion carried unanimously.

REJECT ALL BIDS RECEIVED FOR THE PINE STREET EASEMENT IMPROVEMENTS PROJECT AND AUTHORIZE STAFF TO RE-BID THE PROJECT

This item was reviewed by the Construction Committee. CIP Coach Chau stated the District owns and maintains a 12-inch diameter sewer main that parallels Mammoth Creek in southeastern Fremont. The sewer main aerially crosses a small creek tributary to Mammoth Creek behind the residences on Sabercat Place. Erosion has exposed approximately two feet of the eastern foundation's side. Though there has not been damage to the bridge or pipeline to date, further soil movements and erosion may result in damage and could expose the creek to wastewater. The Pine Street Easement Improvements Project would eliminate structural dependence upon the eastern pier by constructing a stronger eastern abutment and strengthening the existing bridge span. Details regarding the two non-responsive bids received for the project were included in the Board meeting packet. Public Contract Code Section 20805 allows the District to reject bids in its discretion. Since both bids were found to be non-responsive, staff recommended the Board reject all bids received for the project and authorize staff to re-bid the project.

It was moved by Vice President Handley, seconded by Director Lathi, to Reject All Bids Received for the Pine Street Easement Improvements Project and Authorize Staff to Re-Bid the Project. Motion carried unanimously.

CONSIDER CONFIRMING AND DECLARING THE NEED TO CONTINUE THE EMERGENCY ACTION TO REPAIR THE 33-INCH SEWER ON ALVARADO BOULEVARD AND UPDATE ON THE REPAIRS

This item was reviewed by the Construction Committee. CIP Coach Chau stated on March 23 and 29, 2016, PG&E re-installed and reconnected the gas line which was disconnected and removed during Phase 1. A storm drain line temporarily relocated to facilitate the shaft excavation was replaced on April 4-5, 2016. Street paving is expected to begin the week of April 11, 2016. The estimated date for substantial completion is April 15, 2016, at which time it is anticipated the road will be re-opened and normal traffic operations will resume.

Pursuant to Public Contract Code section 22050, the Board is required to review the status of the emergency action at each subsequent meeting until the emergency action is terminated. Authorization to continue the emergency action must be approved by a four-fifths vote of the Board. Staff recommended the Board approve a motion to confirm and declare the need to continue the emergency action to repair the 33-inch sewer on Alvarado Boulevard.

It was moved by Director Fernandez, seconded by Secretary Kite, to Confirm and Declare the Need to Continue the Emergency Action to Repair the 33 Inch Sewer on Alvarado Boulevard. Motion carried unanimously.

REVIEW AND APPROVE PROPOSED CHANGES TO POLICY NO. 3210, BOARDMEMBER USE OF EMAIL FOR DISTRICT BUSINESS

This item was reviewed by the Personnel Committee. District Counsel Castella stated that on September 28, 2015, the Board considered options regarding revisions to the Use of Email for District Business Policy ("Email Policy") that was adopted in April 2014. The

Board requested staff revise the Policy in accordance with the conversation at the September 28, 2015, Board meeting and bring it back for further consideration. The updated version of the policy included in the Board meeting packet incorporated the following revisions: updated the procedure for assigning and managing individual Board e-mails; created a general Board e-mail account and established procedures for staff monitoring of that account; and created procedures for staff response to the general Board e-mail account. Staff recommended the Board take one of the following actions:

a. Approve the policy as drafted.
b. Approve the policy with amendments.
c. Form an Ad-Hoc Committee and send policy to committee for revisions.
d. Send the item to a future Board workshop for additional discussion

The Board requested clarifying language be added to the last paragraph of the policy to more clearly indicate staff may reply to emails with requested information. The Board also requested text be added to provide greater flexibility for the manner in which emails received are added to a Board meeting agenda for discussion.

It was moved by Director Lathi, seconded by Director Fernandez, to Approve Proposed Changes Including Additional Edits Proposed at the Meeting to Policy No. 3210, Boardmember Use of Email for District Business. Motion carried unanimously.

REVIEW AND APPROVE PROPOSED CHANGES TO POLICY NO. 3060, COMMUNICATION BY MEMBERS OF THE BOARD OF DIRECTORS

This item was reviewed by the Personnel Committee. District Counsel Castella stated the September 28, 2015, Board meeting included a discussion regarding revisions to the communications policy for Board Members. The updated version of the policy incorporated the following revisions: established a detailed set of protocols for Boardmembers to adhere to when responding to communications from the public; established best practices for ensuring the public is informed of and able to meaningfully participate in Boardmember decision-making; established a set of protocols for staff to adhere to when responding to communications sent to Boardmembers; created a method for agendizing for discussion items raised in communications from the public. Staff recommended the Board take one of the following actions:

a. Approve the policy as drafted.
b. Approve the policy with amendments.
c. Form an Ad-Hoc Committee to review and revise the policy.
d. Send the item to a future Board workshop for additional discussion.

The Board discussed concerns regarding proposed changes to Policy No. 3060.

The Board directed staff to incorporate the edits discussed at the meeting, and agreed by consensus to continue the item to the Board meeting to be held May 9, 2016.

INFORMATION ITEMS:

Check Register

All questions were answered to the Board's satisfaction.

Certificates of Merit to Union Sanitary District's Class I Permitted Industries
This item was reviewed by the Legal/Community Affairs Committee. A desk item was presented for this item to correct errors contained in the report included in the Board meeting packet, and the desk item was incorporated into the Board meeting packet. Environmental Compliance Coach Dunning stated the Certificates of Merit event is an annual event held to recognize industries that have exceeded the requirements of their wastewater discharge permits during the prior calendar year and have demonstrated continued commitment to protecting the environment. The District invited representatives from 33 Significant Industrial Users with Class I Wastewater Discharge Permits to receive Certificates of Merit on May 25, 2016, at 3:00 p.m. in the Boardroom.

Earth Day 2016
This item was reviewed by the Legal/Community Affairs Committee. Environmental Compliance Coach Dunning stated Environmental Compliance staff will participate in the Earth Day event to be hosted by the City of Fremont and Washington Hospital. The event will be held at Washington Hospital's Conrad E. Anderson. M.D. Auditorium, at 2500 Mowry Avenue in Fremont from 11:00 a.m. – 3:00 p.m. on Saturday, April 23, 2016.

Director Lathi requested PDF files of the Earth Day event advertisements be emailed to the Board.

COMMITTEE MEETING REPORTS:
The Construction, Legal/Community Affairs, and Personnel Committees met.

GENERAL MANAGER'S REPORT:
General Manager Eldredge reported the following:

- The Newark Chamber of Commerce will host the Newark State of the City Luncheon on Thursday, April 21, 2016.
- There was a Category 3 spill on April 6, 2016, on Paseo Padre Parkway in Fremont. A cleanout was overflowing due to a main plugged with grease. Staff worked quickly to recover all that was spilled, approximately 1,000 gallons, and ensured none of the spill entered any waterways. Although the sewer line is on a standard maintenance program, staff will adjust maintenance activities as needed.
- District staff will hold a public information meeting regarding the Newark Backyard Sanitary Sewer Relocation Project – Phase 3. The meeting will be held at the James Graham Elementary School Multi-Purpose Room located at 36270 Cherry Street in Newark on Thursday, April 21, 2016, beginning at 6:00 p.m.
- The Academic Core Buildings Project Groundbreaking will be held at Ohlone College on April 13, 2016.
- Dublin San Ramon Services District (DSRSD) appointed Daniel McIntyre as the new General Manager. Mr. McIntyre recently served as the Engineering Services Manager at DSRSD and was the Public Works Director for the City of Livermore.

- The District received its annual letter from the California Sanitation Risk Management Authority (CSRMA) stating the X-Mod was 0.72, which is the lowest in District history.

OTHER BUSINESS:

Vice President Handley stated he recently attended a meeting of the Bay East Association of Realtors and was approached regarding potential future requirements for inspection of sewer laterals.

Director Lathi expressed interest in attending the California Water Environment Association (CWEA) conference to be held in Santa Clara, April 26 – 29, 2016. Pursuant to Board Policy No. 3030, Director Lathi requested Board approval for overnight accommodations at the conference due to physical limitations which make it difficult for her to drive. The Board approved Director Lathi's request by consensus.

ADJOURNMENT:

The meeting was adjourned at 8:12 p.m. to the Newsletter Draft Layout and Content Review Board Workshop to be held in the Alvarado Conference Room on Tuesday, April 19, 2016, at 11:30 a.m.

The Board will then adjourn to the next scheduled Regular Board Meeting to be held in the Boardroom on Monday, April 25, 2016, at 7:00 p.m.

SUBMITTED:

_____
REGINA McEVOY
SECRETARY TO THE BOARD

ATTEST:

_____
PAT KITE
SECRETARY

APPROVED:

_____
JENNIFER TOY
PRESIDENT

Adopted this 25th day of April, 2016

DATE: April 19, 2016

TO: Board of Directors - Union Sanitary District

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

SUBJECT: Agenda Item No. 6 - Meeting of April 25, 2016
Information Item: **Monthly Operations Report for March 2016**

Background

Attached are Monthly Operations Reports for March 2016. Staff is available to answer questions regarding information contained in the report.

Work Group Managers

General Manager/Administration	Paul Eldredge	GM
Business Services	Pamela Arends-King	BS
Collection Services	James Schofield	CS
Technical Support	Sami Ghossain	TS
Treatment and Disposal Services	Armando Lopez	T&D
Fabrication, Maintenance, and Construction	Robert Simonich	FMC

ODOR COMPLAINTS:
There were two odor complaints received during the month of March 2016. The complaint received from a Fremont resident was investigating by District staff and no odor was found. A Union City resident contacted the District when they heard a loud noise coming from their bathroom followed by an odor. A District hydro crew was cleaning in the area and had sucked water out of the resident's P-Traps allowing odors to be released. District staff advised the resident to fill the P-Traps and flush toilets in the home, and to contact the District should the odor return.

SAFETY:
- The two employees that had injuries in the past few months are back to work and were back to full duty by the end of the month.

- We had an employee decline medical treatment after a minor injury while working in the treatment plant.
- While working in the street, we had one USD vehicle hit another USD vehicle and cause minor damage. Driver was not paying attention.
- We completed our annual hearing tests and respirator fit testing.
- A contractor at the Patterson Ranch development spilled fuel into one of our manholes. We completed a debrief with our employees to make sure our response and procedures are appropriate for this type of incident and procedures were followed for this incident.

STAFFING & PERSONNEL:

Recruitments Opened:

- Assistant/Associate Engineer recruitment opened March 7, 2016.
- Training and Emergency Response Program Manager recruitment opened March 9, 2016.

Other Accomplishment:

- Leadership School Development

G.M. ACTIVITIES: For the month of March, the GM was involved in the following:

- Participated in the "Read Across America" event at Delaine Eastin Elementary School in Union City.
- Participated in hiring interviews for the TPO Night Coach position.
- Participated in the Communications Strategy Ad-Hoc Committee meeting.
- Met with Alameda County Water District staff to discuss potential collaboration opportunities.
- Attended the Seismic Study and New CIP Budget Format Combined Board Workshop.

Attachments: Odor Report and Map
Hours Worked and Leave Time by Work Group
Financial Reports
Business Services
Technical Services
Collection Services
Fabrication, Maintenance, and Construction
Treatment and Disposal Services

ODOR REPORT
March 2016

During the recording period from March 01, 2016 through March 31, 2016, there were two odor related service requests received by the District.

City: Fremont

1. ***Complaint Details:***

Date: 3/15/2016 *Time:* 10:00 am
Location: MOWRY AV *Reported By:* Fran Hoang
Wind (from): N/A *Wind Speed:* N/A mph
Temperature: 68 Degrees F *Weather:* Sunny

Response and Follow-up:
We inspected USD mains, storm drains and inlets in the area. We found no standing water, no stoppages and no odors emanating from our mains. It was trash day and odors were emanating from the trash dumping. We relayed our findings to Fran and told her to call us back should any odors return.

City: Union City

2. ***Complaint Details:***

Date: 3/17/2016 *Time:* 11:25 am
Location: SANTA MONICA WY *Reported By:* Carmen Consignado
Wind (from): N/A *Wind Speed:* N/A mph
Temperature: 77 Degrees F *Weather:* Sunny

Response and Follow-up:
We inspected our USD mains and they were flowing fine. The resident heard a loud noise from the bathroom and then smelled a bad odor. Our hydro crew were cleaning in the area and had sucked water out of the P-Traps allowing odors to be released. We relayed this information to the resident and told her to fill the P-Traps with water and flush toilets to create a seal. She could also turn on fans and run them till the odor is gone. We told her to call us back should any more odors return.

Legend

Odor Complaints: March 2016

- ★ Odor found, USD resolved (1)
- ● Odor found, not related to USD (1)
- ▲ No odor found (0)

Odor Complaints: Apr. 2015 to Feb. 2016

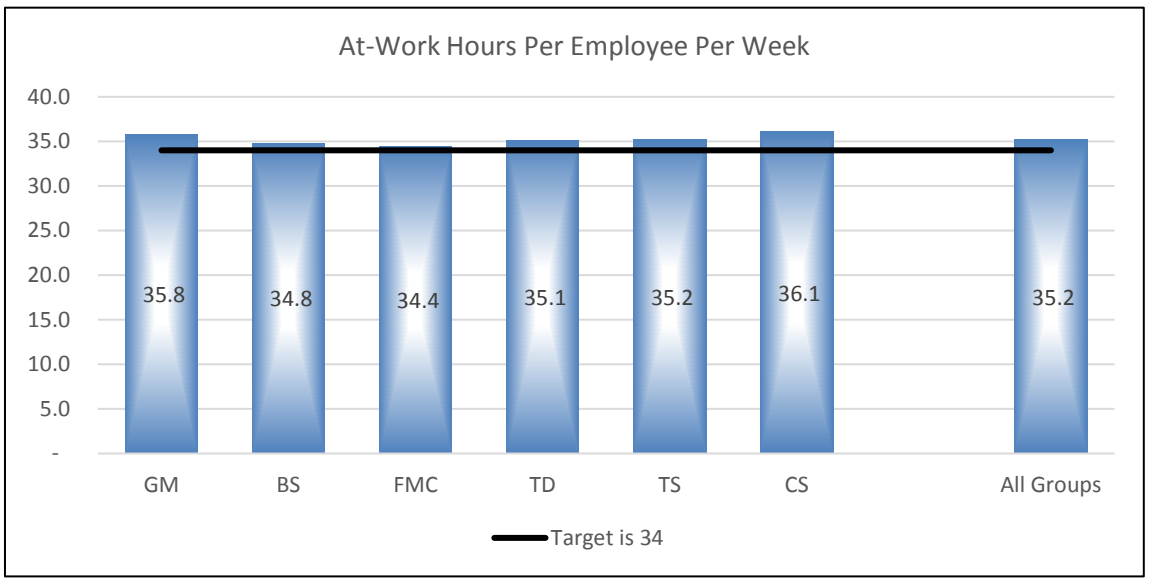
- ★ Odor found, USD resolved (8)
- ● Odor found, not related to USD (7)
- ▲ No odor found (12)

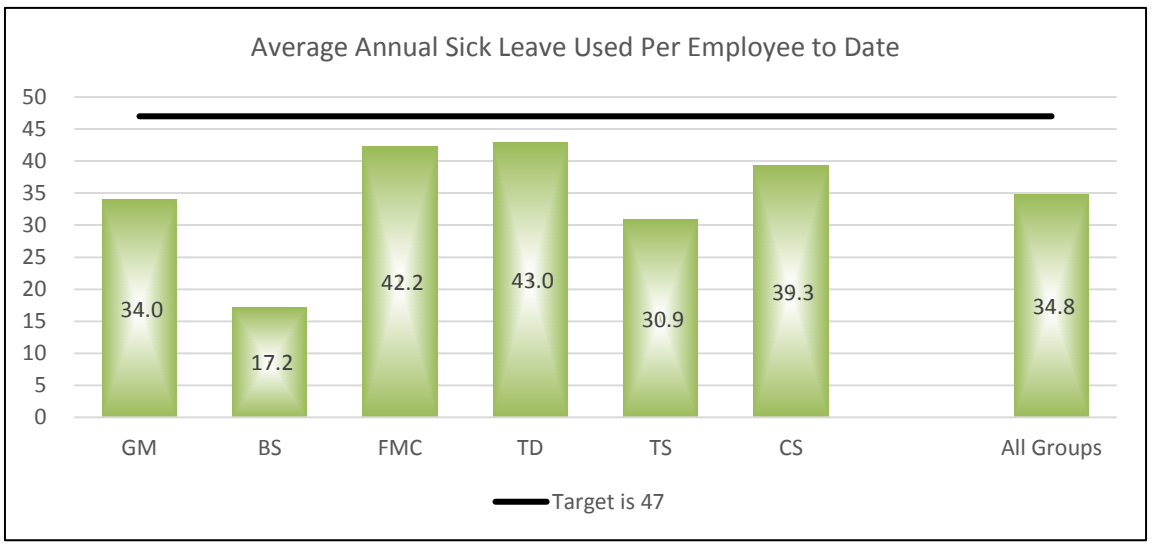
Location of Odor Reports April 2015 to March 2016

0 0.5 1 2 3 4 5 Miles

N W E S

HOURS WORKED AND LEAVE TIME BY WORK GROUP
July 2, 2015 through April 6, 2016
Weeks to Date: 40 out of 52 (79.6%)





NOTES

(1) Regular hours does not include hours worked by part-time or temporary employees.
(2) Overtime hours includes call outs.
(3) Discretionary Leave includes Vacation, HEC, Holiday, MAL, FLEX, Funeral, Jury Duty, Military, OT Banked Use, Paid Admin., SLIP, VRIP, Holiday Banked Use leaves.
(4) Sick Leave includes sick and catastrophic sick leaves as well as protected time off, of which the District has no discretion.

An employee using 15 vacation, 11 holiday, 2 HEC, and 5 sick days will work an average of **34.9** hours per week over the course of a year; with 20 vacation days, **34.2** hours per week.

HOURS WORKED AND LEAVE TIME BY WORK GROUP
July 2, 2015 through April 6, 2016
Weeks to Date: 40 out of 52 (79.6%)

Group	Average Number of Employees	AT-WORK HOURS		At-Work Hours Per Employee Per Week	LEAVE HOURS				Average Annual Sick Leave Used Per Employee To Date	FY15		
		Regular (1)	Overtime (2)		Discretionary (3)	Short Term Disability	Workers Comp	Sick (4)		Average Number of Employees	At-Work Hours Per Week Per Employee	Annual Sick Leave Used
GM	2	2,797.00	53.75	35.8	335.00	-	-	68.00	34.0	3	34.4	28.8
BS	22	30,211.77	318.19	34.8	4,734.26	-	-	378.81	17.2	22	35.3	30.2
FMC	22	29,573.25	587.94	34.4	4,209.50	260.37	-	928.88	42.2	23	34.2	52.4
TD	25	34,070.92	940.91	35.1	4,421.33	333.19	-	1,074.56	43.0	25	35.3	24.1
TS	31	43,161.60	324.78	35.2	5,684.20	18.67	-	957.33	30.9	30	35.0	28.1
CS	30	40,639.01	2,511.11	36.1	6,250.34	102.87	323.00	1,179.48	39.3	29	36.8	68.4
All Groups	**132**	**180,453.55**	**4,736.68**	**35.2**	**25,634.63**	**715.10**	**323.00**	**4,587.06**	**34.8**	**132**	**35.3**	**40.8**

SICK LEAVE INCENTIVE PROGRAM TARGETS **≥34** **≤47**

The Sick Leave Incentive Program target goals are 47 or less hours of sick leave per employee annually, and 34 or more hours of at-work time per week per employee.

NOTES

(1) Regular hours does not include hours worked by part-time or temporary employees.

(2) Overtime hours includes call outs.

(3) Discretionary Leave includes Vacation, HEC, Holiday, MAL, FLEX, Funeral, Jury Duty, Military, OT Banked Use, Paid Admin., SLIP, VRIP, Holiday Banked Use leaves.

(4) Sick Leave includes sick and catastrophic sick leaves, as well as protected time off, of which the District has no discretion.

An employee using 15 vacation, 11 holiday, 2 HEC, and 5 sick days will work an average of **34.9** hours per week over the course of a year;
with 20 vacation days, **34.2** hours per week.

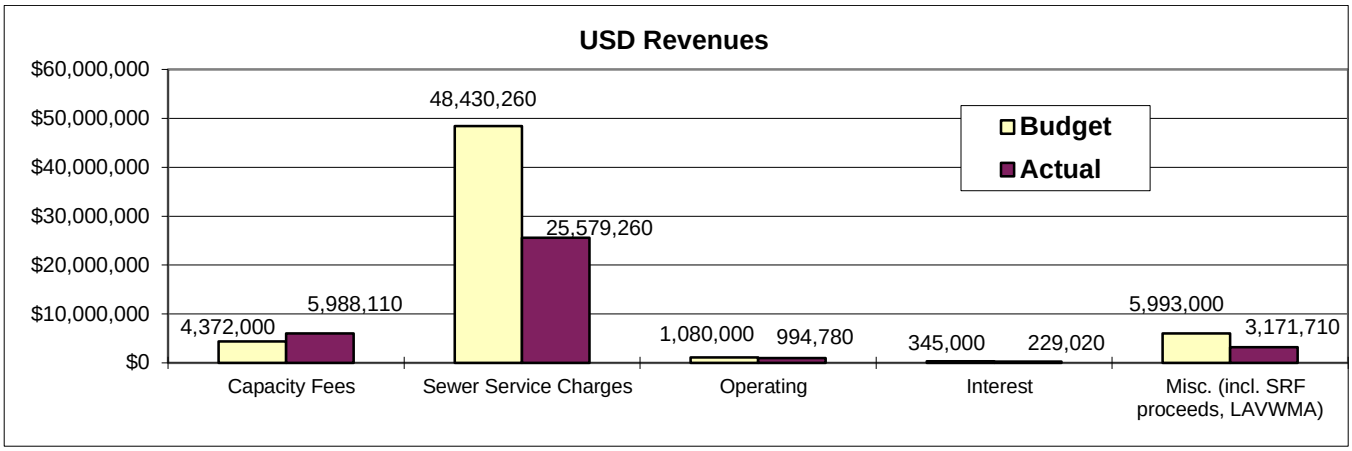
BUDGET AND FINANCE REPORT

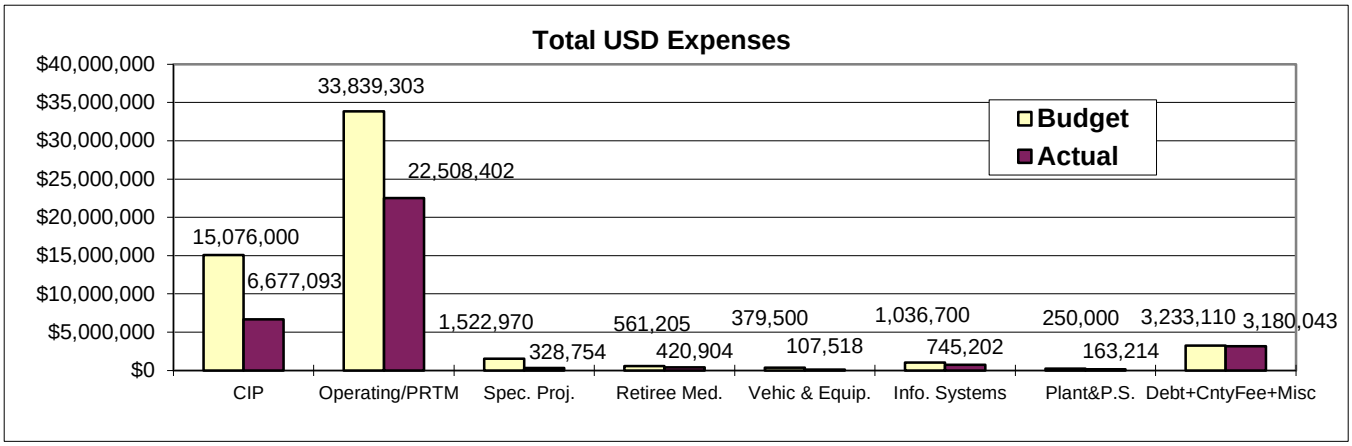
FY 2016	Year-to-date as of 3/31/16		75% of year elapsed	
Revenues	**Budget**	**Actual**	**% of Budget Rec'd**	**Audited Last Year Actuals 6/30/15**
Capacity Fees	$4,372,000	$5,988,110	137%	$4,820,637
Sewer Service Charges	48,430,260	25,579,260	53%	48,379,254
Operating	1,080,000	994,780	92%	1,143,435
Interest	345,000	229,020	66%	309,600
Misc. (incl. LAVWMA pymnt, solar, Cogen rebates)	493,000	348,494	71%	2,127,594
Subtotal Revenues	$54,720,260	$33,139,664	61%	$56,780,521
SRF Loan Proceeds (Thickener)	5,500,000	2,823,216	51%	4,501,122
Total Revenues + SRF Proceeds	**$60,220,260**	**$35,962,880**	**60%**	**$61,281,643**
Expenses	**Budget**	**Actual**	**% of Budget Used**	**Last Year Actuals**
Capital Improvement Prog.				
Capacity Projects	$4,523,000	$1,931,224	43%	$3,755,472
Renewal & Repl. Projects	10,553,000	4,745,870	45%	12,194,927
Operating	33,827,303	22,484,549	66%	30,058,848
Special Projects	1,522,970	328,754	22%	1,065,653
Retiree Medical (Annual Required Contribution)	561,205	420,904	75%	543,540
Vehicle & Equipment	379,500	107,518	28%	787,159
Information Systems	1,036,700	745,202	72%	616,117
Plant & Pump Station R&R	250,000	163,214	65%	168,089
Pretreatment Fund	12,000	23,853	199%	109,499
County Fee for Sewer Service Charge Admin.	106,000	52,933	50%	105,559
Debt Servicing:				
SRF Loans (Irv.,Wilw,LHH,Cdr,NPS, Sub1,Boyc,Prim Cl)	3,127,110	3,127,110	100%	3,127,110
Total Expenses	**$55,898,788**	**$34,131,130**	**61%**	**$52,531,974**
Total Revenue & Proceeds less Expenses	***$4,321,472***	***$1,831,750***		***$8,749,669***

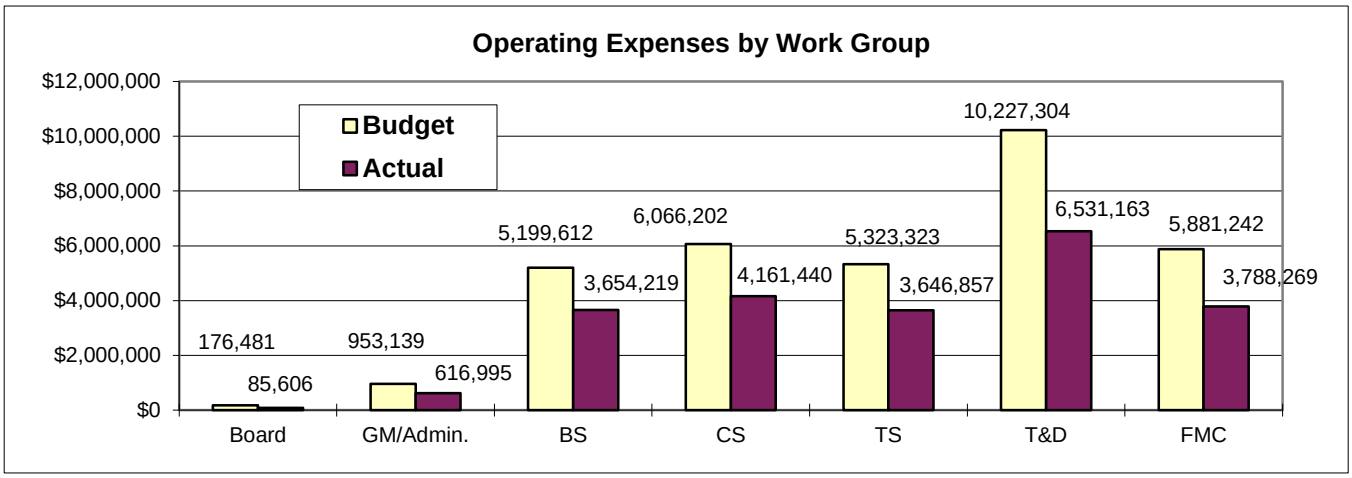
Gross Operating Expenses by Work Group	**Budget**	**Actual**	**% of Budget Used**	**Last Year Actuals**
Board of Directors	$176,481	$85,606	49%	$135,699
General Manager/Admin.	953,139	616,995	65%	987,502
Business Services	5,199,612	3,654,219	70%	4,460,485
Collection Services	6,066,202	4,161,440	69%	5,447,126
Technical Services	5,323,323	3,646,857	69%	4,693,517
Treatment & Disposal Services	10,227,304	6,531,163	64%	9,172,622
Fabrication, Maint. & Construction	5,881,242	3,788,269	64%	5,161,897
Total	$33,827,303	$22,484,549	66%	**$30,058,848**

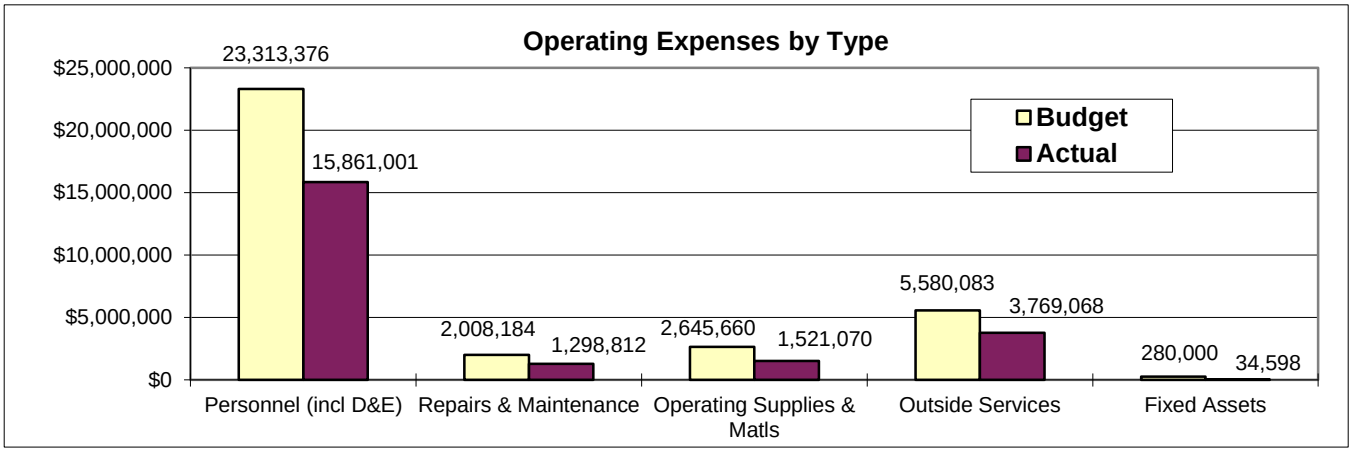
Operating Expenses by Type	**Budget**	**Actual**	**% of Budget Used**	**Last Year Actuals**
Personnel (incl D&E)	$23,313,376	$15,861,001	68% (74%)*	$20,901,890
Repairs & Maintenance	2,008,184	1,298,812	65%	1,772,819
Supplies & Matls (chemicals, small tools)	2,645,660	1,521,070	57%	2,285,558
Outside Services (utilities, biosolids, legal)	5,580,083	3,769,068	68%	4,961,560
Fixed Assets	280,000	34,598	12%	137,021
Total	$33,827,303	$22,484,549	66%	**$30,058,848**

* Personnel Budget Target


USD Revenues
$60,000,000
$50,000,000
$40,000,000
$30,000,000
$20,000,000
$10,000,000
$0
Budget
Actual
4,372,000
5,988,110
48,430,260
25,579,260
1,080,000
994,780
345,000
229,020
5,993,000
3,171,710
Capacity Fees
Sewer Service Charges
Operating
Interest
Misc. (incl. SRF proceeds, LAVWMA)


Total USD Expenses
$40,000,000
$35,000,000
$30,000,000
$25,000,000
$20,000,000
$15,000,000
$10,000,000
$5,000,000
$0
Budget
Actual
15,076,000
6,677,093
33,839,303
22,508,402
1,522,970
328,754
561,205
420,904
379,500
107,518
1,036,700
745,202
250,000
163,214
3,233,110
3,180,043
CIP
Operating/PRTM
Spec. Proj.
Retiree Med.
Vehic & Equip.
Info. Systems
Plant&P.S.
Debt+CntyFee+Misc


Operating Expenses by Work Group
$12,000,000
$10,000,000
$8,000,000
$6,000,000
$4,000,000
$2,000,000
$0
Budget
Actual
176,481
85,606
953,139
616,995
5,199,612
3,654,219
6,066,202
4,161,440
5,323,323
3,646,857
10,227,304
6,531,163
5,881,242
3,788,269
Board
GM/Admin.
BS
CS
TS
T&D
FMC

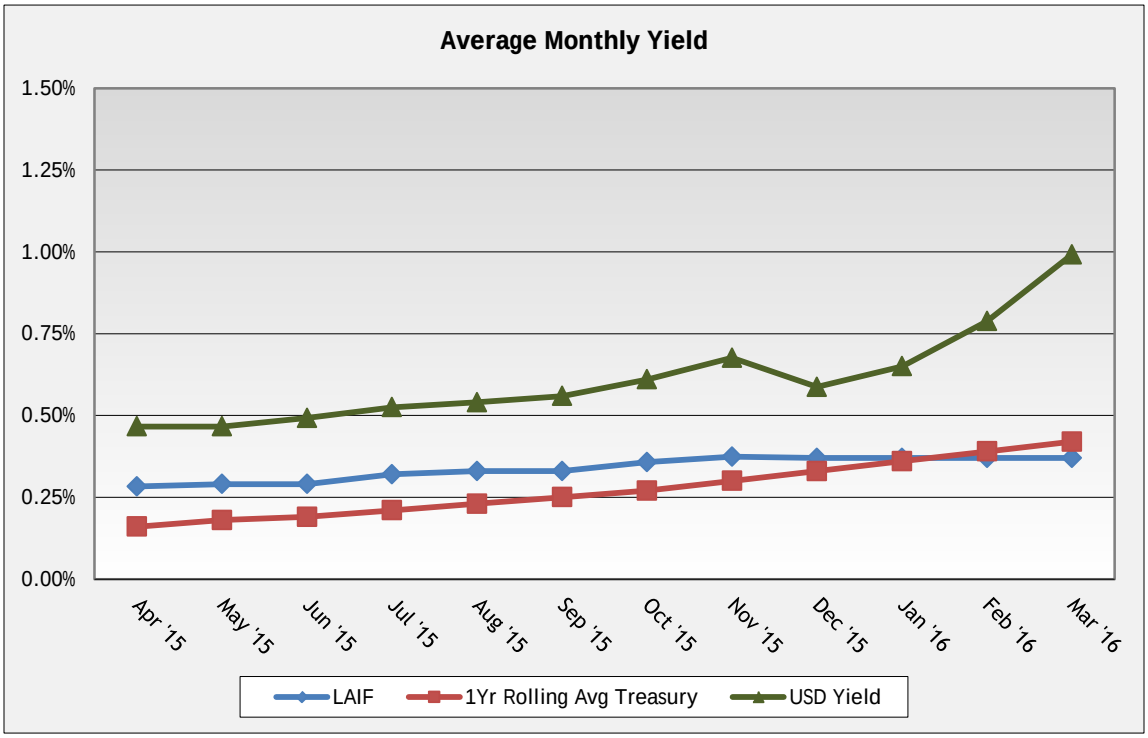

Operating Expenses by Type
$25,000,000
$20,000,000
$15,000,000
$10,000,000
$5,000,000
$0
Budget
Actual
23,313,376
15,861,001
2,008,184
1,298,812
2,645,660
1,521,070
5,580,083
3,769,068
280,000
34,598
Personnel (incl D&E)
Repairs & Maintenance
Operating Supplies & Matls
Outside Services
Fixed Assets

Business Services Group
Activities Report
March 2016

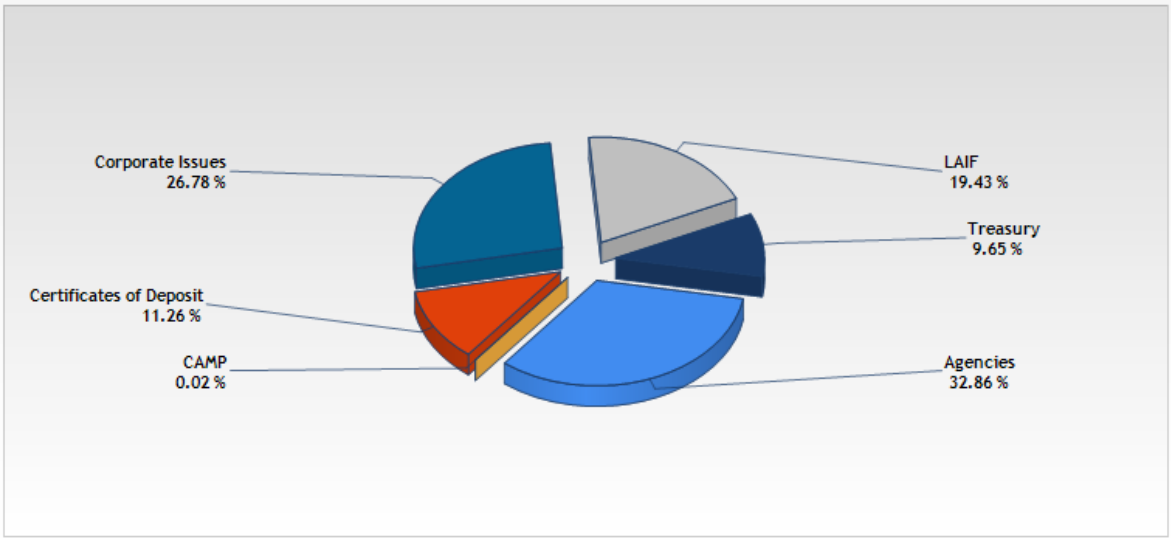
Accomplishments

- The new phone system went live.
- The USD Leadership School was developed.

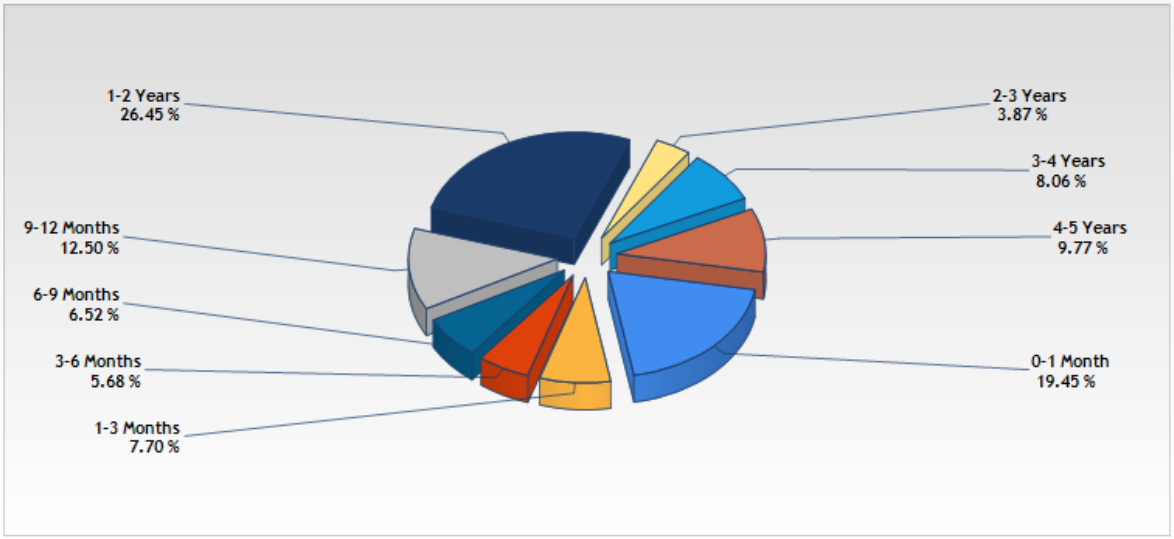
Performance Measures for the USD Investment Portfolio



Portfolio Holdings Distribution by Asset Class



Portfolio Holdings Distribution by Maturity Range



Union Sanitary District
Board Report - Holdings
Report Format: By Transaction
Group By: Asset Class
Portfolio/Report Group: All Portfolios
As of 3/31/2016

Description	CUSIP/Ticker	Credit Rating 1	Settlement Date	Face Amount/Shares	Cost Value	Coupon Rate	Market Value	YTM @ Cost	Next Call Date	Maturity Date	% of Portfolio
Agencies											
FFCB 0.9 9/21/2017	3133EFN78	Moodys-Aaa	3/21/2016	1,000,000.00	1,000,000.00	0.900	1,002,240.00	0.900		9/21/2017	1.93
FFCB 0.93 11/17/2017	3133EFPH4	Moodys-Aaa	11/18/2015	1,000,000.00	999,700.00	0.930	1,002,800.00	0.945		11/17/2017	1.93
FFCB 1.59 3/23/2020-17	3133EFR25	Moodys-Aaa	3/23/2016	1,000,000.00	1,000,000.00	1.590	1,002,240.00	1.590	3/23/2017	3/23/2020	1.93
FHLB 0.625 11/23/2016	3130A3J70	Moodys-Aaa	12/16/2015	1,000,000.00	999,000.00	0.625	1,000,470.00	0.732		11/23/2016	1.93
FHLB 0.75 7/28/2017-16	3130A4ZV7	Moodys-Aaa	4/28/2015	1,000,000.00	1,000,000.00	0.750	1,000,060.00	0.750	4/28/2016	7/28/2017	1.93
FHLB 0.8 5/17/2017	3130A4Q54	Moodys-Aaa	3/27/2015	1,000,000.00	1,001,690.00	0.800	1,002,450.00	0.720		5/17/2017	1.94
FHLB 0.9 9/28/2017	3130A5KH1	Moodys-Aaa	7/22/2015	1,000,000.00	1,001,140.00	0.900	1,002,610.00	0.847		9/28/2017	1.93
FHLB 1 3/29/2018-17	3130A7MB8	Moodys-Aaa	3/29/2016	1,000,000.00	1,000,000.00	1.000	1,000,230.00	1.000	3/29/2017	3/29/2018	1.93
FHLB Step 2/26/2021-16	3130A76Q3	Moodys-Aaa	2/26/2016	2,000,000.00	2,000,000.00	0.750	2,000,280.00	2.138	5/26/2016	2/26/2021	3.86
FHLB Step 3/15/2021-16	3130A7EG6	Moodys-Aaa	3/15/2016	1,000,000.00	1,000,000.00	1.000	999,720.00	2.216	6/15/2016	3/15/2021	1.93
FHLMC 0.8 8/25/2017-16	3134G8L49	Moodys-Aaa	2/25/2016	1,000,000.00	1,000,000.00	0.800	1,000,120.00	0.800	5/25/2016	8/25/2017	1.93
FHLMC 1 7/25/2017	3134G3ZH6	Moodys-Aaa	6/24/2015	1,000,000.00	1,004,540.00	1.000	1,004,260.00	0.780		7/25/2017	1.94
FHLMC 1.27 3/29/2019	3134G8QB8	Moodys-Aaa	3/29/2016	1,000,000.00	1,000,000.00	1.270	1,001,470.00	1.270		3/29/2019	1.93
FHLMC Step 3/30/2020-17	3134G8ST7	Moodys-Aaa	3/30/2016	1,000,000.00	1,000,000.00	1.000	1,001,670.00	1.744	3/30/2017	3/30/2020	1.93

Description	CUSIP/Ticker	Credit Rating 1	Settlement Date	Face Amount/Shares	Cost Value	Coupon Rate	Market Value	YTM @ Cost	Next Call Date	Maturity Date	% of Portfolio
FNMA 0.625 8/26/2016	3135G0YE7	Moodys-Aaa	12/16/2015	1,000,000.00	999,540.00	0.625	1,000,650.00	0.691		8/26/2016	1.93
FNMA 1.25 1/30/2017	3135G0GY3	Moodys-Aaa	12/16/2015	1,000,000.00	1,004,790.00	1.250	1,004,690.00	0.820		1/30/2017	1.94
Sub Total / Average				**17,000,000.00**	**17,010,400.00**	**0.938**	**17,025,960.00**	**1.181**			**32.86**
CAMP											
CAMP LGIP	LGIP4000	None	5/31/2011	9,812.84	9,812.84	0.500	9,812.84	0.500	N/A	N/A	0.02
Sub Total / Average				**9,812.84**	**9,812.84**	**0.500**	**9,812.84**	**0.500**			**0.02**
Certificates of Deposit											
1st Source Bank 0.6 9/15/2016	33646CGK4	None	12/18/2015	245,000.00	244,816.25	0.600	244,778.54	0.701		9/15/2016	0.47
Ally Bank 1 10/24/2016	02006LKM4	None	10/23/2014	240,000.00	240,000.00	1.000	240,182.11	1.000		10/24/2016	0.46
American Express Bank 1.1 10/24/2016	02587CBZ2	None	10/23/2014	240,000.00	240,000.00	1.100	240,319.44	1.100		10/24/2016	0.46
American Express Centurian 1.05 6/5/2017	02587DYJ1	None	6/5/2015	240,000.00	240,000.00	1.050	239,699.43	1.050		6/5/2017	0.46
Bank Hapoalim 0.85 2/17/2017	06251AL65	None	2/18/2016	248,000.00	248,000.00	0.850	247,537.01	0.850		2/17/2017	0.48
Bank of Baroda Ny 0.65 10/27/2016	06062QCS1	None	10/27/2015	245,000.00	245,000.00	0.650	244,687.96	0.650		10/27/2016	0.47
Bank of India NY 0.65 10/26/2016	06279HBX0	None	10/30/2015	245,000.00	245,000.00	0.650	244,689.50	0.650		10/26/2016	0.47
BankUnited NA 0.9 5/24/2017	066519BE8	None	11/24/2015	240,000.00	240,000.00	0.900	239,210.14	0.900		5/24/2017	0.46
Bar Harbor Bank 0.7 1/30/2017	066851TT3	None	6/30/2015	240,000.00	240,000.00	0.700	239,431.23	0.700		1/30/2017	0.46
Capital One Bank 1 10/24/2016	140420QG8	None	10/22/2014	240,000.00	240,000.00	1.000	240,182.11	1.000		10/24/2016	0.46

Description	CUSIP/Ticker	Credit Rating 1	Settlement Date	Face Amount/Shares	Cost Value	Coupon Rate	Market Value	YTM @ Cost	Next Call Date	Maturity Date	% of Portfolio
Capital One National Asso Bank 1.25 8/28/2017	14042E6B1	None	8/26/2015	245,000.00	245,000.00	1.250	245,532.91	1.250		8/28/2017	0.47
Compass Bank 0.95 6/5/2017	20451PLE4	None	6/5/2015	240,000.00	240,000.00	0.950	239,414.98	0.950		6/5/2017	0.46
Discover Bank 0.75 1/3/2017	254672QZ4	None	7/1/2015	240,000.00	240,000.00	0.750	239,573.26	0.750		1/3/2017	0.46
First Niagara Bank 1.1 10/30/2017	33583CSV2	None	10/30/2015	245,000.00	245,000.00	1.100	245,244.16	1.100		10/30/2017	0.47
Goldman Sachs Bank 1 10/16/2017	38148JQX2	None	4/27/2015	240,000.00	239,520.00	1.000	239,861.84	1.069		10/16/2017	0.46
Great Midwest Bank 0.75 7/27/2016	39083PCK6	None	10/27/2014	240,000.00	240,000.00	0.750	240,114.70	0.750		7/27/2016	0.46
Marlin Business Bank 0.85 8/24/2017	57116ALG1	None	2/24/2016	248,000.00	248,000.00	0.850	247,142.02	0.850		8/24/2017	0.48
Medallion Bank 1.15 10/30/2017	58403B2L9	None	10/28/2015	245,000.00	245,000.00	1.150	245,440.62	1.150		10/30/2017	0.47
Merrick Bank 0.9 5/19/2017	59013JLK3	None	11/19/2015	240,000.00	240,000.00	0.900	239,219.07	0.900		5/19/2017	0.46
Patriot Bank 0.65 6/30/2016	70337MAH1	None	12/30/2015	240,000.00	240,000.00	0.650	240,084.92	0.650		6/30/2016	0.46
Safra National Bank 0.7 11/29/2016	78658QSF1	None	11/30/2015	245,000.00	245,000.00	0.700	244,659.51	0.700		11/29/2016	0.47
Santander Bank 0.8 2/17/2017	80280JLS8	None	2/17/2016	248,000.00	248,000.00	0.800	247,426.89	0.800		2/17/2017	0.48
TCF National Bank 0.85 8/17/2017	872278SH0	None	2/17/2016	248,000.00	248,000.00	0.850	247,153.52	0.850		8/17/2017	0.48
Wex Bank 0.85 5/19/2017	92937CDE5	None	11/20/2015	245,000.00	245,000.00	0.850	244,063.86	0.850		5/19/2017	0.47
Sub Total / Average				**5,832,000.00**	**5,831,336.25**	**0.877**	**5,825,649.73**	**0.884**			**11.26**

Description	CUSIP/Ticker	Credit Rating 1	Settlement Date	Face Amount/Shares	Cost Value	Coupon Rate	Market Value	YTM @ Cost	Next Call Date	Maturity Date	% of Portfolio
Corporate Issues											
Caterpillar Financial 1 3/3/2017	14912L5Z0	Moodys-A2	12/23/2014	1,313,000.00	1,307,603.57	1.000	1,314,706.90	1.190		3/3/2017	2.53
Chevron Corp 2.193 11/15/2019	166764AN0	Moodys-Aa1	2/26/2016	1,160,000.00	1,167,806.57	2.193	1,182,074.80	2.004		11/15/2019	2.26
General Electric Capital Corp 5.4 2/15/2017	36962G2G8	Moodys-A1	3/2/2015	1,085,000.00	1,179,514.35	5.400	1,128,052.80	0.890		2/15/2017	2.28
HSBC Holdings 3.4 3/8/2021	404280AV1	Moodys-A1	3/28/2016	2,000,000.00	2,055,027.54	3.400	2,040,980.00	2.800		3/8/2021	3.97
IBM Corp 1.8 5/17/2019	459200JE2	Moodys-Aa3	3/18/2016	1,000,000.00	1,005,370.00	1.800	1,012,530.00	1.624		5/17/2019	1.94
Internaltional Business Machs 0.45 5/6/2016	459200HL8	Moodys-Aa3	11/26/2013	1,000,000.00	996,840.00	0.450	1,000,050.00	0.580		5/6/2016	1.93
JP Morgan Chase & Co 2 8/15/2017	48126EAA5	Moodys-A3	2/16/2016	1,000,000.00	1,008,859.00	2.000	1,009,860.00	1.400		8/15/2017	1.95
JP Morgan Securities 0 5/13/2016	46640PED1	Moodys-P1	8/19/2015	1,000,000.00	995,235.56	0.000	999,323.94	0.653		5/13/2016	1.92
Royal Bank of Canada 1.2 1/23/2017	78010UNX1	Moodys-Aa3	10/2/2015	1,000,000.00	1,003,960.00	1.200	1,002,000.00	0.895		1/23/2017	1.94
Royal Bank of Canada 2.3 7/20/2016	78008TLB8	Moodys-Aa3	12/23/2014	1,190,000.00	1,217,310.50	2.300	1,195,926.20	0.830		7/20/2016	2.35
Toyota Motor Credit 1.55 7/13/2018	89236TCP8	Moodys-Aa3	3/16/2016	1,000,000.00	1,002,490.00	1.550	1,008,910.00	1.440		7/13/2018	1.94
US Bankcorp 2.2 11/15/2016	91159HHB9	Moodys-A1	3/31/2015	900,000.00	920,304.00	2.200	907,614.00	0.797		11/15/2016	1.78
Sub Total / Average				**13,648,000.00**	**13,860,321.09**	**2.098**	**13,802,028.64**	**1.375**			**26.78**

LAIF

Description	CUSIP/Ticker	Credit Rating 1	Settlement Date	Face Amount/Shares	Cost Value	Coupon Rate	Market Value	YTM @ Cost	Next Call Date	Maturity Date	% of Portfolio
LAIF LGIP	LGIP1002	None	4/30/2011	10,058,402.40	10,058,402.40	0.370	10,058,402.40	0.370	N/A	N/A	19.43
Sub Total / Average				**10,058,402.40**	**10,058,402.40**	**0.370**	**10,058,402.40**	**0.370**			**19.43**
Treasury											
T-Bond 0.25 5/16/2016	912828VC1	Moodys-Aaa	1/24/2014	1,000,000.00	994,530.00	0.250	999,950.00	0.488		5/16/2016	1.92
T-Bond 0.5 3/31/2017	912828J92	Moodys-Aaa	3/9/2016	1,000,000.00	998,417.43	0.500	998,830.00	0.650		3/31/2017	1.93
T-Note 0.5 6/15/2016	912828VG2	Moodys-Aaa	3/27/2014	1,000,000.00	999,530.00	0.500	1,000,450.00	0.521		6/15/2016	1.93
T-Note 0.875 1/15/2018	912828H37	Moodys-Aaa	6/1/2015	1,000,000.00	1,001,560.00	0.875	1,002,540.00	0.815		1/15/2018	1.93
T-Note 0.875 11/15/2017	912828G20	Moodys-Aaa	6/24/2015	1,000,000.00	1,001,060.00	0.875	1,002,500.00	0.830		11/15/2017	1.93
Sub Total / Average				**5,000,000.00**	**4,995,097.43**	**0.601**	**5,004,270.00**	**0.661**			**9.65**
Total / Average				**51,548,215.24**	**51,765,370.01**	**1.099**	**51,726,123.61**	**0.992**			**100**

All investment actions executed since the last report have been made in full compliance with the District's Investment Policy.
The District will meet its expenditure obligations for the next six months.
Market value sources are the LAIF, CAMP, and BNY Mellon monthly statements.
Broker/Dealers: BOSC, Inc.; Cantella & Co.; First Empire Securities; Ladenburg, Thalman & Co, Inc.; UBS Financial Services; Wells Fargo Securities.

Union Sanitary District
Board Report - Activity
Portfolio/Report Group: All Portfolios
From 3/1/2016 To 3/31/2016

Description	CUSIP/Ticker	Face Amount/Shares	Principal	Interest/Dividends	Coupon Rate	YTM @ Cost	Settlement Date	Total
BUY								
FFCB 0.9 9/21/2017	3133EFN78	1,000,000.00	1,000,000.00	0.00	0.900	0.900	3/21/2016	1,000,000.00
FFCB 1.59 3/23/2020-17	3133EFR25	1,000,000.00	1,000,000.00	0.00	1.590	1.590	3/23/2016	1,000,000.00
FHLB 1 3/29/2018-17	3130A7MB8	1,000,000.00	1,000,000.00	0.00	1.000	1.000	3/29/2016	1,000,000.00
FHLB Step 3/15/2021-16	3130A7EG6	1,000,000.00	1,000,000.00	0.00	1.000	2.216	3/15/2016	1,000,000.00
FHLMC 1.27 3/29/2019	3134G8QB8	1,000,000.00	1,000,000.00	0.00	1.270	1.270	3/29/2016	1,000,000.00
FHLMC Step 3/30/2020-17	3134G8ST7	1,000,000.00	1,000,000.00	0.00	1.000	1.744	3/30/2016	1,000,000.00
HSBC Holdings 3.4 3/8/2021	404280AV1	2,000,000.00	2,055,027.54	3,777.78	3.400	2.800	3/28/2016	2,058,805.32
IBM Corp 1.8 5/17/2019	459200JE2	1,000,000.00	1,005,370.00	1,450.00	1.800	1.624	3/18/2016	1,006,820.00
T-Bond 0.5 3/31/2017	912828J92	1,000,000.00	998,417.43	2,199.45	0.500	0.650	3/9/2016	1,000,616.88
Toyota Motor Credit 1.55 7/13/2018	89236TCP8	1,000,000.00	1,002,490.00	2,712.50	1.550	1.440	3/16/2016	1,005,202.50
Sub Total / Average		**11,000,000.00**	**11,061,304.97**	**10,139.73**				**11,071,444.70**
CALLED								
FHLB 0.8 3/17/2017-16	3130A4GT3	1,000,000.00	1,000,000.00	0.00	0.800	0.000	3/17/2016	1,000,000.00
FHLB 0.85 6/16/2017-16	3130A4GU0	1,000,000.00	1,000,000.00	0.00	0.850	0.000	3/16/2016	1,000,000.00
FNMA 2.1 3/18/2020-16	3136G2LV7	2,000,000.00	2,000,000.00	0.00	2.100	0.000	3/18/2016	2,000,000.00
Sub Total / Average		**4,000,000.00**	**4,000,000.00**	**0.00**				**4,000,000.00**
DEPOSIT								
CAMP LGIP	LGIP4000	4.13	4.13	0.00		0.000	3/31/2016	4.13
Sub Total / Average		**4.13**	**4.13**	**0.00**				**4.13**
INTEREST								
Bar Harbor Bank 0.7 1/30/2017	066851TT3	0.00	0.00	138.08	0.700	0.000	3/29/2016	138.08

Description	CUSIP/Ticker	Face Amount/Shares	Principal	Interest/Dividends	Coupon Rate	YTM @ Cost	Settlement Date	Total
BMW Bank North America 0.5 3/14/2016	05568P6V4	0.00	0.00	598.36	0.500	0.000	3/14/2016	598.36
CAMP LGIP	LGIP4000	0.00	0.00	4.13		0.000	3/31/2016	4.13
Caterpillar Financial 1 3/3/2017	14912L5Z0	0.00	0.00	6,565.00	1.000	0.000	3/3/2016	6,565.00
FHLB 0.8 3/17/2017-16	3130A4GT3	0.00	0.00	4,000.00	0.800	0.000	3/17/2016	4,000.00
FHLB 0.85 6/16/2017-16	3130A4GU0	0.00	0.00	4,250.00	0.850	0.000	3/16/2016	4,250.00
FHLB 0.9 9/28/2017	3130A5KH1	0.00	0.00	4,500.00	0.900	0.000	3/28/2016	4,500.00
FNMA 0.5 3/30/2016	3135GOVA8	0.00	0.00	2,500.00	0.500	0.000	3/30/2016	2,500.00
FNMA 2.1 3/18/2020-16	3136G2LV7	0.00	0.00	21,000.00	2.100	0.000	3/18/2016	21,000.00
Great Midwest Bank 0.75 7/27/2016	39083PCK6	0.00	0.00	143.01	0.750	0.000	3/27/2016	143.01
Medallion Bank 1.15 10/30/2017	58403B2L9	0.00	0.00	223.86	1.150	0.000	3/31/2016	223.86
Merrick Bank 0.9 5/19/2017	59013JLK3	0.00	0.00	171.62	0.900	0.000	3/19/2016	171.62
T-Bond 0.5 3/31/2017	912828J92	0.00	0.00	2,500.00	0.500	0.000	3/31/2016	2,500.00
Sub Total / Average		**0.00**	**0.00**	**46,594.06**				**46,594.06**
MATURED								
BMW Bank North America 0.5 3/14/2016	05568P6V4	240,000.00	240,000.00	0.00	0.500	0.000	3/14/2016	240,000.00
FNMA 0.5 3/30/2016	3135GOVA8	1,000,000.00	1,000,000.00	0.00	0.500	0.000	3/30/2016	1,000,000.00
Natixis NY 0 3/18/2016	63873JCJ7	1,000,000.00	1,000,000.00	0.00	0.000	0.000	3/18/2016	1,000,000.00
Sub Total / Average		**2,240,000.00**	**2,240,000.00**	**0.00**				**2,240,000.00**
WITHDRAW								
LAIF LGIP	LGIP1002	1,000,000.00	1,000,000.00	0.00		0.000	3/9/2016	1,000,000.00
LAIF LGIP	LGIP1002	4,000,000.00	4,000,000.00	0.00		0.000	3/25/2016	4,000,000.00
LAIF LGIP	LGIP1002	2,000,000.00	2,000,000.00	0.00		0.000	3/29/2016	2,000,000.00
Sub Total / Average		**7,000,000.00**	**7,000,000.00**	**0.00**				**7,000,000.00**

Union Sanitary District's Internal Retiree Medical Fund
Quarterly Report

For Period Ended 3/31/16

Fund Balance 12/31/15:		**$275,879.78**
Revenues:		
		0.00
Expenses:		
	Quarterly Net Medical Reimbursments	(3,077.60)
Transfers Out:		
2/26/16	CalPERS OPEB Trust Annual Required Contrib. (ARC) (payment #3 of 4)	(140,301.25)
Ending Fund Balance 3/31/16:		**$132,500.93**

Union Sanitary District
CERBT Strategy 2
Entity #: SKB7-6011550262
Quarter Ended March 31, 2016

CalPERS

Market Value Summary:

	QTD Current Period	Fiscal Year to Date
Beginning Balance	$4,388,219.14	$4,311,934.25
Contribution	140,301.25	420,903.75
Distribution	(88,986.71)	(235,219.78)
Transfer In	0.00	0.00
Transfer Out	0.00	0.00
Investment Earnings	136,454.54	12,715.37
Admin Expense	(527.27)	(1,599.59)
Investment Expense	(385.47)	(1,169.49)
Other	0.00	0.00
Ending Balance	$4,575,075.48	$4,507,564.51
YTD Accrual	0.00	67,510.97
Grand Total	$4,575,075.48	$4,575,075.48

Unit Value Summary:

	QTD Current Period	Fiscal Year to Date
Beginning Units	329,186.710	318,863.990
Unit Purchases from Contributions	10,713.780	31,749.425
Unit Sales for Withdrawals	(6,832.911)	(17,545.836)
Unit Transfer In	0.000	0.000
Unit Transfer Out	0.000	0.000
Ending Units	333,067.579	333,067.579
Period Beginning Unit Value	13.330487	13.734525
Period Ending Unit Value	13.736178	13.736178

Please note that the Grand Total is your actual fund account balance at the end of the period, including all accrued Contributions and Distributions. Please review your statement promptly. All information contained in your statement will be considered true and accurate unless you contact us within 30 days of receipt of this statement. If you have questions about the validity of this information, please contact CERBT4U@calpers.ca.gov.

Statement of Transaction Detail for the Quarter Ending 03/31/2016

Union Sanitary District

Entity #: SKB7-6011550262

Date	Description	Amount	Unit Value	Units	Check/Wire	Notes
02/04/2016	Distribution	($88,986.71)	$13.023250	(6,832.911)		
02/26/2016	Contribution	$140,301.25	$13.095402	10,713.780	WIRE 2016022600105089	

Client Contact:
CERBT4U@CalPERS.ca.gov

MONTHLY OPERATIONS REPORT FOR THE MONTH OF MARCH 2016
TECHNICAL SUPPORT WORK GROUP SUMMARY

Capital Improvement Program

Thickener Control Building Improvements Project – Installation of conduits, formwork, reinforcement and concrete placement for the new structure's bottom slab has been completed.

Fremont and Paseo Padre Lift Stations Improvements Project – Contractor is awaiting the fabrication of the lift pumps and electrical equipment before resuming work.

MCC and PLC Replacement Project, Phase 3 – Contractor completed approximately 90% of the electrical conduit installation at the Main Electrical Distribution Building and Aeration Basin 5-7 Blower Room. Contractor is planning the replacement of MCC 16 and electrical panels inside the Degritter Building beginning in April.

Plant Facilities Improvements Project - Contractor completed the trench excavation from the GBT Building to Aeration Basins 5-7, and installed PVC piping in the GBT Building and on the roof deck of Aeration Basins 5-7 for the new polymer solution pipe. Contractor also completed piping installation for the new groundwater dewatering pumps located at the Primary Clarifiers 1-4 Building.

Aeration Blower Project – Concrete repair work and installation of new electrical gear section has been completed. Blower factory testing is scheduled for April.

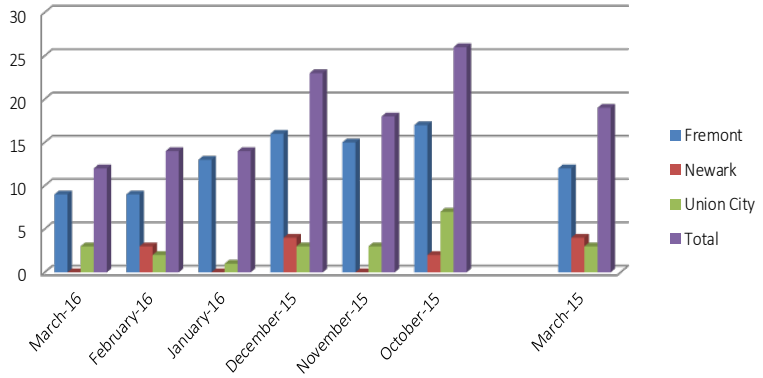
Aeration Basins 5-7 Diffuser Membranes Replacement Project - The construction contract was awarded to GSE Construction Company, Inc. at the March 28th Board meeting. The Notice to Proceed will be issued in late April.

Alvarado-Niles Road Sanitary Sewer Rehabilitation Project – The construction contract was awarded to SAK Construction at the March 14th Board meeting. The Notice to Proceed has been issued for April 4th.

Customer Service

Trouble Calls dispatched from the Front Desk during business hours:

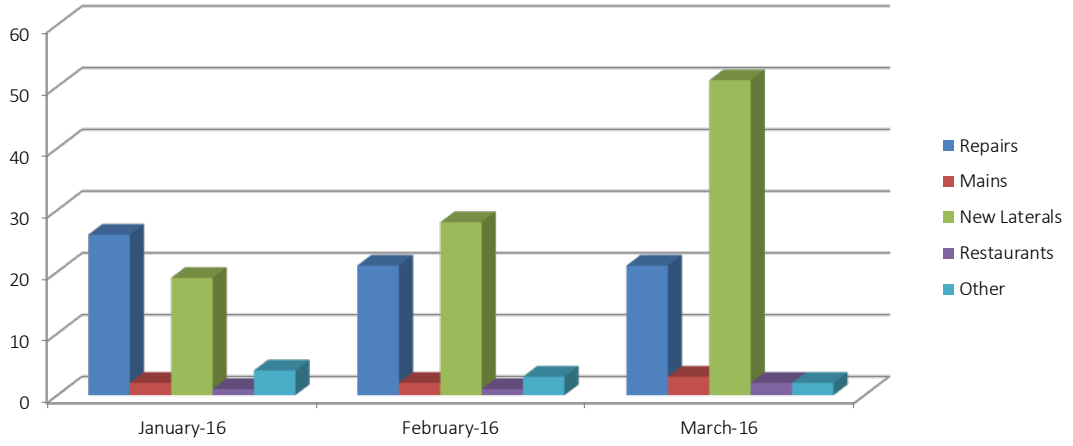
Month	Fremont	Newark	Union City	Total
March-16	9	0	3	**12**
February-16	9	3	2	**14**
January-16	13	0	1	**14**
December-15	16	4	3	**23**
November-15	15	0	3	**18**
October-15	17	2	7	**26**
March-15	*12*	*4*	*3*	*19*
			6-Month Total	**107**



Sewer Permits Issued

Month	Repairs	Mains	New Laterals	Restaurants	Other
March-16	21	3	51	2	2
February-16	21	2	28	1	3
January-16	26	2	19	1	4

New Laterals - New residential lateral connections
Other - Non-residential construction (except restaurants)



Communication & Graphics

- Developed and issued press release re: Repairs to Alvarado Blvd. nearly complete; updated social media and shared with City of Union City Staff
- Participated in "Read Across America", reading to elementary school class at Delaine Eastin school in Union City
- Participated in Ad Hoc Committee meeting regarding Social Media strategy/communication strategies
- Attended CSDA webinar on Public Outreach
- Attended webinar: Developing an Extraordinary Public Outreach Campaign
- Updated website and social media re: Alvarado Niles Road project and public meeting; attended public meeting; shared info with City of Union City staff
- Attended Fremont State of the City luncheon
- Developed Invitation to Bid for printing and mailing USD Newsletter
- Proposed content topics for 2016 newsletter; developed staff report for Board consideration
- Researched legislative update materials, attended CASA State Legislation conference call
- Continued website redesign project work – meetings with teams to discuss content migration, conference call meeting with web designer
- Participated as past president of Union City Chamber Board – attended mixer for Fremont, Newark and Union City Chamber
- Participated in Capacity Fee work group regarding Public Outreach

Environmental Compliance

Pollution Prevention Program

USD's Environmental Compliance team conducts pollution prevention inspections to restaurants, car wash businesses, and other commercial facilities. EC also conducts inspections and enforcement for the City of Fremont's Environmental Services group. We conduct over 600 Stormwater compliance inspections every year to

ensure that commercial facilities, including restaurants and auto shops, comply with City Ordinance requirements, and do not discharge pollutants to the creeks and bay.

For the past month, the EC team conducted 89 Stormwater (Urban Runoff), and 85 FOG (restaurant) inspections. During this reporting period, Inspectors identified 28 Stormwater and 29 FOG enforcement actions. Nine (9) of the Stormwater enforcements resulted in administrative fines ranging from $100 to $500. Three (3) of the administrative fines were for illicit discharges and six (6) were for repeated violations.

Urban Runoff Inspections and Enforcements

	No. of UR Inspections	VW	WL	NOV	AF	LA	Total Enforcements		No. of Illicit Discharge/s	3
March 2016	89	7	0	12	9	0	28		% enforcement	32%

FOG Inspections and Enforcements

	No. of FOG Inspections	VW	WL	NOV	AF	NOD	Total Enforcements		% enforcement	34%
March 2016	85	12	15	2	0	0	29			

Enforcements:

VW –Verbal Warning *WL – Warning Letter* *NOV – Notices of Violation*
AF – Administrative Fine *LA – Legal Action* *NOD – Notice of Deficiency*
AO – Administrative Order *C&D – Cease & Desist Order* *SNC – Significant Non Compliance*

Dental Inspections, School Outreach, and Plant Tours

# of Dental Inspections	# of School Outreach Events including Sewer Science	# of Plant Tours
6	9	0

Industrial Pretreatment

The Industrial Pretreatment program has a number of pending permits as shown in the table below. USD inspectors are working with each of these companies to establish permitted industrial discharges.
One permit was issued to Gooch and Housego. This facility manufactures optical communications equipment. It will be a Class II permit.

Pending Permits

New Industrial/Groundwater Permits	Groundwater/Temporary
Chemetal - Zero Discharge Permit	Pacific States Environmental Contractors, Inc. Groundwater
Enovix- Zero Discharge Permit	Jones Hamilton- Groundwater Permit
	William Lyons- Groundwater Permit

Permits Issued

Company Name	Date Permit Issued
None	

Industrial Closures

Company Name	Date of Closure
None	

Reports (Annual & Semi-Annual Pretreatment Report, Union City Report, etc.)

Report Name	Date Report Completed and Submitted
None	

Enforcement Action

IU Name & Nature of Business	Comments	City	Parameters Violated	Discharge concentration (mg/L)	USD/Fed Limit Violated (mg/L)	Enforcement *(1)*
Clean Sciences, Inc. –High tech parts cleaning	Permit Condition G2.13 Local Discharge violation	Fremont	Fluoride	260 mg/L	180 mg/L	NOV N16-004
Sogo Bakery	Permit condition G2.6a Local Discharge violations	Newark	Oil and Grease (O&G)	350 mg/L	300 mg/L	NOV N16-003

(1) WL – Warning Letter *NOV – Notices of Violation* *AO – Administrative Order*
C&D – Cease and Desist Order *SNC – Significant Non Compliance* *EM – Enforcement Meeting*

Other - Training, Special Meetings, Conferences, Special Recognition, IAC (topics)

Activity	Date of Event	Attendees
CWEA P3S Conference	2/29-3/2/16	Marian Gonzalez
Industrial Illicit Discharge Committee (IIDC)	3/17/16	Jose Soto
MEDS Coalition	3/21/16	Doug Dattawalker
CWEA Environmental Compliance Inspector Test auditing	3/21/16	Doug Dattawalker
Industrial Advisory Council Meeting	3/22/16	Boehringer-Ingelheim, Clean Sciences, Inc., Safety Kleen, and Western Digital.

Engineering/Construction

No. of projects under construction: 7

	Construction Projects	Capital ($1000)	Scheduled Completion	Completed Scope	Completed Time	Comments for Mar. 2016 Activities
1.	Thickener Control Building Improvements Project – Curtis	$9,990	12/16	69%	72%	Concrete placement for bottom slab has been completed.

	Construction Projects	Capital ($1000)	Scheduled Completion	Completed Scope	Completed Time	Comments for Mar. 2016 Activities
2.	Fremont and Paseo Padre LSs Improvement - Derek	$2,801	10/16	4%	47%	The contractor is awaiting delivery of lift pumps and electrical equipment before resuming work.
3.	MCC and PLC Replacement Project, Phase 3 – Thomas	$869	12/16	8%	25%	Contractor completed approximately 90% of the electrical conduit installation at the Main Electrical Distribution Building and Aeration Basins 5-7 Blower Room.
4.	Plant Facilities Improvements Project – Thomas	$1,570	1/17	10%	16%	Contractor completed the groundwater pump discharge piping at the Primary Clarifiers 1-4 Building. Contractor also continued with the installation of the new polymer solution pipe.
5.	Aeration Blower Project – Curtis	$1,065	8/16	21%	46%	Installation of new electrical gear section has been completed.
6.	Aeration Basins 5-7 Diffuser Membranes Replacement Project – Kevin	$313	9/16	0%	0%	Contract awarded on March 28th.
7.	Alvarado-Niles Road SS Rehabilitation – Chris E.	$3,283	11/16	0%	0%	Contract awarded on March 14th. Notice To Proceed on April 4th.

<u>Design/Study</u>

No. of projects in design/study phase: <u>14</u>

	Design/Study Projects	Capital ($1000)	Scheduled Completion	Completed Scope	Completed Time	Comments for Mar. 2016 Activities
1.	Alvarado Basin Master Plan Wet Weather and Condition Assessment - Rollie	$90	6/16	40%	57%	Flow meters removed. Condition Assessment data gathered.
2.	Seismic Study - Raymond	$210	6/15	100%	100%	Conducted Board workshop on March 21st.
3.	Cast Iron Lining Phase VI – Andrew	In-House	10/15	99%	99%	Design is 99% complete. Construction is scheduled for FY18.

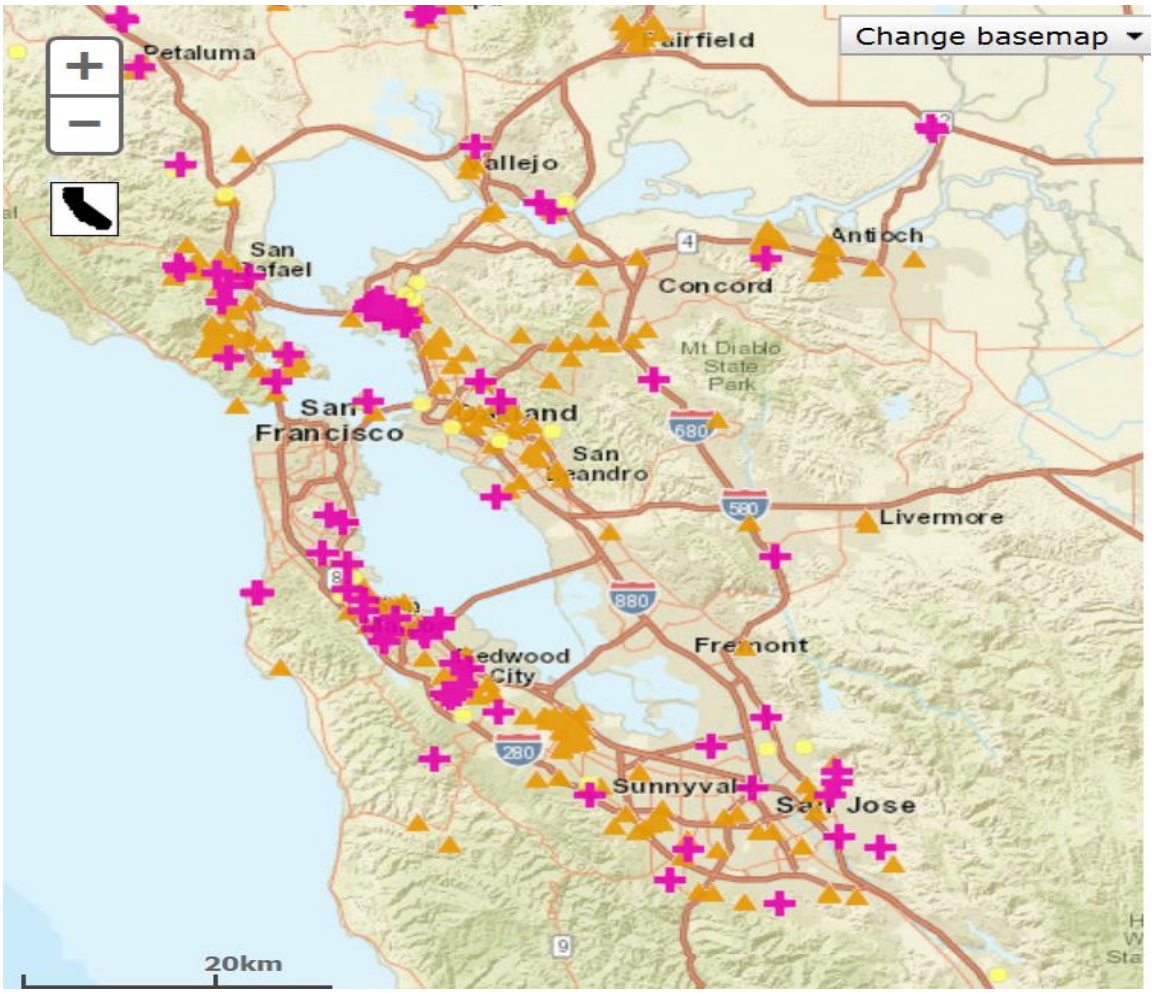
	Design/Study Projects	Capital ($1000)	Scheduled Completion	Completed Scope	Completed Time	Comments for Mar. 2016 Activities
4.	Pine St. Easement Improvements – Chris E.	$87	2/16	100%	100%	Bids opened March 15th; both bids non-responsive and to be rejected on April 11th.
5.	Plant Site Use Study – Curtis	$238	1/16	98%	100%	Study in progress. Revised life cycle cost technical memorandum under review.
6.	Plant Solids System / Capacity Assessment – Curtis	$238	6/16	28%	44%	Study in progress. Chapter 2 – Capacity Evaluation to be submitted in April.
7.	Generator Controls Upgrade Project – Raymond	$72	2/16	100%	100%	Study phase is complete. RFP for design services is in progress.
8.	Chemical Tanks and PVC Piping Replacement - Thomas	$160	12/15	100%	100%	Began negotiations with the consultant on additional project scope.
9.	Newark Backyard SS Relocation Phase 3 – Al/Rollie	$160	02/16	90%	100%	Opened bids on March 24th. Award of the construction contractor is scheduled for April 11th.
10.	Recycled Water Feasibility Study Update – Chris E.	$130	07/16	71%	71%	Study is in progress.
11.	FM Manways Corrosion – Chris E.	$14	06/16	50%	50%	Pre-design report is under review.
12.	FMC Building – Chris E.	$82	03/16	100%	100%	Final reports are complete and will be published in April.
13.	Sludge Degritter System Project – Kevin	$180	07/16	55%	55%	Completed 50% design review. Consultant will submit the 90% design on May 16th.
14.	Cogeneration Improvements Project - Derek	$300	02/16	100%	100%	Opened bids on March 15th. The sole bid will be rejected on April 11th.

COLLECTION SERVICES
ACTIVITIES REPORT
March 2016

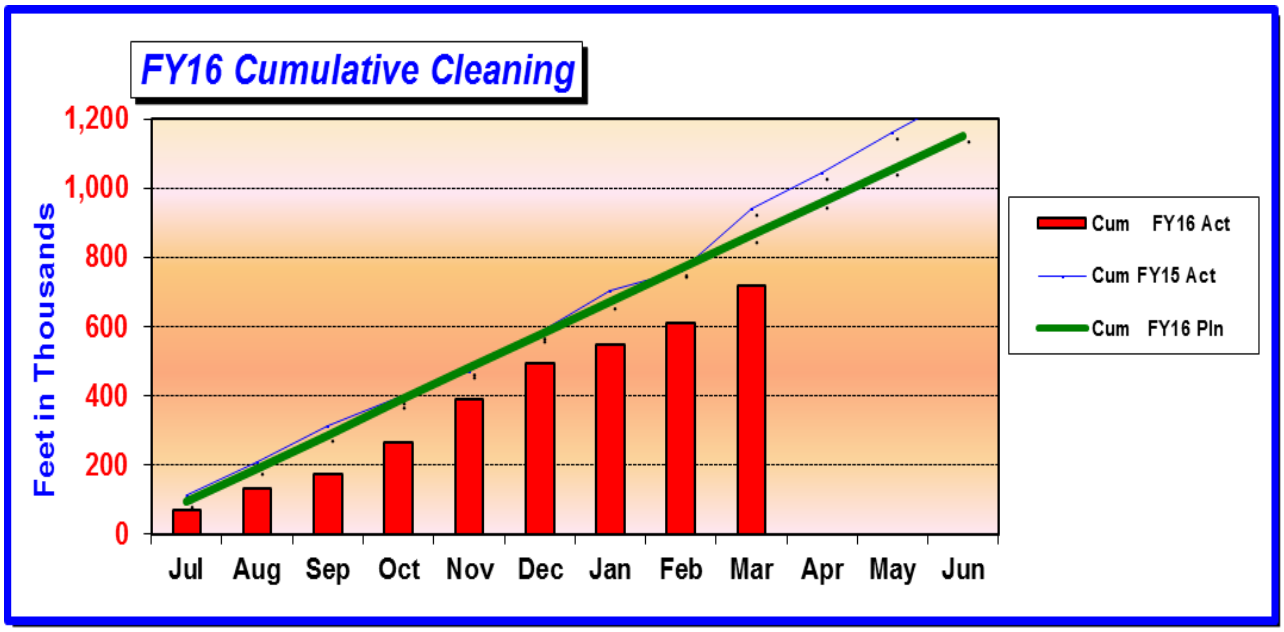
Progress/Accomplishments

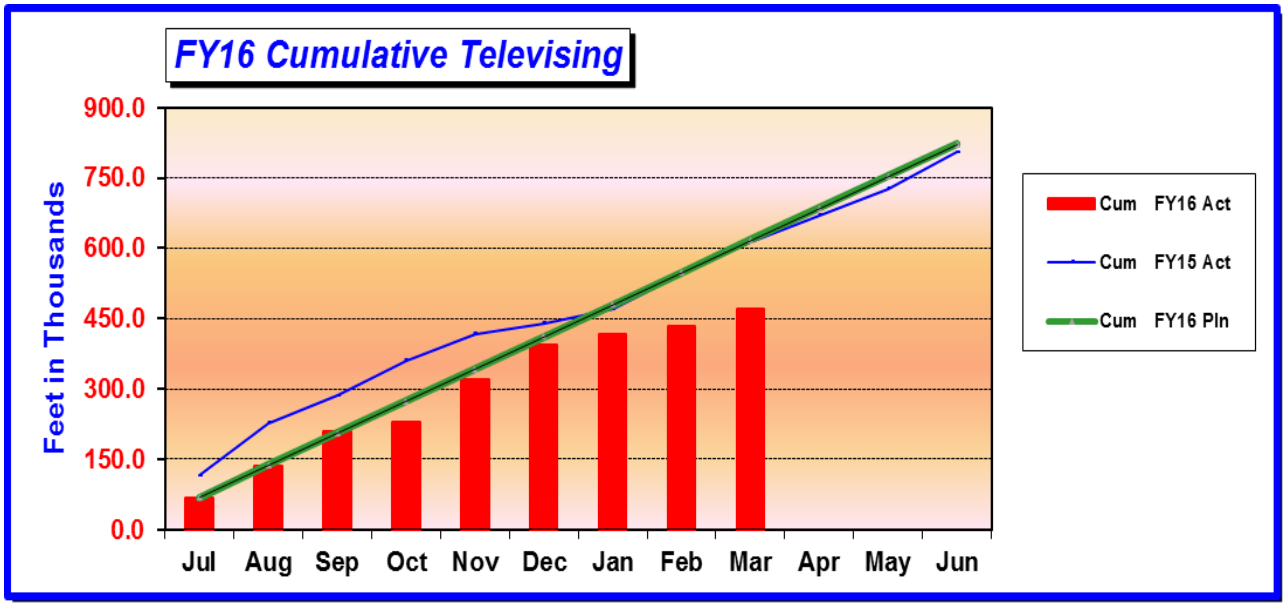
- Completed 20.6 miles of cleaning of sewer lines in March
- Completed 7.0 miles of televising of sewer lines in March
- Responded to 21 service request calls in March
- Completed a total of 43 main repairs in March
- Marked and located all sewer lines (Underground Service Alerts)
- Provided support on the following projects: Alvarado Sink Hole
- No spills for the month of March.

Bay Area Spills for Same Time Period



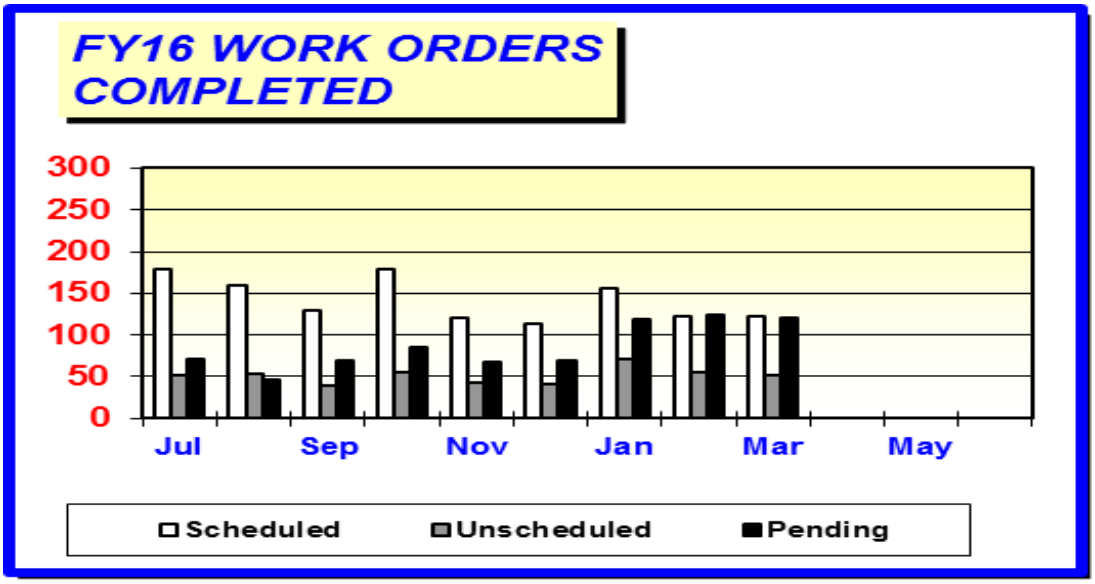
Performance Measures



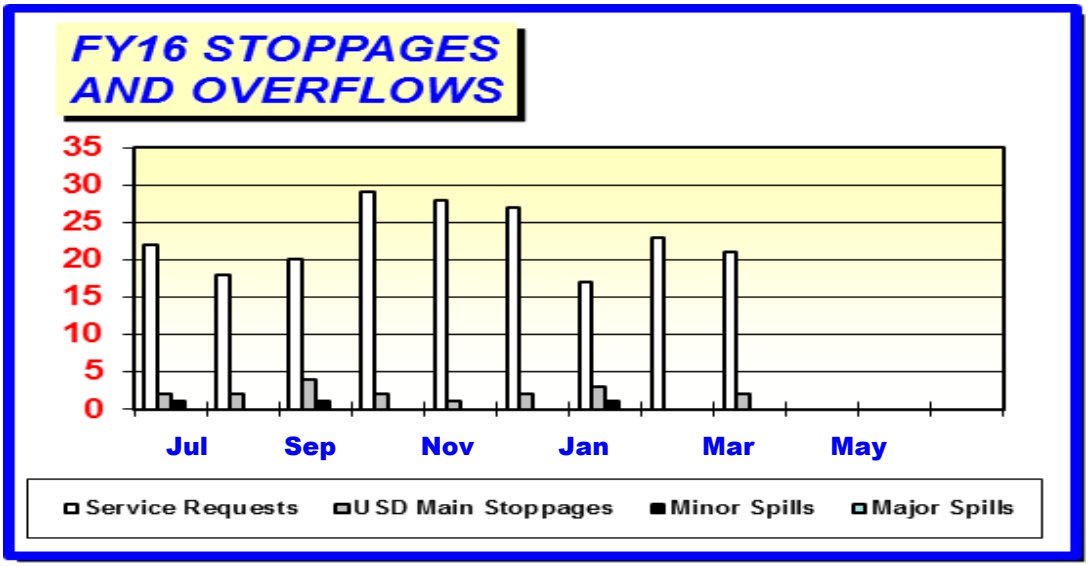


Other Collection Services Status Data:

Support Team Work Order Status:



C/S Maintenance Status:



FMC
Activities Report
March 2016

Progress/Accomplishments

- Completed 96% of preventive maintenance activities for the month of March
- Completed 81 corrective maintenance work orders for the month of March
- Completed the annual cathodic protection survey
- Completed wet well cleaning at Newark Pump Station
- Completed 10K service on Cogen No.2
- Replaced PLC 99
- Rebuilt Secondary Digester Chopper Pump No. 1

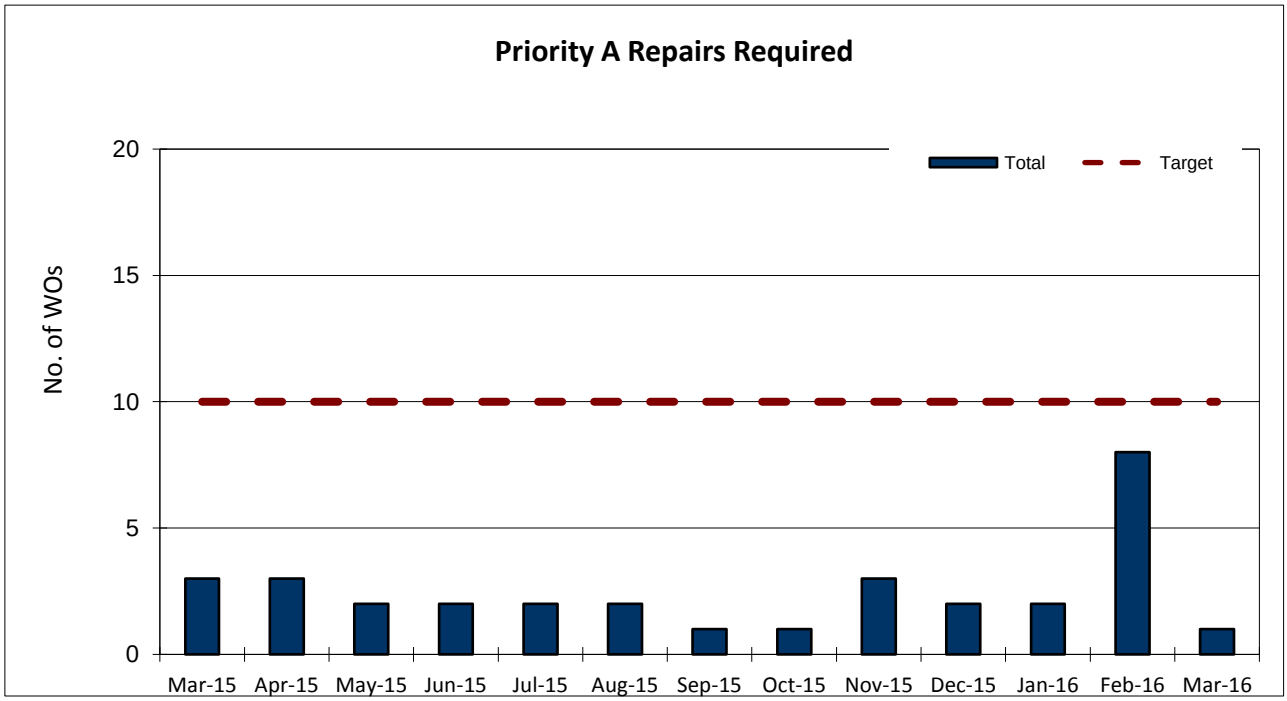
Future Planning

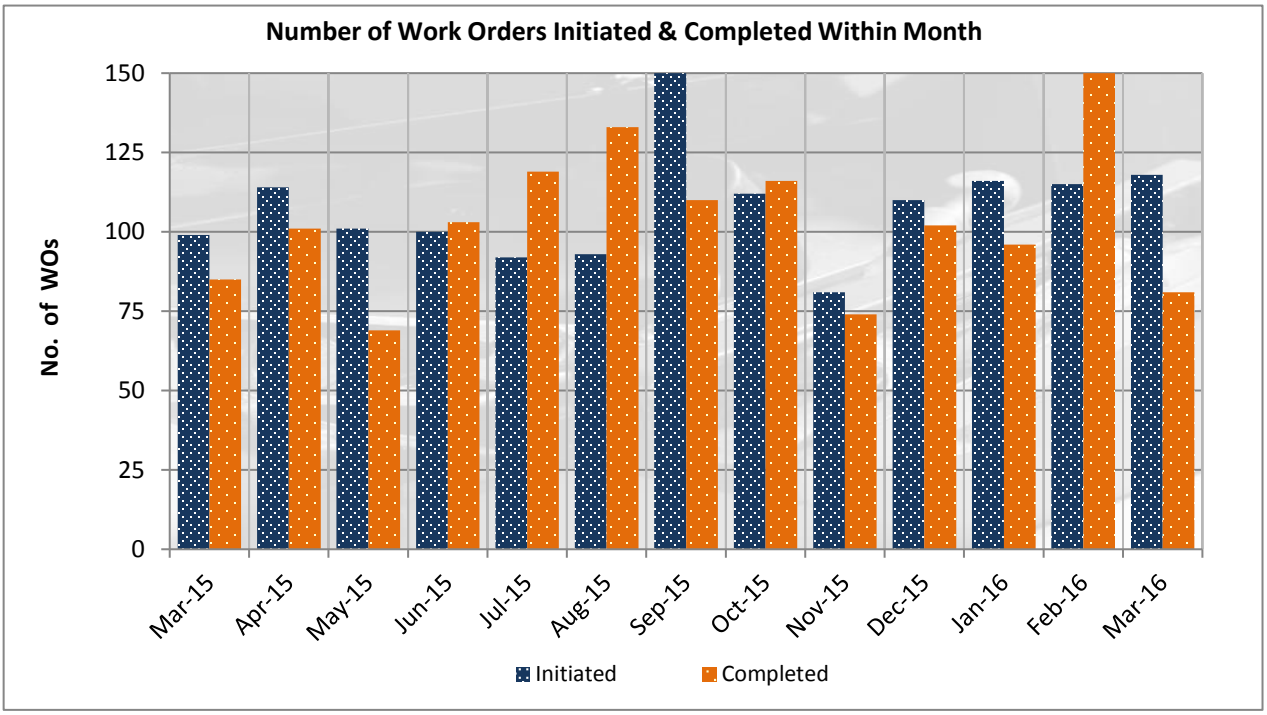
- Wet well cleaning at Irvington Pump Station
- Cogen No. 1 10K service
- Cogen No. 1 and No. 2 coolant leak repair
- Replacement of actuators on RAS Splitter Box
- Thickener No. 1 annual
- Plant shutdown for installation of new power meter, CB2 gate No. 3 seal replacement, and internalift station No. 2 inspection

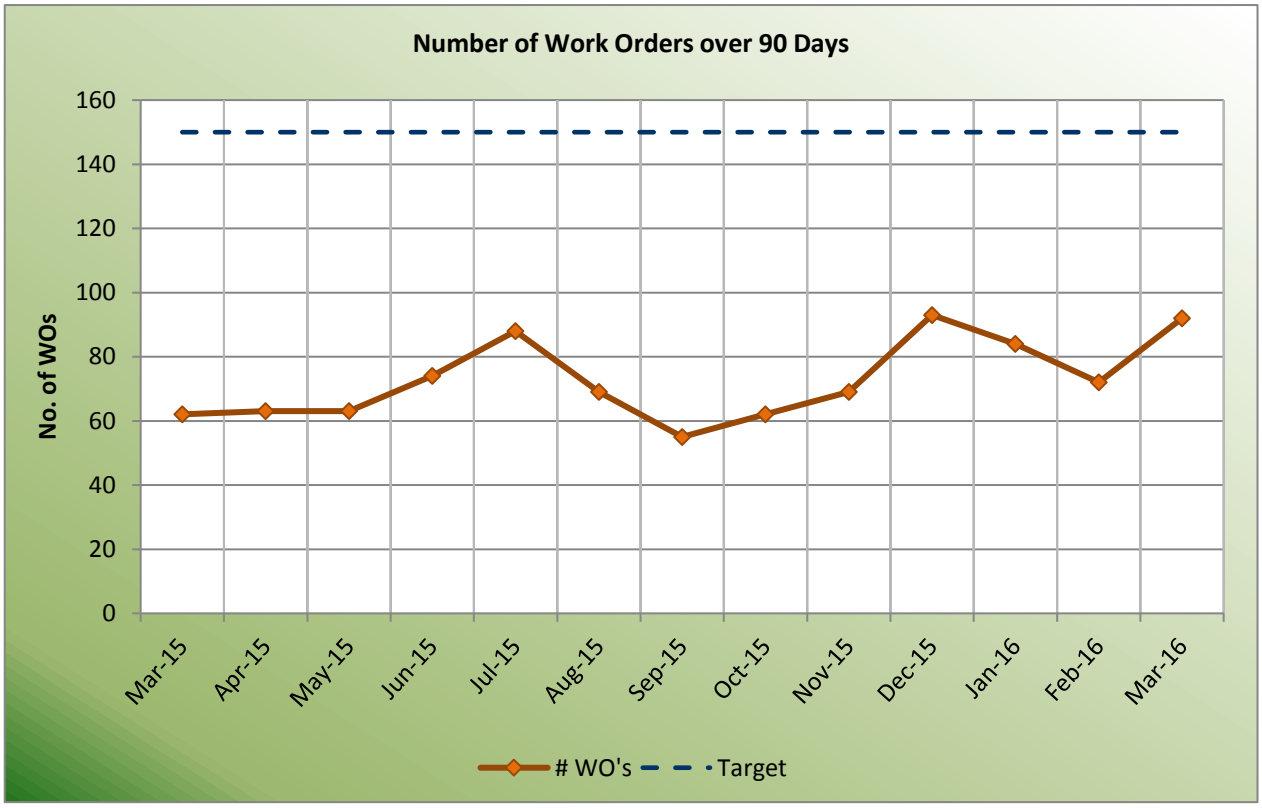
Other

- Completed Recruitment of Mechanical Position

Performance Measurements




Number of Work Orders Initiated & Completed Within Month
No. of WOs
150
125
100
75
50
25
0
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Initiated
Completed


Number of Work Orders over 90 Days
No. of WOs
160
140
120
100
80
60
40
20
0
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
WO's
Target

Treatment & Disposal
Activities Report
March 2016

Progress/Accomplishments

- Maintained 100% compliance with NPDES permits.
- Completed 91% preventive maintenance activities for the month of March.
- The organic codigestion pilot study continued successfully. Activated carbon was added to improve odor control.
- Continued working with RMC to complete the ROWD and mixing zone study for the Hayward Marsh. A draft submittal is expected in April.
- Met with EBRPD to discuss Mosquito abatatement concerns for the Hayward Marsh.
- Staff attended a presentation from Huber on low temperature belt dryers to staff. Information was received on producing Class A biosolids using thermal drying.
- Researched reclaimed water alternatives for the treatment plant and began estimating associated costs.
- Responded to a request for information from Southland Energy.
- Completed purchase of a replacement ICP (metals analyzer) for the laboratory. Delivery is expected by May 2016.

Future Planning

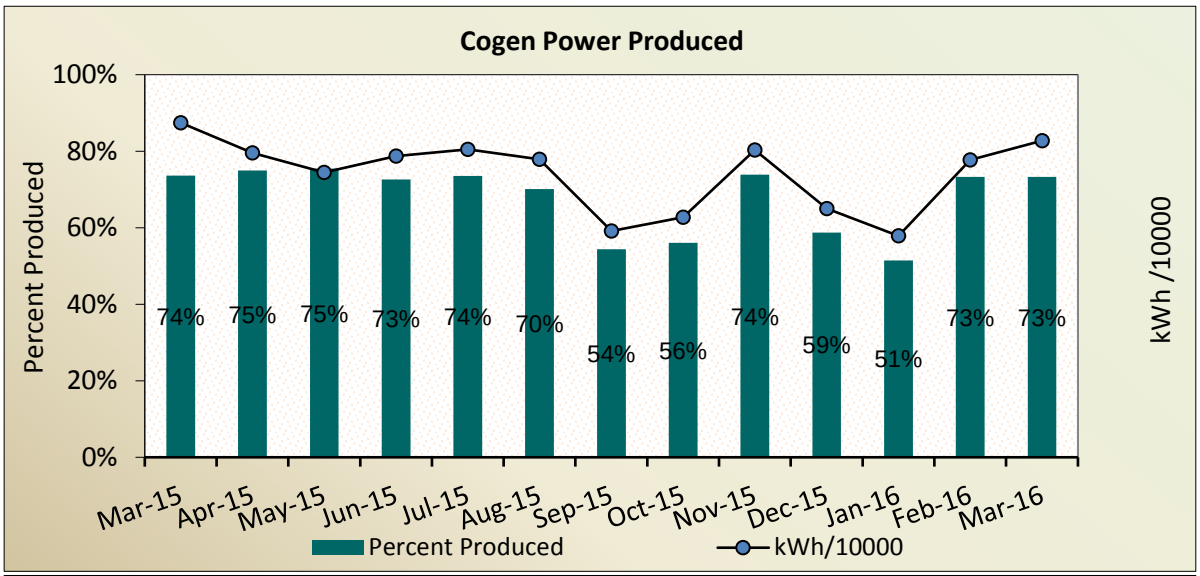
- Prepare costs for reclaied water alternatives and an information item to the Board.
- Review the Mixing Zone Study report and ROWD, and provide comments for submittal to the Regional Board in May 2016.
- Continue the organic codiestion study. Make changes to the system to allow for higher loading rates.
- Meet with BAAQMD to discuss the current permit condition for the Plant cogeneration system.

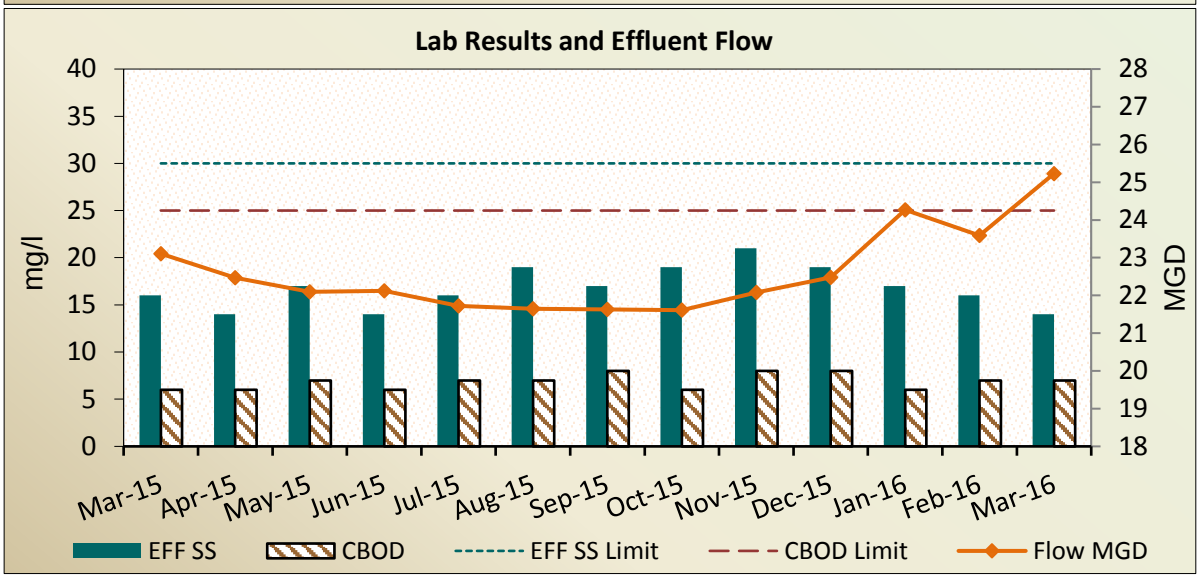
- Evaluate the current electrical and gas usage to determine whether there are more advantageous alternatives.
- Test aeration system membranes to determine the level of biological fouling.
- Continued to support CIP projects including but not limited to the Solids Capacity Accessment project and evaluation of digester gas meters.
- Submit the NACWA Peak Performance Award application for calendar year 2015.

Other

- Cogen system produced 73% of power consumed for the month of March.

Performance Measurements





USD's Final Effluent Monthly Monitoring Results				
Parameter	**EBDA Limit**	**Jan-16**	**Feb-16**	**Mar-16**
Copper, µg/l	78	5.6	5.2	6.9
Mercury, µg/l	0.066	0.00579	0.00488	0.00343
Cyanide, µg/l	42	< 3	< 3	< 3
Ammonia- N, mg/L (Range)	130	31 - 39	34 - 42	32 - 42
Dioxin-Toxicity Equivalent (TEQ), µg/l	2.8×10^{-8}	not tested	0	not tested
Fecal Coliform, MPN/100ml (Range)				
• 5-Sample Geometric Mean	500	34 - 63	25 - 78	19 - 63
• 11-Sample 90th Percentile	1100	140 - 140	124 - 147	74 - 147
Enterococci *				
• 5-Sample Geometric Mean	242	75 - 135	41 - 134	31 - 63

E = Estimated value, concentration outside calibration range. For SIP, E = DNQ, estimated concentration.

* Enterococci values are the weekly concentration range not the 5-Sample Geometric Mean range.

DATE: April 13, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Pamela Arends-King, Business Services Manager/Chief Financial Officer

SUBJECT: Agenda Item No. 9 - Meeting of April 25, 2016
Consider Adopting Three Resolutions: 1) Adopt, Amend, and Restate ICMA-RC 401(a) Plan #109522; 2) Adopt, Amend, and Restate ICMA-RC 401(a) Plan #109568; and 3) Adopt, Amend, and Restate ICMA-RC 401(a) Plan #109569

Recommendation

Adopt the three Resolutions amending and restating the District's three 401(a) plans.

Background

The IRS has a six-year review schedule for the plan documents ICMA-RC makes available to its clients. The 401(a) plan document received a favorable opinion letter from the IRS last year. The new documents incorporate amendments for legislative and regulatory changes enacted since the prior restatement in 2006.

Per instructions from the IRS, each plan sponsor using the ICMA-RC plan document (USD) is required to execute a new adoption agreement by April 30, 2016. Adopting the restated plan document will ensure the plans are updated in accordance with current IRS regulations.

Changes to the document include incorporating post-EGTRRA (2001 sweeping tax legislation) legislative and regulatory changes, and the Heroes Earnings Assistance and Relief Tax Act of 2008 (HEART) into the standard document, which deals with members in the military. There is also a Final Pay plan provision, an election that new enrollees can make.

Attachments: Adoption Agreement – Governmental Money Purchase Plan & Trust
Resolution for Plan #109522 (GM Plan)
Resolution for Plan #109568 (Director – Work Group Managers)
Resolution for Plan #109569 (Management/Professionals)

ICMA RETIREMENT CORPORATION

GOVERNMENTAL MONEY PURCHASE PLAN & TRUST ADOPTION AGREEMENT

ICMARC

BUILDING PUBLIC SECTOR RETIREMENT SECURITY

ICMA RETIREMENT CORPORATION
GOVERNMENTAL MONEY PURCHASE PLAN & TRUST
ADOPTION AGREEMENT

Plan Number 109522 ___ ___

The Employer hereby establishes a Money Purchase Plan and Trust to be known as UNION SANITARY DISTRICT (the "Plan") in the form of the ICMA Retirement Corporation Governmental Money Purchase Plan and Trust.

This Plan is an amendment and restatement of an existing defined contribution money purchase plan.

☑ Yes ☐ No

If yes, please specify the name of the defined contribution money purchase plan which this Plan hereby amends and restates:

UNION SANITARY DISTRICT

I. Employer: UNION SANITARY DISTRICT

II. Effective Dates

☑ 1. **Effective Date of Restatement.** If this document is a restatement of an existing plan, the effective date of the Plan shall be January 1, 2007 unless an alternate effective date is hereby specified: _____

(Note: An alternate effective date can be no earlier than January 1, 2007.)

☐ 2. **Effective Date of New Plan.** If this is a new Plan, the effective date of the Plan shall be the first day of the Plan Year during which the Employer adopts the Plan, unless an alternate Effective Date is hereby specified: _____

3. **Special Effective Dates.** Please note here any elections in the Adoption Agreement with an effective date that is different from that noted in 1. or 2. above.

*Please see attached document for employees hired January 1, 2013 or after regarding Normal Retirement Age.

(Note provision and effective date.)

III. Plan Year will mean:

☐ The twelve (12) consecutive month period which coincides with the limitation year. (See Section 5.03(f) of the Plan.)

☑ The twelve (12) consecutive month period commencing on July 1 and each anniversary thereof.

IV. Normal Retirement Age shall be age 55.0* (not to exceed age 65).
Important Note to Employers: Normal Retirement Age is significant for determining the earliest date at which the Plan may allow for in-service distributions. Normal Retirement Age also defines the latest date at which a Participant must have a fully vested right to his/her Account. There are IRS rules that limit the age that may be specified as the Plan's Normal Retirement Age. The Normal Retirement Age cannot be earlier than what is reasonably representative of the typical retirement age for the industry in which the covered workforce is employed. An age under 55 is presumed not to satisfy this requirement, unless the Commissioner of Internal Revenue determines that the facts and circumstances show otherwise.

Whether an age between 55 and 62 satisfies this requirement depends on the facts and circumstances, but an Employer's good

Whether an age between 55 and 62 satisfies this requirement depends on the facts and circumstances, but an Employer's good faith, reasonable determination will generally be given deference. A special rule, however, applies in the case of a plan where substantially all of the participants in the plan are qualified public safety employees within the meaning of section 72(t)(10)(B) of the Code, in which case an age of 50 or later is deemed not to be earlier than the earliest age that is reasonably representative of the typical retirement age for the industry in which the covered workforce is employed.

V. ELIGIBILITY REQUIREMENTS

1. The following group or groups of Employees are eligible to participate in the Plan:

   ___ All Employees
   ___ All Full Time Employees
   ___ Salaried Employees
   ___ Non union Employees
   ___ Management Employees
   ___ Public Safety Employees
   ___ General Employees
   ✓ Other Employees (Specify the group(s) of eligible employees below. Do not specify employees by name. Specific positions are acceptable.) General Manager

   The group specified must correspond to a group of the same designation that is defined in the statutes, ordinances, rules, regulations, personnel manuals or other material in effect in the state or locality of the Employer. The eligibility requirements cannot be such that an Employee becomes eligible only in the Plan Year in which the Employee terminates employment. **Note:** As stated in Sections 4.07 and 4.08, the Plan may, however, provide that Final Pay Contributions or Accrued Leave Contributions are the only contributions made under the Plan.

2. The Employer hereby waives or reduces the requirement of a twelve (12) month Period of Service for participation. The required Period of Service shall be (write N/A if an Employee is eligible to participate upon employment) N/A.

   If this waiver or reduction is elected, it shall apply to all Employees within the Covered Employment Classification.

3. A minimum age requirement is hereby specified for eligibility to participate. The minimum age requirement is N/A (not to exceed age 21. Write N/A if no minimum age is declared.)

VI. CONTRIBUTION PROVISIONS

1. **The Employer shall contribute as follows:** (Choose all that apply, but at least one of Options A or B. If Option A is <u>not</u> selected, Employer must pick up Participant Contributions under Option B.)

   Fixed Employer Contributions With or Without Mandatory Participant Contributions. (If Option B is chosen, please complete section C.)

   ☑ A. <u>Employer Contributions.</u> The Employer shall contribute on behalf of each Participant 5 % of Earnings or $ _____ for the Plan Year (subject to the limitations of Article V of the Plan).
   Mandatory Participant Contributions
   ☑ are required ☐ are not required

   to be eligible for this Employer Contribution.

   ☑ B. <u>Mandatory Participant Contributions for Plan Participation.</u>

   <u>Required Mandatory Contributions</u>. A Participant is required to contribute (subject to the limitations of Article V of the Plan) the specified amounts designated in items (i) through (iii) of the Contribution Schedule below:

   ☑ Yes ☐ No

Employee Opt-In Mandatory Contributions. Each Employee eligible to participate in the Plan shall be given the opportunity to irrevocably elect to participate in the Mandatory Participant Contribution portion of the Plan by electing to contribute the specified amounts designated in items (i) through (iii) of the Contribution Schedule below for each Plan Year (subject to the limitations of Article V of the Plan):

☑ Yes ☐ No

Contribution Schedule.

(i) ____5____% of Earnings,
(ii) $ _____ , or
(iii) a whole percentage of Earnings between the range of _____ *(insert range of percentages between 1% and 20% inclusive (e.g., 3%, 6%, or 20%; 5% to 7%))*, as designated by the Employee in accordance with guidelines and procedures established by the Employer for the Plan Year as a condition of participation in the Plan. A Participant must pick a single percentage and shall not have the right to discontinue or vary the rate of such contributions after becoming a Plan Participant.

Employer "Pick up". The Employer hereby elects to "pick up" the Mandatory Participant Contributions[1] (pick up is required if Option A is not selected).

☑ Yes ☐ No ***("Yes" is the default provision under the Plan if no selection is made.)***

☑ C. Election Window (Complete if Option B is selected):
Newly eligible Employees shall be provided an election window of 30 days (no more than 60 calendar days) from the date of initial eligibility during which they may make the election to participate in the Mandatory Participant Contribution portion of the Plan. Participation in the Mandatory Participant Contribution portion of the Plan shall begin the first of the month following the end of the election window.

An Employee's election is irrevocable and shall remain in force until the Employee terminates employment or ceases to be eligible to participate in the Plan. In the event of re-employment to an eligible position, the Employee's original election will resume. In no event does the Employee have the option of receiving the pick-up contribution amount directly.

2. The Employer may also elect to contribute as follows:

☐ A. Fixed Employer Match of Voluntary After-Tax Participant Contributions. The Employer shall contribute on behalf of each Participant ___% of Earnings for the Plan Year (subject to the limitations of Article V of the Plan) for each Plan Year that such Participant has contributed ____% of Earnings or $ _____. Under this option, there is a single, fixed rate of Employer contributions, but a Participant may decline to make the required Participant contributions in any Plan Year, in which case no Employer contribution will be made on the Participant's behalf in that Plan Year.

☐ B. Variable Employer Match of Voluntary After-Tax Participant Contributions. The Employer shall contribute on behalf of each Participant an amount determined as follows (subject to the limitations of Article V of the Plan):

____ % of the Voluntary Participant Contributions made by the Participant for the Plan Year (not including Participant contributions exceeding ____% of Earnings or $ _____);

1 *Neither an IRS advisory letter nor a determination letter issued to an adopting Employer is a ruling by the Internal Revenue Service that Participant contributions that are "picked up" by the Employer are not includable in the Participant's gross income for federal income tax purposes. Pick-up contributions are not mandated to receive private letter rulings; however, if an adopting employer wishes to receive a ruling on pick-up contributions they may request one in accordance with Revenue Procedure 2012-4 (or subsequent guidance).*

PLUS _____% of the contributions made by the Participant for the Plan Year in excess of those included in the above paragraph (but not including Voluntary Participant Contributions exceeding in the aggregate ____% of Earnings or $ _____).

Employer Matching Contributions on behalf of a Participant for a Plan Year shall not exceed $ _____ or ____% of Earnings, whichever is ___ more or ___ less.

3. Each Participant may make a voluntary (unmatched), after tax contribution, subject to the limitations of Section 4.05 and Article V of the Plan:

☑ Yes ☐ No ***("No" is the default provision under the Plan if no selection is made.)***

4. Employer contributions for a Plan Year shall be contributed to the Trust in accordance with the following payment schedule (no later than the 15th day of the tenth calendar month following the end of the calendar year or fiscal year (as applicable depending on the basis on which the Employer keeps its books) with or within which the particular Limitation year ends, or in accordance with applicable law):

BI-WEEKLY

5. Participant contributions for a Plan Year shall be contributed to the Trust in accordance with the following payment schedule (no later than the 15th day of the tenth calendar month following the end of the calendar year or fiscal year (as applicable depending on the basis on which the Employer keeps its books) with or within which the particular Limitation year ends, or in accordance with applicable law):

BI-WEEKLY

6. In the case of a Participant performing qualified military service (as defined in Code section 414(u)) with respect to the Employer:

A. Plan contributions will be made based on differential wage payments:

☐ Yes ☐ No ***("Yes" is the default provision under the Plan if no selection is made.)***

If yes is selected, this is effective beginning January 1, 2009 unless another later effective date is filled in here:

_____

B. Participants who die or become disabled will receive Plan contributions with respect to such service:

☑ Yes ☐ No ***("No" is the default provision under the Plan if no selection is made.)***

If yes is selected, this is effective for participants who died or became disabled while performing qualified military service on or after January 1, 2007, unless another later effective date is filled in here:

_____

VII. EARNINGS

Earnings, as defined under Section 2.09 of the Plan, shall include:

1. Overtime

   ☐ Yes ☑ No

2. Bonuses

   ☐ Yes ☑ No

3. Other Pay (specifically describe any other types of pay to be included below)

VIII. ROLLOVER PROVISIONS

1. The Employer will permit rollover contributions in accordance with Section 4.12 of the Plan:

   ☑ Yes ☐ No ***("Yes" is the default provision under the Plan if no selection is made.)***

2. Direct rollovers by non-spouse beneficiaries are effective for distributions after 2006 unless the Plan delayed making them available. If the Plan delayed making such rollovers available, check the box below and indicate the later effective date in the space provided.

   ☑ Effective Date is 1/1/2010.

   (Note: Plans must offer direct rollovers by non-spouse beneficiaries no later than plan years beginning after December 31, 2009.)

IX. LIMITATION ON ALLOCATIONS

If the Employer maintains or ever maintained another qualified plan in which any Participant in this Plan is (or was) a participant or could possibly become a participant, the Employer hereby agrees to limit contributions to all such plans as provided herein, if necessary in order to avoid excess contributions (as described in Section 5.02 of the Plan).

1. If the Participant is covered under another qualified defined contribution plan maintained by the Employer, the provisions of Section 5.02(a) through (e) of the Plan will apply unless another method has been indicated below.

☐ Other Method. (Provide the method under which the plans will limit total Annual Additions to the Maximum Permissible Amount, and will properly reduce any excess amounts, in a manner that precludes Employer discretion.)

2. The Limitation Year is the following 12 consecutive month period: _____

3. Unless the Employer elects a delayed effective date below, Article 5 of the Plan will apply to limitations years beginning on or after July 1, 2007. _____

   (The effective date listed cannot be later than 90 days after the close of the first regular legislative session of the legislative body with authority to amend the plan that begins on or after July 1, 2007.)

X. VESTING PROVISIONS

The Employer hereby specifies the following vesting schedule, subject to (1) the minimum vesting requirements and (2) the concurrence of the Plan Administrator. (For the blanks below, enter the applicable percent – from 0 to 100 (with no entry after the year in which 100% is entered), in ascending order.)

Period of Service Completed	Percent Vested
Zero	100 %
One	100 %
Two	100 %
Three	100 %
Four	100 %
Five	100 %
Six	100 %
Seven	100 %
Eight	100 %
Nine	100 %
Ten	100 %

XI. WITHDRAWALS AND LOANS

1. In-service distributions are permitted under the Plan after a participant attains (select one of the below options):

   ☐ Normal Retirement Age

   ☑ Age 70½ ***("70½" is the default provision under the Plan if no selection is made.)***

   ☐ Alternate age (after Normal Retirement Age): _____

   ☐ Not permitted at any age

2. A Participant shall be deemed to have a severance from employment solely for purposes of eligibility to receive distributions from the Plan during any period the individual is performing service in the uniformed services for more than 30 days.

   ☑ Yes ☐ No ***("Yes" is the default provision under the plan if no selection is made.)***

3. Tax-free distributions of up to $3,000 for the direct payment of qualifying insurance premiums for eligible retired public safety officers are available under the Plan.

   ☐ Yes ☑ No ***("No" is the default provision under the Plan if no selection is made.)***

4. In-service distributions of the Rollover Account are permitted under the Plan, as provided in Section 9.07.

   ☐ Yes ☑ No ***("No" is the default provision under the Plan if no selection is made.)***

5. Loans are permitted under the Plan, as provided in Article XIII of the Plan:

   ☑ Yes ☐ No ***("No" is the default provision under the Plan if no selection is made.)***

XII. SPOUSAL PROTECTION

The Plan will provide the following level of spousal protection (select one):

☐ 1. Participant Directed Election. The normal form of payment of benefits under the Plan is a lump sum. The Participant can name any person(s) as the Beneficiary of the Plan, with no spousal consent required.

☑ 2. Beneficiary Spousal Consent Election (Article XII). The normal form of payment of benefits under the Plan is a lump sum. Upon death, the surviving spouse is the Beneficiary, unless he or she consents to the Participant's naming another Beneficiary. (***"Beneficiary Spousal Consent Election" is the default provision under the Plan if no selection is made.)***

☐ 3. QJSA Election (Article XVII). The normal form of payment of benefits under the Plan is a 50% qualified joint and survivor annuity with the spouse (or life annuity, if single). In the event of the Participant's death prior to commencing payments, the spouse will receive an annuity for his or her lifetime. (If C is selected, the spousal consent requirements in Article XII also will apply.)

XIII. FINAL PAY CONTRIBUTIONS

The Plan will provide for Final Pay Contributions if either 1 or 2 below is selected.

The following group of Employees shall be eligible for Final Pay Contributions:

☑ All Eligible Employees

☐ Other: _____

Final Pay shall be defined as (select one):

☑ A. Accrued unpaid vacation

☐ B. Accrued unpaid sick leave

☐ C. Accrued unpaid vacation and sick leave

☐ D. Other *(insert definition of Final Pay – must be leave that Employee would have been able to use if employment had continued and must be bona fide vacation and/or sick leave)*:

_____

☐ 1. **Employer Final Pay Contribution.** The Employer shall contribute on behalf of each Participant _____ % of Final Pay to the Plan (subject to the limitations of Article V of the Plan).

☐ 2. **Employee Designated Final Pay Contribution.** Each Employee eligible to participate in the Plan shall be given the opportunity at enrollment to irrevocably elect to contribute ____ % (insert fixed percentage of final pay to be contributed) or up to _____% (insert maximum percentage of final pay to be contributed) of Final Pay to the Plan (subject to the limitations of Article V of the Plan).

Once elected, an Employee's election shall remain in force and may not be revised or revoked.

XIV. ACCRUED LEAVE CONTRIBUTIONS

The Plan will provide for accrued unpaid leave contributions annually if either 1 or 2 is selected below.

The following group of Employees shall be eligible for Accrued Leave Contributions:

☐ All Eligible Employees

☐ Other: _____

Accrued Leave shall be defined as (select one):

☐ A. Accrued unpaid vacation

☐ B. Accrued unpaid sick leave

☐ C. Accrued unpaid vacation and sick leave

☐ D. Other (insert definition of accrued leave that is bona fide vacation and/or sick leave):

_____

☐ 1. **Employer Accrued Leave Contribution.** The Employer shall contribute as follows (choose one of the following options):

☐ For each Plan Year, the Employer shall contribute on behalf of each Eligible Participant the unused Accrued Leave in excess of _____ (insert number of hours/days/weeks (circle one)) to the Plan (subject to the limitations of Article V of the Plan).

☐ For each Plan Year, the Employer shall contribute on behalf of each Eligible Participant _____% of unused Accrued Leave to the Plan (subject to the limitations of Article V of the Plan).

☐ 2. **Employee Designated Accrued Leave Contribution.**

Each eligible Participant shall be given the opportunity at enrollment to irrevocably elect to contribute _____% (insert fixed percentage of accrued unpaid leave to be contributed) or up to ____ % (insert maximum percentage of accrued unpaid leave to be contributed) of Accrued Leave to the Plan (subject to the limitations of Article V of the Plan). Once elected, an Employee's election shall remain in force and may not be revised or revoked.

XV. The Employer hereby attests that it is a unit of state or local government or an agency or instrumentality of one or more units of state or local government.

XVI. The Employer understands that this Adoption Agreement is to be used with only the ICMA Retirement Corporation Governmental Money Purchase Plan and Trust. This ICMA Retirement Corporation Governmental Money Purchase Plan and Trust is a restatement of a previous plan, which was submitted to the Internal Revenue Service for approval on April 2, 2012, and received approval on March 31, 2014.

The Plan Administrator hereby agrees to inform the Employer of any amendments to the Plan made pursuant to Section 14.05 of the Plan or of the discontinuance or abandonment of the Plan. The Employer understands that an amendment(s) made pursuant to Section 14.05 of the Plan will become effective within 30 days of notice of the amendment(s) unless the Employer notifies the Plan Administrator, in writing, that it disapproves of the amendment(s). If the Employer so disapproves, the Plan Administrator will be under no obligation to act as Administrator under the Plan.

XVII. The Employer hereby appoints the ICMA Retirement Corporation as the Plan Administrator pursuant to the terms and conditions of the ICMA RETIREMENT CORPORATION GOVERNMENTAL MONEY PURCHASE PLAN & TRUST.

The Employer hereby agrees to the provisions of the Plan and Trust.

XVIII. The Employer hereby acknowledges it understands that failure to properly fill out this Adoption Agreement may result in disqualification of the Plan.

XIX. An adopting Employer may rely on an advisory letter issued by the Internal Revenue Service as evidence that the Plan is qualified under section 401 of the Internal Revenue Code to the extent provided in applicable IRS revenue procedures and other official guidance.

In Witness Whereof, the Employer hereby causes this Agreement to be executed on this 25th day of April, 2016.

EMPLOYER

By: Maria Buckley

Print Name: Maria Buckley

Title: Principal Financial Analyst

Attest:

ICMA RETIREMENT CORPORATION
777 North Capitol St., NE Suite 600
Washington, DC 20002
800-326-7272

By: _____

Print Name: _____

Title: _____

Attest: _____

April 15, 2016

ICMA Retirement Corporation
777 North Capitol Street, NE
Washington, DC 20002-4240

Re: Union Sanitary District – Normal Retirement Age

Union Sanitary District has two separate Normal Retirement Age designations:

Classification	**Normal Retirement Age**
Classic Employees	55
(Employees who meet the definition of "Classic Members" under the Pension Reform Act of 2013)	
New Members	62
(Employees who meet the definition of a "New Member" under the Pension Reform Act of 2013)	

Sincerely,

Maria Buckley

Maria Buckley
Principal Financial Analyst

5072 Benson Road, Union City, CA 94587-2508
P.O. Box 5050, Union City, CA 94587-8550
(510) 477-7500 FAX (510) 477-7501
www.unionsanitary.com

ICMARC
BUILDING PUBLIC SECTOR
RETIREMENT SECURITY

ICMA RETIREMENT CORPORATION
777 NORTH CAPITOL STREET, NE | WASHINGTON, DC 20002-4240
800-669-7400
WWW.ICMARC.ORG

BRC000-214-21268-201405-W1303

ICMA RETIREMENT CORPORATION

GOVERNMENTAL MONEY PURCHASE PLAN & TRUST ADOPTION AGREEMENT

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BUILDING PUBLIC SECTOR RETIREMENT SECURITY

ICMA RETIREMENT CORPORATION
GOVERNMENTAL MONEY PURCHASE PLAN & TRUST
ADOPTION AGREEMENT

Plan Number 109568

The Employer hereby establishes a Money Purchase Plan and Trust to be known as UNION SANITARY DISTRICT (the "Plan") in the form of the ICMA Retirement Corporation Governmental Money Purchase Plan and Trust.

This Plan is an amendment and restatement of an existing defined contribution money purchase plan.

☑ Yes ☐ No

If yes, please specify the name of the defined contribution money purchase plan which this Plan hereby amends and restates:

UNION SANITARY DISTRICT

I. Employer: UNION SANITARY DISTRICT

II. Effective Dates

☑ 1. **Effective Date of Restatement.** If this document is a restatement of an existing plan, the effective date of the Plan shall be January 1, 2007 unless an alternate effective date is hereby specified: _____

(Note: An alternate effective date can be no earlier than January 1, 2007.)

☐ 2. **Effective Date of New Plan.** If this is a new Plan, the effective date of the Plan shall be the first day of the Plan Year during which the Employer adopts the Plan, unless an alternate Effective Date is hereby specified: _____

3. **Special Effective Dates.** Please note here any elections in the Adoption Agreement with an effective date that is different from that noted in 1. or 2. above.

*Please see attached document for employees hired January 1, 2013 or after, regarding Normal Retirement Age.

(Note provision and effective date.)

III. Plan Year will mean:

☐ The twelve (12) consecutive month period which coincides with the limitation year. (See Section 5.03(f) of the Plan.)

☑ The twelve (12) consecutive month period commencing on July 1 and each anniversary thereof.

IV. Normal Retirement Age shall be age 55.0* (not to exceed age 65).

Important Note to Employers: Normal Retirement Age is significant for determining the earliest date at which the Plan may allow for in-service distributions. Normal Retirement Age also defines the latest date at which a Participant must have a fully vested right to his/her Account. There are IRS rules that limit the age that may be specified as the Plan's Normal Retirement Age. The Normal Retirement Age cannot be earlier than what is reasonably representative of the typical retirement age for the industry in which the covered workforce is employed. An age under 55 is presumed not to satisfy this requirement, unless the Commissioner of Internal Revenue determines that the facts and circumstances show otherwise.

Whether an age between 55 and 62 satisfies this requirement depends on the facts and circumstances, but an Employer's good

Whether an age between 55 and 62 satisfies this requirement depends on the facts and circumstances, but an Employer's good faith, reasonable determination will generally be given deference. A special rule, however, applies in the case of a plan where substantially all of the participants in the plan are qualified public safety employees within the meaning of section 72(t)(10)(B) of the Code, in which case an age of 50 or later is deemed not to be earlier than the earliest age that is reasonably representative of the typical retirement age for the industry in which the covered workforce is employed.

V. ELIGIBILITY REQUIREMENTS

1. The following group or groups of Employees are eligible to participate in the Plan:

   ___ All Employees
   ___ All Full Time Employees
   ___ Salaried Employees
   ___ Non union Employees
   ___ Management Employees
   ___ Public Safety Employees
   ___ General Employees
   ✓ Other Employees (Specify the group(s) of eligible employees below. Do not specify employees by name. Specific positions are acceptable.) Work Group Managers

   The group specified must correspond to a group of the same designation that is defined in the statutes, ordinances, rules, regulations, personnel manuals or other material in effect in the state or locality of the Employer. The eligibility requirements cannot be such that an Employee becomes eligible only in the Plan Year in which the Employee terminates employment. **Note:** As stated in Sections 4.07 and 4.08, the Plan may, however, provide that Final Pay Contributions or Accrued Leave Contributions are the only contributions made under the Plan.

2. The Employer hereby waives or reduces the requirement of a twelve (12) month Period of Service for participation. The required Period of Service shall be (write N/A if an Employee is eligible to participate upon employment) N/A.

   If this waiver or reduction is elected, it shall apply to all Employees within the Covered Employment Classification.

3. A minimum age requirement is hereby specified for eligibility to participate. The minimum age requirement is N/A (not to exceed age 21. Write N/A if no minimum age is declared.)

VI. CONTRIBUTION PROVISIONS

1. **The Employer shall contribute as follows:** (Choose all that apply, but at least one of Options A or B. If Option A is <u>not</u> selected, Employer must pick up Participant Contributions under Option B.)

   Fixed Employer Contributions With or Without Mandatory Participant Contributions. (If Option B is chosen, please complete section C.)

   ☑ A. <u>Employer Contributions.</u> The Employer shall contribute on behalf of each Participant _____% of Earnings or $ 3,000.00 for the Plan Year (subject to the limitations of Article V of the Plan).
   Mandatory Participant Contributions

   ☑ are required ☐ are not required

   to be eligible for this Employer Contribution.

   ☑ B. <u>Mandatory Participant Contributions for Plan Participation.</u>

   <u>Required Mandatory Contributions</u>. A Participant is required to contribute (subject to the limitations of Article V of the Plan) the specified amounts designated in items (i) through (iii) of the Contribution Schedule below:

   ☑ Yes ☐ No

Employee Opt-In Mandatory Contributions. Each Employee eligible to participate in the Plan shall be given the opportunity to irrevocably elect to participate in the Mandatory Participant Contribution portion of the Plan by electing to contribute the specified amounts designated in items (i) through (iii) of the Contribution Schedule below for each Plan Year (subject to the limitations of Article V of the Plan):

☑ Yes ☐ No

Contribution Schedule.

(i) _____% of Earnings,
(ii) $ 3,000.00 , or
(iii) a whole percentage of Earnings between the range of _____ *(insert range of percentages between 1% and 20% inclusive (e.g., 3%, 6%, or 20%; 5% to 7%))*, as designated by the Employee in accordance with guidelines and procedures established by the Employer for the Plan Year as a condition of participation in the Plan. A Participant must pick a single percentage and shall not have the right to discontinue or vary the rate of such contributions after becoming a Plan Participant.

Employer "Pick up". The Employer hereby elects to "pick up" the Mandatory Participant Contributions[1] (pick up is required if Option A is not selected).

☑ Yes ☐ No ***("Yes" is the default provision under the Plan if no selection is made.)***

☑ C. Election Window (Complete if Option B is selected):
Newly eligible Employees shall be provided an election window of 30 days (no more than 60 calendar days) from the date of initial eligibility during which they may make the election to participate in the Mandatory Participant Contribution portion of the Plan. Participation in the Mandatory Participant Contribution portion of the Plan shall begin the first of the month following the end of the election window.

An Employee's election is irrevocable and shall remain in force until the Employee terminates employment or ceases to be eligible to participate in the Plan. In the event of re-employment to an eligible position, the Employee's original election will resume. In no event does the Employee have the option of receiving the pick-up contribution amount directly.

2. The Employer may also elect to contribute as follows:

☐ A. Fixed Employer Match of Voluntary After-Tax Participant Contributions. The Employer shall contribute on behalf of each Participant ___% of Earnings for the Plan Year (subject to the limitations of Article V of the Plan) for each Plan Year that such Participant has contributed ____% of Earnings or $ _____. Under this option, there is a single, fixed rate of Employer contributions, but a Participant may decline to make the required Participant contributions in any Plan Year, in which case no Employer contribution will be made on the Participant's behalf in that Plan Year.

☐ B. Variable Employer Match of Voluntary After-Tax Participant Contributions. The Employer shall contribute on behalf of each Participant an amount determined as follows (subject to the limitations of Article V of the Plan):

____ % of the Voluntary Participant Contributions made by the Participant for the Plan Year (not including Participant contributions exceeding ____% of Earnings or $ _____);

1 *Neither an IRS advisory letter nor a determination letter issued to an adopting Employer is a ruling by the Internal Revenue Service that Participant contributions that are "picked up" by the Employer are not includable in the Participant's gross income for federal income tax purposes. Pick-up contributions are not mandated to receive private letter rulings; however, if an adopting employer wishes to receive a ruling on pick-up contributions they may request one in accordance with Revenue Procedure 2012-4 (or subsequent guidance).*

PLUS _____% of the contributions made by the Participant for the Plan Year in excess of those included in the above paragraph (but not including Voluntary Participant Contributions exceeding in the aggregate ____% of Earnings or $ _____).

Employer Matching Contributions on behalf of a Participant for a Plan Year shall not exceed $ _____ or ____% of Earnings, whichever is ___ more or ___ less.

3. Each Participant may make a voluntary (unmatched), after tax contribution, subject to the limitations of Section 4.05 and Article V of the Plan:

☑ Yes ☐ No ***("No" is the default provision under the Plan if no selection is made.)***

4. Employer contributions for a Plan Year shall be contributed to the Trust in accordance with the following payment schedule (no later than the 15th day of the tenth calendar month following the end of the calendar year or fiscal year (as applicable depending on the basis on which the Employer keeps its books) with or within which the particular Limitation year ends, or in accordance with applicable law):

BI-WEEKLY

5. Participant contributions for a Plan Year shall be contributed to the Trust in accordance with the following payment schedule (no later than the 15th day of the tenth calendar month following the end of the calendar year or fiscal year (as applicable depending on the basis on which the Employer keeps its books) with or within which the particular Limitation year ends, or in accordance with applicable law):

BI-WEEKLY

6. In the case of a Participant performing qualified military service (as defined in Code section 414(u)) with respect to the Employer:

A. Plan contributions will be made based on differential wage payments:

☐ Yes ☐ No ***("Yes" is the default provision under the Plan if no selection is made.)***

If yes is selected, this is effective beginning January 1, 2009 unless another later effective date is filled in here:

_____

B. Participants who die or become disabled will receive Plan contributions with respect to such service:

☑ Yes ☐ No ***("No" is the default provision under the Plan if no selection is made.)***

If yes is selected, this is effective for participants who died or became disabled while performing qualified military service on or after January 1, 2007, unless another later effective date is filled in here:

_____

VII. EARNINGS

Earnings, as defined under Section 2.09 of the Plan, shall include:

1. Overtime

   ☐ Yes ☑ No

2. Bonuses

   ☐ Yes ☑ No

3. Other Pay (specifically describe any other types of pay to be included below)

VIII. ROLLOVER PROVISIONS

1. The Employer will permit rollover contributions in accordance with Section 4.12 of the Plan:

   ☑ Yes ☐ No ***("Yes" is the default provision under the Plan if no selection is made.)***

2. Direct rollovers by non-spouse beneficiaries are effective for distributions after 2006 unless the Plan delayed making them available. If the Plan delayed making such rollovers available, check the box below and indicate the later effective date in the space provided.

   ☑ Effective Date is 1/1/2010.

   (Note: Plans must offer direct rollovers by non-spouse beneficiaries no later than plan years beginning after December 31, 2009.)

IX. LIMITATION ON ALLOCATIONS

If the Employer maintains or ever maintained another qualified plan in which any Participant in this Plan is (or was) a participant or could possibly become a participant, the Employer hereby agrees to limit contributions to all such plans as provided herein, if necessary in order to avoid excess contributions (as described in Section 5.02 of the Plan).

1. If the Participant is covered under another qualified defined contribution plan maintained by the Employer, the provisions of Section 5.02(a) through (e) of the Plan will apply unless another method has been indicated below.

☐ Other Method. (Provide the method under which the plans will limit total Annual Additions to the Maximum Permissible Amount, and will properly reduce any excess amounts, in a manner that precludes Employer discretion.)

2. The Limitation Year is the following 12 consecutive month period: _____

3. Unless the Employer elects a delayed effective date below, Article 5 of the Plan will apply to limitations years beginning on or after July 1, 2007. _____

   (The effective date listed cannot be later than 90 days after the close of the first regular legislative session of the legislative body with authority to amend the plan that begins on or after July 1, 2007.)

X. VESTING PROVISIONS

The Employer hereby specifies the following vesting schedule, subject to (1) the minimum vesting requirements and (2) the concurrence of the Plan Administrator. (For the blanks below, enter the applicable percent – from 0 to 100 (with no entry after the year in which 100% is entered), in ascending order.)

Period of Service Completed	Percent Vested
Zero	100 %
One	100 %
Two	100 %
Three	100 %
Four	100 %
Five	100 %
Six	100 %
Seven	100 %
Eight	100 %
Nine	100 %
Ten	100 %

XI. WITHDRAWALS AND LOANS

1. In-service distributions are permitted under the Plan after a participant attains (select one of the below options):

   ☐ Normal Retirement Age

   ☑ Age 70½ ***("70½" is the default provision under the Plan if no selection is made.)***

   ☐ Alternate age (after Normal Retirement Age): _____

   ☐ Not permitted at any age

2. A Participant shall be deemed to have a severance from employment solely for purposes of eligibility to receive distributions from the Plan during any period the individual is performing service in the uniformed services for more than 30 days.

   ☐ Yes ☐ No ***("Yes" is the default provision under the plan if no selection is made.)***

3. Tax-free distributions of up to $3,000 for the direct payment of qualifying insurance premiums for eligible retired public safety officers are available under the Plan.

   ☐ Yes ☑ No ***("No" is the default provision under the Plan if no selection is made.)***

4. In-service distributions of the Rollover Account are permitted under the Plan, as provided in Section 9.07.

   ☐ Yes ☑ No ***("No" is the default provision under the Plan if no selection is made.)***

5. Loans are permitted under the Plan, as provided in Article XIII of the Plan:

   ☑ Yes ☐ No ***("No" is the default provision under the Plan if no selection is made.)***

XII. SPOUSAL PROTECTION

The Plan will provide the following level of spousal protection (select one):

☐ 1. Participant Directed Election. The normal form of payment of benefits under the Plan is a lump sum. The Participant can name any person(s) as the Beneficiary of the Plan, with no spousal consent required.

☑ 2. Beneficiary Spousal Consent Election (Article XII). The normal form of payment of benefits under the Plan is a lump sum. Upon death, the surviving spouse is the Beneficiary, unless he or she consents to the Participant's naming another Beneficiary. (***"Beneficiary Spousal Consent Election" is the default provision under the Plan if no selection is made.)***

☐ 3. QJSA Election (Article XVII). The normal form of payment of benefits under the Plan is a 50% qualified joint and survivor annuity with the spouse (or life annuity, if single). In the event of the Participant's death prior to commencing payments, the spouse will receive an annuity for his or her lifetime. (If C is selected, the spousal consent requirements in Article XII also will apply.)

XIII. FINAL PAY CONTRIBUTIONS

The Plan will provide for Final Pay Contributions if either 1 or 2 below is selected.

The following group of Employees shall be eligible for Final Pay Contributions:

☑ All Eligible Employees

☐ Other: _____

Final Pay shall be defined as (select one):

☑ A. Accrued unpaid vacation

☐ B. Accrued unpaid sick leave

☐ C. Accrued unpaid vacation and sick leave

☐ D. Other *(insert definition of Final Pay – must be leave that Employee would have been able to use if employment had continued and must be bona fide vacation and/or sick leave)*:

_____

☐ 1. **Employer Final Pay Contribution.** The Employer shall contribute on behalf of each Participant _____ % of Final Pay to the Plan (subject to the limitations of Article V of the Plan).

☐ 2. **Employee Designated Final Pay Contribution.** Each Employee eligible to participate in the Plan shall be given the opportunity at enrollment to irrevocably elect to contribute _____ % (insert fixed percentage of final pay to be contributed) or up to _____% (insert maximum percentage of final pay to be contributed) of Final Pay to the Plan (subject to the limitations of Article V of the Plan).

Once elected, an Employee's election shall remain in force and may not be revised or revoked.

XIV. ACCRUED LEAVE CONTRIBUTIONS

The Plan will provide for accrued unpaid leave contributions annually if either 1 or 2 is selected below.

The following group of Employees shall be eligible for Accrued Leave Contributions:

- ☐ All Eligible Employees
- ☐ Other: _____

Accrued Leave shall be defined as (select one):

- ☐ A. Accrued unpaid vacation
- ☐ B. Accrued unpaid sick leave
- ☐ C. Accrued unpaid vacation and sick leave
- ☐ D. Other (insert definition of accrued leave that is bona fide vacation and/or sick leave):

  _____

☐ 1. **Employer Accrued Leave Contribution.** The Employer shall contribute as follows (choose one of the following options):

- ☐ For each Plan Year, the Employer shall contribute on behalf of each Eligible Participant the unused Accrued Leave in excess of _____ (insert number of hours/days/weeks (circle one)) to the Plan (subject to the limitations of Article V of the Plan).
- ☐ For each Plan Year, the Employer shall contribute on behalf of each Eligible Participant _____% of unused Accrued Leave to the Plan (subject to the limitations of Article V of the Plan).

☐ 2. **Employee Designated Accrued Leave Contribution.**

Each eligible Participant shall be given the opportunity at enrollment to irrevocably elect to contribute _____% (insert fixed percentage of accrued unpaid leave to be contributed) or up to ____ % (insert maximum percentage of accrued unpaid leave to be contributed) of Accrued Leave to the Plan (subject to the limitations of Article V of the Plan). Once elected, an Employee's election shall remain in force and may not be revised or revoked.

XV. The Employer hereby attests that it is a unit of state or local government or an agency or instrumentality of one or more units of state or local government.

XVI. The Employer understands that this Adoption Agreement is to be used with only the ICMA Retirement Corporation Governmental Money Purchase Plan and Trust. This ICMA Retirement Corporation Governmental Money Purchase Plan and Trust is a restatement of a previous plan, which was submitted to the Internal Revenue Service for approval on April 2, 2012, and received approval on March 31, 2014.

The Plan Administrator hereby agrees to inform the Employer of any amendments to the Plan made pursuant to Section 14.05 of the Plan or of the discontinuance or abandonment of the Plan. The Employer understands that an amendment(s) made pursuant to Section 14.05 of the Plan will become effective within 30 days of notice of the amendment(s) unless the Employer notifies the Plan Administrator, in writing, that it disapproves of the amendment(s). If the Employer so disapproves, the Plan Administrator will be under no obligation to act as Administrator under the Plan.

XVII. The Employer hereby appoints the ICMA Retirement Corporation as the Plan Administrator pursuant to the terms and conditions of the ICMA RETIREMENT CORPORATION GOVERNMENTAL MONEY PURCHASE PLAN & TRUST.

The Employer hereby agrees to the provisions of the Plan and Trust.

XVIII. The Employer hereby acknowledges it understands that failure to properly fill out this Adoption Agreement may result in disqualification of the Plan.

XIX. An adopting Employer may rely on an advisory letter issued by the Internal Revenue Service as evidence that the Plan is qualified under section 401 of the Internal Revenue Code to the extent provided in applicable IRS revenue procedures and other official guidance.

In Witness Whereof, the Employer hereby causes this Agreement to be executed on this 25th day of April, 2016.

EMPLOYER

By: Maria Buckley

Print Name: Maria Buckley

Title: Principal Financial Analyst

Attest: [illegible]

ICMA RETIREMENT CORPORATION
777 North Capitol St., NE Suite 600
Washington, DC 20002
800-326-7272

By: _____

Print Name: _____

Title: _____

Attest: _____

April 15, 2016

ICMA Retirement Corporation
777 North Capitol Street, NE
Washington, DC 20002-4240

Re: Union Sanitary District – Normal Retirement Age

Union Sanitary District has two separate Normal Retirement Age designations:

Classification	**Normal Retirement Age**
Classic Employees	55
(Employees who meet the definition of "Classic Members" under the Pension Reform Act of 2013)	
New Members	62
(Employees who meet the definition of a "New Member" under the Pension Reform Act of 2013)	

Sincerely,

Maria Buckley

Maria Buckley
Principal Financial Analyst

5072 Benson Road, Union City, CA 94587-2508
P.O. Box 5050, Union City, CA 94587-8550
(510) 477-7500 FAX (510) 477-7501
www.unionsanitary.com

ICMARC
BUILDING PUBLIC SECTOR
RETIREMENT SECURITY

ICMA RETIREMENT CORPORATION
777 NORTH CAPITOL STREET, NE | WASHINGTON, DC 20002-4240
800-669-7400
WWW.ICMARC.ORG

BRC000-214-21268-201405-W1303

ICMA RETIREMENT CORPORATION

GOVERNMENTAL MONEY PURCHASE PLAN & TRUST ADOPTION AGREEMENT

ICMARC

BUILDING PUBLIC SECTOR RETIREMENT SECURITY

ICMA RETIREMENT CORPORATION
GOVERNMENTAL MONEY PURCHASE PLAN & TRUST
ADOPTION AGREEMENT

Plan Number 109569

The Employer hereby establishes a Money Purchase Plan and Trust to be known as UNION SANITARY DISTRICT (the "Plan") in the form of the ICMA Retirement Corporation Governmental Money Purchase Plan and Trust.

This Plan is an amendment and restatement of an existing defined contribution money purchase plan.

☑ Yes ☐ No

If yes, please specify the name of the defined contribution money purchase plan which this Plan hereby amends and restates:

UNION SANITARY DISTRICT

I. Employer: UNION SANITARY DISTRICT

II. Effective Dates

☑ 1. **Effective Date of Restatement.** If this document is a restatement of an existing plan, the effective date of the Plan shall be January 1, 2007 unless an alternate effective date is hereby specified: _____

(Note: An alternate effective date can be no earlier than January 1, 2007.)

☐ 2. **Effective Date of New Plan.** If this is a new Plan, the effective date of the Plan shall be the first day of the Plan Year during which the Employer adopts the Plan, unless an alternate Effective Date is hereby specified:

_____

3. **Special Effective Dates.** Please note here any elections in the Adoption Agreement with an effective date that is different from that noted in 1. or 2. above.

*Please see attached document for employees hired January 1, 2013 or after, regarding Normal Retirement Age.

(Note provision and effective date.)

III. Plan Year will mean:

☐ The twelve (12) consecutive month period which coincides with the limitation year. (See Section 5.03(f) of the Plan.)

☑ The twelve (12) consecutive month period commencing on July 1 and each anniversary thereof.

IV. Normal Retirement Age shall be age 55.0* (not to exceed age 65).

Important Note to Employers: Normal Retirement Age is significant for determining the earliest date at which the Plan may allow for in-service distributions. Normal Retirement Age also defines the latest date at which a Participant must have a fully vested right to his/her Account. There are IRS rules that limit the age that may be specified as the Plan's Normal Retirement Age. The Normal Retirement Age cannot be earlier than what is reasonably representative of the typical retirement age for the industry in which the covered workforce is employed. An age under 55 is presumed not to satisfy this requirement, unless the Commissioner of Internal Revenue determines that the facts and circumstances show otherwise.

Whether an age between 55 and 62 satisfies this requirement depends on the facts and circumstances, but an Employer's good

Whether an age between 55 and 62 satisfies this requirement depends on the facts and circumstances, but an Employer's good faith, reasonable determination will generally be given deference. A special rule, however, applies in the case of a plan where substantially all of the participants in the plan are qualified public safety employees within the meaning of section 72(t)(10)(B) of the Code, in which case an age of 50 or later is deemed not to be earlier than the earliest age that is reasonably representative of the typical retirement age for the industry in which the covered workforce is employed.

V. ELIGIBILITY REQUIREMENTS

1. The following group or groups of Employees are eligible to participate in the Plan:

   ___ All Employees
   ___ All Full Time Employees
   ___ Salaried Employees
   ___ Non union Employees
   ___ Management Employees
   ___ Public Safety Employees
   ___ General Employees
   ✓ Other Employees (Specify the group(s) of eligible employees below. Do not specify employees by name. Specific positions are acceptable.) Professional (Unclassified)

   The group specified must correspond to a group of the same designation that is defined in the statutes, ordinances, rules, regulations, personnel manuals or other material in effect in the state or locality of the Employer. The eligibility requirements cannot be such that an Employee becomes eligible only in the Plan Year in which the Employee terminates employment. **Note:** As stated in Sections 4.07 and 4.08, the Plan may, however, provide that Final Pay Contributions or Accrued Leave Contributions are the only contributions made under the Plan.

2. The Employer hereby waives or reduces the requirement of a twelve (12) month Period of Service for participation. The required Period of Service shall be (write N/A if an Employee is eligible to participate upon employment) N/A.

   If this waiver or reduction is elected, it shall apply to all Employees within the Covered Employment Classification.

3. A minimum age requirement is hereby specified for eligibility to participate. The minimum age requirement is N/A (not to exceed age 21. Write N/A if no minimum age is declared.)

VI. CONTRIBUTION PROVISIONS

1. **The Employer shall contribute as follows:** (Choose all that apply, but at least one of Options A or B. If Option A is not selected, Employer must pick up Participant Contributions under Option B.)

   Fixed Employer Contributions With or Without Mandatory Participant Contributions. (If Option B is chosen, please complete section C.)

   ☑ A. Employer Contributions. The Employer shall contribute on behalf of each Participant _____% of Earnings or $ 1,850.00 for the Plan Year (subject to the limitations of Article V of the Plan).
   Mandatory Participant Contributions

   ☑ are required ☐ are not required

   to be eligible for this Employer Contribution.

   ☑ B. Mandatory Participant Contributions for Plan Participation.

   Required Mandatory Contributions. A Participant is required to contribute (subject to the limitations of Article V of the Plan) the specified amounts designated in items (i) through (iii) of the Contribution Schedule below:

   ☑ Yes ☐ No

Employee Opt-In Mandatory Contributions. Each Employee eligible to participate in the Plan shall be given the opportunity to irrevocably elect to participate in the Mandatory Participant Contribution portion of the Plan by electing to contribute the specified amounts designated in items (i) through (iii) of the Contribution Schedule below for each Plan Year (subject to the limitations of Article V of the Plan):

☑ Yes ☐ No

Contribution Schedule.

(i) _____% of Earnings,
(ii) $ 1,850.00 , or
(iii) a whole percentage of Earnings between the range of _____ *(insert range of percentages between 1% and 20% inclusive (e.g., 3%, 6%, or 20%; 5% to 7%))*, as designated by the Employee in accordance with guidelines and procedures established by the Employer for the Plan Year as a condition of participation in the Plan. A Participant must pick a single percentage and shall not have the right to discontinue or vary the rate of such contributions after becoming a Plan Participant.

Employer "Pick up". The Employer hereby elects to "pick up" the Mandatory Participant Contributions[1] (pick up is required if Option A is not selected).

☑ Yes ☐ No ***("Yes" is the default provision under the Plan if no selection is made.)***

☑ C. Election Window (Complete if Option B is selected):
Newly eligible Employees shall be provided an election window of 30 days (no more than 60 calendar days) from the date of initial eligibility during which they may make the election to participate in the Mandatory Participant Contribution portion of the Plan. Participation in the Mandatory Participant Contribution portion of the Plan shall begin the first of the month following the end of the election window.

An Employee's election is irrevocable and shall remain in force until the Employee terminates employment or ceases to be eligible to participate in the Plan. In the event of re-employment to an eligible position, the Employee's original election will resume. In no event does the Employee have the option of receiving the pick-up contribution amount directly.

2. The Employer may also elect to contribute as follows:

☐ A. Fixed Employer Match of Voluntary After-Tax Participant Contributions. The Employer shall contribute on behalf of each Participant ___% of Earnings for the Plan Year (subject to the limitations of Article V of the Plan) for each Plan Year that such Participant has contributed ____% of Earnings or $ _____. Under this option, there is a single, fixed rate of Employer contributions, but a Participant may decline to make the required Participant contributions in any Plan Year, in which case no Employer contribution will be made on the Participant's behalf in that Plan Year.

☐ B. Variable Employer Match of Voluntary After-Tax Participant Contributions. The Employer shall contribute on behalf of each Participant an amount determined as follows (subject to the limitations of Article V of the Plan):

____ % of the Voluntary Participant Contributions made by the Participant for the Plan Year (not including Participant contributions exceeding ____% of Earnings or $ _____);

1 *Neither an IRS advisory letter nor a determination letter issued to an adopting Employer is a ruling by the Internal Revenue Service that Participant contributions that are "picked up" by the Employer are not includable in the Participant's gross income for federal income tax purposes. Pick-up contributions are not mandated to receive private letter rulings; however, if an adopting employer wishes to receive a ruling on pick-up contributions they may request one in accordance with Revenue Procedure 2012-4 (or subsequent guidance).*

PLUS _____% of the contributions made by the Participant for the Plan Year in excess of those included in the above paragraph (but not including Voluntary Participant Contributions exceeding in the aggregate ____% of Earnings or $ _____).

Employer Matching Contributions on behalf of a Participant for a Plan Year shall not exceed $ _____ or ____% of Earnings, whichever is ___ more or ___ less.

3. Each Participant may make a voluntary (unmatched), after tax contribution, subject to the limitations of Section 4.05 and Article V of the Plan:

☑ Yes ☐ No ***("No" is the default provision under the Plan if no selection is made.)***

4. Employer contributions for a Plan Year shall be contributed to the Trust in accordance with the following payment schedule (no later than the 15th day of the tenth calendar month following the end of the calendar year or fiscal year (as applicable depending on the basis on which the Employer keeps its books) with or within which the particular Limitation year ends, or in accordance with applicable law):

BI-WEEKLY

5. Participant contributions for a Plan Year shall be contributed to the Trust in accordance with the following payment schedule (no later than the 15th day of the tenth calendar month following the end of the calendar year or fiscal year (as applicable depending on the basis on which the Employer keeps its books) with or within which the particular Limitation year ends, or in accordance with applicable law):

BI-WEEKLY

6. In the case of a Participant performing qualified military service (as defined in Code section 414(u)) with respect to the Employer:

A. Plan contributions will be made based on differential wage payments:

☐ Yes ☐ No ***("Yes" is the default provision under the Plan if no selection is made.)***

If yes is selected, this is effective beginning January 1, 2009 unless another later effective date is filled in here:

_____

B. Participants who die or become disabled will receive Plan contributions with respect to such service:

☑ Yes ☐ No ***("No" is the default provision under the Plan if no selection is made.)***

If yes is selected, this is effective for participants who died or became disabled while performing qualified military service on or after January 1, 2007, unless another later effective date is filled in here:

_____

VII. EARNINGS

Earnings, as defined under Section 2.09 of the Plan, shall include:

1. Overtime

   ☐ Yes ☑ No

2. Bonuses

   ☐ Yes ☑ No

3. Other Pay (specifically describe any other types of pay to be included below)

VIII. ROLLOVER PROVISIONS

1. The Employer will permit rollover contributions in accordance with Section 4.12 of the Plan:

   ☑ Yes ☐ No ***("Yes" is the default provision under the Plan if no selection is made.)***

2. Direct rollovers by non-spouse beneficiaries are effective for distributions after 2006 unless the Plan delayed making them available. If the Plan delayed making such rollovers available, check the box below and indicate the later effective date in the space provided.

   ☑ Effective Date is 1/1/2010.

   (Note: Plans must offer direct rollovers by non-spouse beneficiaries no later than plan years beginning after December 31, 2009.)

IX. LIMITATION ON ALLOCATIONS

If the Employer maintains or ever maintained another qualified plan in which any Participant in this Plan is (or was) a participant or could possibly become a participant, the Employer hereby agrees to limit contributions to all such plans as provided herein, if necessary in order to avoid excess contributions (as described in Section 5.02 of the Plan).

1. If the Participant is covered under another qualified defined contribution plan maintained by the Employer, the provisions of Section 5.02(a) through (e) of the Plan will apply unless another method has been indicated below.

☐ Other Method. (Provide the method under which the plans will limit total Annual Additions to the Maximum Permissible Amount, and will properly reduce any excess amounts, in a manner that precludes Employer discretion.)

2. The Limitation Year is the following 12 consecutive month period: _____

3. Unless the Employer elects a delayed effective date below, Article 5 of the Plan will apply to limitations years beginning on or after July 1, 2007. _____

   (The effective date listed cannot be later than 90 days after the close of the first regular legislative session of the legislative body with authority to amend the plan that begins on or after July 1, 2007.)

X. VESTING PROVISIONS

The Employer hereby specifies the following vesting schedule, subject to (1) the minimum vesting requirements and (2) the concurrence of the Plan Administrator. (For the blanks below, enter the applicable percent – from 0 to 100 (with no entry after the year in which 100% is entered), in ascending order.)

Period of Service Completed	Percent Vested
Zero	100 %
One	100 %
Two	100 %
Three	100 %
Four	100 %
Five	100 %
Six	100 %
Seven	100 %
Eight	100 %
Nine	100 %
Ten	100 %

XI. WITHDRAWALS AND LOANS

1. In-service distributions are permitted under the Plan after a participant attains (select one of the below options):

   ☐ Normal Retirement Age

   ☑ Age 70½ ***("70½" is the default provision under the Plan if no selection is made.)***

   ☐ Alternate age (after Normal Retirement Age): _____

   ☐ Not permitted at any age

2. A Participant shall be deemed to have a severance from employment solely for purposes of eligibility to receive distributions from the Plan during any period the individual is performing service in the uniformed services for more than 30 days.

   ☑ Yes ☐ No ***("Yes" is the default provision under the plan if no selection is made.)***

3. Tax-free distributions of up to $3,000 for the direct payment of qualifying insurance premiums for eligible retired public safety officers are available under the Plan.

   ☐ Yes ☑ No ***("No" is the default provision under the Plan if no selection is made.)***

4. In-service distributions of the Rollover Account are permitted under the Plan, as provided in Section 9.07.

   ☐ Yes ☑ No ***("No" is the default provision under the Plan if no selection is made.)***

5. Loans are permitted under the Plan, as provided in Article XIII of the Plan:

   ☑ Yes ☐ No ***("No" is the default provision under the Plan if no selection is made.)***

XII. SPOUSAL PROTECTION

The Plan will provide the following level of spousal protection (select one):

☐ 1. Participant Directed Election. The normal form of payment of benefits under the Plan is a lump sum. The Participant can name any person(s) as the Beneficiary of the Plan, with no spousal consent required.

☑ 2. Beneficiary Spousal Consent Election (Article XII). The normal form of payment of benefits under the Plan is a lump sum. Upon death, the surviving spouse is the Beneficiary, unless he or she consents to the Participant's naming another Beneficiary. (***"Beneficiary Spousal Consent Election" is the default provision under the Plan if no selection is made.)***

☐ 3. QJSA Election (Article XVII). The normal form of payment of benefits under the Plan is a 50% qualified joint and survivor annuity with the spouse (or life annuity, if single). In the event of the Participant's death prior to commencing payments, the spouse will receive an annuity for his or her lifetime. (If C is selected, the spousal consent requirements in Article XII also will apply.)

XIII. FINAL PAY CONTRIBUTIONS

The Plan will provide for Final Pay Contributions if either 1 or 2 below is selected.

The following group of Employees shall be eligible for Final Pay Contributions:

☑ All Eligible Employees

☐ Other: _____

Final Pay shall be defined as (select one):

☑ A. Accrued unpaid vacation

☐ B. Accrued unpaid sick leave

☐ C. Accrued unpaid vacation and sick leave

☐ D. Other *(insert definition of Final Pay – must be leave that Employee would have been able to use if employment had continued and must be bona fide vacation and/or sick leave)*:

_____

☐ 1. **Employer Final Pay Contribution.** The Employer shall contribute on behalf of each Participant _____ % of Final Pay to the Plan (subject to the limitations of Article V of the Plan).

☐ 2. **Employee Designated Final Pay Contribution.** Each Employee eligible to participate in the Plan shall be given the opportunity at enrollment to irrevocably elect to contribute ____ % (insert fixed percentage of final pay to be contributed) or up to _____% (insert maximum percentage of final pay to be contributed) of Final Pay to the Plan (subject to the limitations of Article V of the Plan).

Once elected, an Employee's election shall remain in force and may not be revised or revoked.

XIV. ACCRUED LEAVE CONTRIBUTIONS

The Plan will provide for accrued unpaid leave contributions annually if either 1 or 2 is selected below.

The following group of Employees shall be eligible for Accrued Leave Contributions:

- ☐ All Eligible Employees
- ☐ Other: _____

Accrued Leave shall be defined as (select one):

- ☐ A. Accrued unpaid vacation
- ☐ B. Accrued unpaid sick leave
- ☐ C. Accrued unpaid vacation and sick leave
- ☐ D. Other (insert definition of accrued leave that is bona fide vacation and/or sick leave):

  _____

☐ 1. **Employer Accrued Leave Contribution.** The Employer shall contribute as follows (choose one of the following options):

- ☐ For each Plan Year, the Employer shall contribute on behalf of each Eligible Participant the unused Accrued Leave in excess of _____ (insert number of hours/days/weeks (circle one)) to the Plan (subject to the limitations of Article V of the Plan).
- ☐ For each Plan Year, the Employer shall contribute on behalf of each Eligible Participant _____% of unused Accrued Leave to the Plan (subject to the limitations of Article V of the Plan).

☐ 2. **Employee Designated Accrued Leave Contribution.**

Each eligible Participant shall be given the opportunity at enrollment to irrevocably elect to contribute _____% (insert fixed percentage of accrued unpaid leave to be contributed) or up to ____ % (insert maximum percentage of accrued unpaid leave to be contributed) of Accrued Leave to the Plan (subject to the limitations of Article V of the Plan). Once elected, an Employee's election shall remain in force and may not be revised or revoked.

XV. The Employer hereby attests that it is a unit of state or local government or an agency or instrumentality of one or more units of state or local government.

XVI. The Employer understands that this Adoption Agreement is to be used with only the ICMA Retirement Corporation Governmental Money Purchase Plan and Trust. This ICMA Retirement Corporation Governmental Money Purchase Plan and Trust is a restatement of a previous plan, which was submitted to the Internal Revenue Service for approval on April 2, 2012, and received approval on March 31, 2014.

The Plan Administrator hereby agrees to inform the Employer of any amendments to the Plan made pursuant to Section 14.05 of the Plan or of the discontinuance or abandonment of the Plan. The Employer understands that an amendment(s) made pursuant to Section 14.05 of the Plan will become effective within 30 days of notice of the amendment(s) unless the Employer notifies the Plan Administrator, in writing, that it disapproves of the amendment(s). If the Employer so disapproves, the Plan Administrator will be under no obligation to act as Administrator under the Plan.

XVII. The Employer hereby appoints the ICMA Retirement Corporation as the Plan Administrator pursuant to the terms and conditions of the ICMA RETIREMENT CORPORATION GOVERNMENTAL MONEY PURCHASE PLAN & TRUST.

The Employer hereby agrees to the provisions of the Plan and Trust.

XVIII. The Employer hereby acknowledges it understands that failure to properly fill out this Adoption Agreement may result in disqualification of the Plan.

XIX. An adopting Employer may rely on an advisory letter issued by the Internal Revenue Service as evidence that the Plan is qualified under section 401 of the Internal Revenue Code to the extent provided in applicable IRS revenue procedures and other official guidance.

In Witness Whereof, the Employer hereby causes this Agreement to be executed on this 25th day of April, 2016.

EMPLOYER

By: Maria Buckley

Print Name: Maria Buckley

Title: Principal Financial Analyst

Attest: [illegible]

ICMA RETIREMENT CORPORATION
777 North Capitol St., NE Suite 600
Washington, DC 20002
800-326-7272

By: _____

Print Name: _____

Title: _____

Attest: _____

April 15, 2016

ICMA Retirement Corporation
777 North Capitol Street, NE
Washington, DC 20002-4240

Re: Union Sanitary District – Normal Retirement Age

Union Sanitary District has two separate Normal Retirement Age designations:

Classification	**Normal Retirement Age**
Classic Employees	55
(Employees who meet the definition of "Classic Members" under the Pension Reform Act of 2013)	
New Members	62
(Employees who meet the definition of a "New Member" under the Pension Reform Act of 2013)	

Sincerely,

Maria Buckley

Maria Buckley
Principal Financial Analyst

5072 Benson Road, Union City, CA 94587-2508
P.O. Box 5050, Union City, CA 94587-8550
(510) 477-7500 FAX (510) 477-7501
www.unionsanitary.com

ICMA RETIREMENT CORPORATION
777 NORTH CAPITOL STREET, NE | WASHINGTON, DC 20002-4240
800-669-7400
WWW.ICMARC.ORG

BRC000-214-21268-201405-W1303

RESOLUTION NO. ____

AMEND AND RESTATE THE QUALIFIED RETIREMENT PLAN NUMBER 9522

WHEREAS, the UNION SANITARY DISTRICT (DISTRICT) has employees rendering valuable services; and

WHEREAS, the DISTRICT has established a qualified retirement plan for such employees that serves the interest of the DISTRICT by enabling it to provide reasonable retirement security for its employees, by providing increased flexibility in its personnel management system, and by assisting in the attraction and retention of competent personnel; and

WHEREAS, the DISTRICT has determined that the continuance of the qualified retirement plan will serve these objectives.

NOW THEREFORE BE IT RESOLVED that the DISTRICT hereby amends and restates the qualified retirement plan (the "Plan") in the form of the ICMA Retirement Corporation Governmental Money Purchase Plan & Trust; and

BE IT FURTHER RESOLVED the assets of the Plan shall be held in trust, with the DISTRICT serving as trustee ("Trustee"), for the exclusive benefit of Plan participants and their beneficiaries, and the assets shall not be diverted to any other purpose. The Trustee's beneficial ownership of Plan assets held in Vantage Trust shall be held for the further exclusive benefit of the Plan participants and their beneficiaries; and

BE IT FURTHER RESOLVED that the DISTRICT hereby agrees to serve as Trustee under the Plan.

On motion duly made and seconded, this resolution was adopted by the following vote on April 25, 2016:

AYES:
NOES:
ABSENT:
ABSTAIN:

_____
JENNIFER TOY
President, Board of Directors
Union Sanitary District

Attest:

_____
PAT KITE
Secretary, Board of Directors
Union Sanitary District

RESOLUTION NO. ____

AMEND AND RESTATE THE QUALIFIED RETIREMENT PLAN NUMBER 9568

WHEREAS, the UNION SANITARY DISTRICT (DISTRICT) has employees rendering valuable services; and

WHEREAS, the DISTRICT has established a qualified retirement plan for such employees that serves the interest of the DISTRICT by enabling it to provide reasonable retirement security for its employees, by providing increased flexibility in its personnel management system, and by assisting in the attraction and retention of competent personnel; and

WHEREAS, the DISTRICT has determined that the continuance of the qualified retirement plan will serve these objectives.

NOW THEREFORE BE IT RESOLVED that the DISTRICT hereby amends and restates the qualified retirement plan (the "Plan") in the form of the ICMA Retirement Corporation Governmental Money Purchase Plan & Trust; and

BE IT FURTHER RESOLVED the assets of the Plan shall be held in trust, with the DISTRICT serving as trustee ("Trustee"), for the exclusive benefit of Plan participants and their beneficiaries, and the assets shall not be diverted to any other purpose. The Trustee's beneficial ownership of Plan assets held in Vantage Trust shall be held for the further exclusive benefit of the Plan participants and their beneficiaries; and

BE IT FURTHER RESOLVED that the DISTRICT hereby agrees to serve as Trustee under the Plan.

On motion duly made and seconded, this resolution was adopted by the following vote on April 25, 2016:

AYES:
NOES:
ABSENT:
ABSTAIN:

_____
JENNIFER TOY
President, Board of Directors
Union Sanitary District

Attest:

_____
PAT KITE
Secretary, Board of Directors
Union Sanitary District

RESOLUTION NO. ____

AMEND AND RESTATE THE QUALIFIED RETIREMENT PLAN NUMBER 9569

WHEREAS, the UNION SANITARY DISTRICT (DISTRICT) has employees rendering valuable services; and

WHEREAS, the DISTRICT has established a qualified retirement plan for such employees that serves the interest of the DISTRICT by enabling it to provide reasonable retirement security for its employees, by providing increased flexibility in its personnel management system, and by assisting in the attraction and retention of competent personnel; and

WHEREAS, the DISTRICT has determined that the continuance of the qualified retirement plan will serve these objectives.

NOW THEREFORE BE IT RESOLVED that the DISTRICT hereby amends and restates the qualified retirement plan (the "Plan") in the form of the ICMA Retirement Corporation Governmental Money Purchase Plan & Trust; and

BE IT FURTHER RESOLVED the assets of the Plan shall be held in trust, with the DISTRICT serving as trustee ("Trustee"), for the exclusive benefit of Plan participants and their beneficiaries, and the assets shall not be diverted to any other purpose. The Trustee's beneficial ownership of Plan assets held in Vantage Trust shall be held for the further exclusive benefit of the Plan participants and their beneficiaries; and

BE IT FURTHER RESOLVED that the DISTRICT hereby agrees to serve as Trustee under the Plan.

On motion duly made and seconded, this resolution was adopted by the following vote on April 25, 2016:

AYES:
NOES:
ABSENT:
ABSTAIN:

_____
JENNIFER TOY
President, Board of Directors
Union Sanitary District

Attest:

_____
PAT KITE
Secretary, Board of Directors
Union Sanitary District

DATE: April 18, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager / District Engineer
Sami E. Ghossain, Manager of Technical Services
Raymond Chau, CIP Coach
Chris Elliott, Associate Engineer

SUBJECT: Agenda Item No. 10 – Meeting of April 25, 2016
Consider a Resolution to Terminate the Emergency Action to Repair the 33-Inch Sewer on Alvarado Boulevard and Final Update on the Repairs

Recommendation

Receive a final update on the repairs and adopt a resolution finding that there is no need to continue the emergency action and terminatethe emergency.

Background

On Wednesday, October 14, 2015, a sinkhole surfaced at the intersection of Alvarado Blvd. and New Haven St. in Union City; see attached location map. The sinkhole was amplified by a subsequent water main break, which was repaired by Alameda County Water District on the same day. Union Sanitary District's 20-foot deep, 33-inch pipeline and manhole located in the intersection were inspected and found to be damaged.

Given the potential for the sinkhole to affect the health and safety of the community and the possible impact to the District facilities, it was determined that an emergency existed and the necessary steps were taken to meet the emergency, secure the site, and start the repair process. Compliance with competitive bidding procedures typically takes a number of months and would not have allowed prompt action to be taken, as required to safeguard the public and District facilities.

Therefore, District staff called upon the District's emergency contractor, McGuire & Hester Inc., for assistance. Immediate repairs to the damaged sewer facilities could not be accomplished due to the high groundwater level and unstable soil conditions. For safety and traffic reasons and to

avoid additional damage to the street, McGuire & Hester quickly stabilized the site by backfilling the sinkhole.

At the Board Meeting of November 9, 2015, the Board adopted a resolution confirming and declaring the need to continue an emergency and authorizing emergency expenditures to allow staff to proceed with expeditious repairs to the 33-inch sewer main, and related appurtenances (e.g. manhole and overflow pipe) on Alvarado Boulevard. Subsequently, at the Board Meetings of November 23, 2015, December 14, 2015, January 11, 2016, January 25, 2016, February 8, 2016, February 22, 2016, March 14, 2016, March 28, 2016, and April 11, 2016, the Board found that there was a need to continue the action and confirmed and declared the continuance of the emergency. The Board meeting of December 28, 2015 was cancelled.

Update on the Alvarado Boulevard Sewer Main Repairs

Trunk Sewer Repair

Efforts to control the high groundwater level and unstable soils were unsuccessful and a trenchless repair was not feasible. Therefore, the damaged facilities were repaired by open-cut method. The approach was to construct a deep shaft around the manhole and pipeline by installing interlocking steel sheet piles, and then to excavate the soil within the shaft down to the pipe. The deep steel sheet piles stopped the inflow of groundwater into the shaft and allowed the necessary cleaning, inspection, and repairs to proceed unhindered.

The six phases for this repair work were as follows:

> ***Phase 1 – PG&E (Complete):*** On December 23rd, PG&E disconnected and removed a gas line to facilitate the excavation necessary to complete the final repairs.
>
> ***Phase 2 – Shoring, Jet Grouting, & Excavation (Complete):*** On December 28th, McGuire & Hester mobilized to begin Phase 2 work. First, seventy (70) feet of Alameda County Water District's (ACWD's) water line which was in conflict with the shoring plan was removed for the duration of the work; it was replaced once the final repairs were complete. Sheet pile installation around the excavation area then began on January 4, 2016, and was completed on January 8, 2016. The sheet pile installation was followed by jet grouting, a process during which grout is injected by pressure into the soils surrounding the sheet piles to seal up gaps and prevent water intrusion into the shaft. Jet grouting work began on January 12, 2016, and was completed on January 29, 2016. The jet grouting was followed by excavation of the shaft itself, which began on February 1, 2016.
>
> On February 2, 2016, excavation work was nearing completion when groundwater began to infiltrate from the bottom of the pit. Before the pit could be dewatered and excavation

work could be resumed, the challenges presented by the groundwater had to be properly addressed. A groundwater dewatering system, supplemental to the one originally installed in October 2015, and comprised of four, 40-foot deep wells, was installed on February 11, 2016. The system pumped for several days and on February 16, 2016, the pit was dewatered and excavation work resumed. On February 19, 2016, a small volume of groundwater was found to be infiltrating from the pipe bedding zone, but was successfully suppressed by point grouting, and pit excavation was completed the same day.

Simultaneously during the final stages of Phase 2 and early stages of Phase 3, Collection Services staff fully cleaned and televised the existing pipeline structures upstream and downstream of the sinkhole manhole to make ready for rehabilitation work.

Phase 3 – Sewer Repair (Complete): Repair work began on February 22, 2016. The damaged manhole along with several feet of pipe on each side of it were completely removed, and then the aggregate foundation and bedding for the new manhole and pipeline were constructed. On February 29 and March 1, 2016, over 700 feet of the existing pipeline upstream and downstream of the damaged manhole was rehabilitated by sliplining. By March 3, 2016, a new concrete manhole base had been poured and the rehabilitated pipelines were connected. On March 11 and 14, 2016, the new sliplined pipeline was grouted into place inside the old pipeline. The following day, March 15, 2016, Collection Services staff televised the new pipeline for final acceptance.

Phase 4 – Backfill (Complete): Pit backfill began on March 3, 2016, even as the sewer repair and rehabilitation activities were finishing, and was completed on March 18, 2016. The new manhole was constructed simultaneously as backfill proceeded upwards in the pit.

Phase 5 – Utilities (Complete): Before the project could be completed, several utilities had to be re-connected. On March 18, 2016, McGuire and Hester began replacement of 70 feet of ACWD's water line removed during Phase 2. This work was later completed on April 1, 2016. During this same time period, on March 22, 2016, the groundwater dewatering systems described above were removed from the site and the dewatering wells were abandoned in place. Then, on March 23 and 29, 2016, PG&E re-installed and reconnected the gas line that was disconnected and removed during Phase 1. Finally, a storm drain line temporarily relocated to facilitate shaft excavation was abandoned in place as directed by the City of Union City on April 4, 2016.

Phase 6 – Site Restoration (In Progress): Final restoration work includes reconstructing the damaged street area, re-paving the street, and returning to normal traffic operations. Excavation, backfill, and compaction activities to remove damaged areas and prepare the new street subgrade began on March 15, 2016, and were completed on April 5, 2016. Curb, gutter, and sidewalk areas were restored on April 7, 2016. Street paving was

completed on April 12, 2016. Substantial completion was achieved on April 14, 2016, at which time the street was re-opened and normal traffic operations resumed. Finally, traffic striping and markers will be installed on April 21, 2016.

District staff coordinated closely with the City of Union City, New Haven Unified School District, Union City Police Dept., Alameda County Fire Dept., ACWD, and contractor McGuire & Hester to accomplish the work in an efficient and safe manner.

Traffic Control

Due to the large size and location of the repair shaft, the resulting available lane width on westbound Alvarado Blvd. was less than 11 feet. Thus, the City's preference was that westbound Alvarado Blvd. between Fair Ranch Rd. and Fredi St. be closed entirely to facilitate the work and provide the staging area needed by McGuire & Hester. This closure went into effect on December 28, 2015, and continued through the duration of the project, which ended on April 14, 2016.

At least one eastbound lane on Alvarado Blvd. was open at all times. Left turns into and out of New Haven St. were closed. Westbound transit buses and vehicular traffic were detoured. The New Haven Unified School District requested help directing traffic at the school entrance near Fredi St. and Horner St. during the street closure, and staff worked with the Union City Police Dept. and McGuire & Hester to provide the appropriate traffic control. The fire truck at Fire Station #32 was able to enter and exit the fire station safely.

Sewer Bypass

McGuire & Hester crews removed plugs and returned to normal sewer flows in the new pipeline on March 16, 2016. Collection Services staff finished cleaning all surcharged sewers upstream of the overflow pipe on March 19, 2016. Efforts by Collection Services staff to control odors concluded once normal sewer flows resumed.

Public Information

Staff continues to develop and issue press releases about the field work on an as-needed basis only. These updates are disseminated via the "What's New" page on the District website, as well as through USD social media.

A CMS (changeable message sign) traffic board as well as other traffic signs notifying motorists of the shutdown of westbound Alvarado Blvd. have now been removed from the site.

Review of Emergency Status

After the determination of an emergency pursuant to Public Contract Code section 22050, the Board is required to review the status of the emergency action at each subsequent meeting until the emergency action is terminated. As discussed above, the sinkhole repairs are now complete. Therefore, staff believes that there is no need to continue the emergency action and that it may be terminated.

PRE/SEG/RC/CE:ks

Attachments: Exhibit A – Location Map
Resolution

EXHIBIT A - LOCATION MAP

ALVARADO BLVD. SEWER REPAIR

RESOLUTION NO. _____

TERMINATE THE EMERGENCY ACTION TO REPAIR 33-INCH SEWER
ON ALVARADO BOULEVARD, UNION CITY

WHEREAS, on Wednesday, October 14, 2015, a sinkhole opened up at the intersection of Alvarado Boulevard and New Haven Street in Union City, California. The sinkhole was amplified by a subsequent water main break, which was repaired by Alameda County Water District that same day. Union Sanitary District's trunk sewer manhole and 33-inch sewer main located in that intersection were inspected and found to be damaged; and

WHEREAS, section 22050 of the California Public Contract Code authorizes the Board to delegate the authority to declare an emergency to the General Manager. The Board has previously made such delegation in Resolution No. 1931 and the District's Purchasing Policy; and

WHEREAS, given the potential for the sinkhole to affect the health and safety of the community and the possible impact to District facilities, and in order to stabilize the sinkhole, the General Manager determined that an emergency existed and took steps and expended funds to meet the emergency, secure the site, and start the repair process through an existing contract with McGuire and Hester for emergency services; and

WHEREAS, the Board of Directors of Union Sanitary District adopted Resolution No. 2768 on November 9, 2015, pursuant to Public Contract Code section 22050(a), finding that based on substantial evidence presented before the Board, the emergency would not permit a delay resulting from the competitive solicitation of bids for the repair of the District's 33-inch sanitary sewer main, it was necessary to respond to the emergency, an emergency continued to exist, and there was a need to continue the action. Resolution No. 2768 further authorized staff to continue to proceed with the repair or replacement of the 33-inch sanitary sewer and the procurement of the necessary equipment, services and supplies for that purpose without giving notice for bids to let contracts; and

WHEREAS, the Board reviewed the status of the emergency at each subsequent meeting of the Board of Directors, and on November 23, 2015, December 14, 2015, January 11, 2016, January 25, 2016, February 8, 2016, February 22, 2016, March 14, 2016, March 28, 2016, and April 11, 2016, adopted a motion by at least a four-fifths vote to authorize continuation of Resolution No. 2768 and the emergency until the emergency action was completed; and

WHEREAS, the repairs to the sinkhole and sewer main and the site restoration work have been completed, and the affected street, Alvarado Boulevard, was reopened to the public on April 14, 2016.

NOW, THEREFORE, BE IT RESOLVED BY THE Board of Directors of Union Sanitary District that:

1. The Board finds that the emergency that began on October 14, 2015, due to the opening of a sinkhole, as confirmed and declared by Resolution No. 2768 and continued through further action of the Board, no longer exists; that the emergency action is complete; and that there is no longer a need to continue the action.

2. The Board hereby declares that the emergency action, as confirmed and declared by Resolution No. 2768 and continued through further action of the Board, is hereby terminated.

On motion duly made and seconded, this resolution was adopted by the following vote on April 25, 2016.

AYES:

NOES:

ABSENT:

ABSTAIN:

_____
Jennifer Toy
President, Board of Directors
UNION SANITARY DISTRICT

Attest:

_____
Pat Kite
Secretary, Board of Directors
UNION SANITARY DISTRICT

DATE: April 19, 2016

MEMO TO: Board of Directors - Union Sanitary District

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

SUBJECT: Agenda Item No. 11 - Meeting of April 25, 2016
Consider Adopting an Ordinance Providing for the Collection of Capacity Charges for Connection to the Main Sewers of Union Sanitary District

Recommendation

Consider Adopting Ordinance No. 35.22, Setting the Capacity Fees Specified Therein for Fiscal Years 2017 through 2020.

Background

Serving the cities of Fremont, Newark, and Union City, Union Sanitary District manages a large collection of facilities that includes over 800 miles of sewer lines, seven pump stations, and the buildings and equipment at the Union City Wastewater Treatment Plant. In total, the District is responsible for operating, maintaining, and replacing over $650.9 million of assets. The District's FY 2016 operating budget is approximately $60.2 million, and raises revenue from two primary sources: (1) Sewer service charges paid by residential customers, businesses, and other users of the system; and (2) Capacity fees paid by developers and other new users when they connect to USD's system.

Sewer capacity fees are separate from USD's ongoing sewer service charges. USD's ongoing sewer service charges are governed by Proposition 218, and as such, subject to Proposition 218's various notice and hearing requirements. In contrast, USD's sewer capacity fees are governed by the Mitigation Fee Act and are one-time fees, imposed when a user makes a new or expanded connection to USD's system. Capacity fees recover the costs for existing facilities and facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged.

District Outreach and Proposed Fees

Prior to this meeting, USD provided notice of the proposed increase in capacity fees and made data supporting the proposed increase available to the public as required by law, including, without limitation, Government Code sections 66013 and 66016. In addition, staff conducted a noteworthy

amount of public and stakeholder outreach to interested parties in an attempt to notify anyone who might be interested, or have concerns. The outreach consisted of the following:

- Notice of a public meeting in the Bay Area News Group paper
- Notification to each City
- Notification to the Chamber of Commerce of each City
- Correspondence with Developers who have expressed interest in the District's fees previously
- Notification to the Homebuilders Association (BIA)
- Notification to the District's Industrial Customers

As of the publishing of this staff report the District has not received any feedback from any stakeholders.

Proposed Capacity Fees

Since the District last evaluated the fee structure in 2010, it was time to re-evaluate the study justifying the current fee structure, including its assumptions and project and unit cost information. These studies are typically re-evaluated approximately every five years. The reasonableness of USD's proposed capacity charges, including the calculation and method and the basis for determining the capacity charge for an equivalent dwelling unit, are presented in a study entitled "Union Sanitary District Capacity Fee Update" ("Capacity Fee Study"), which was made available to the public in accordance with Government Code sections 66013 and 66016.

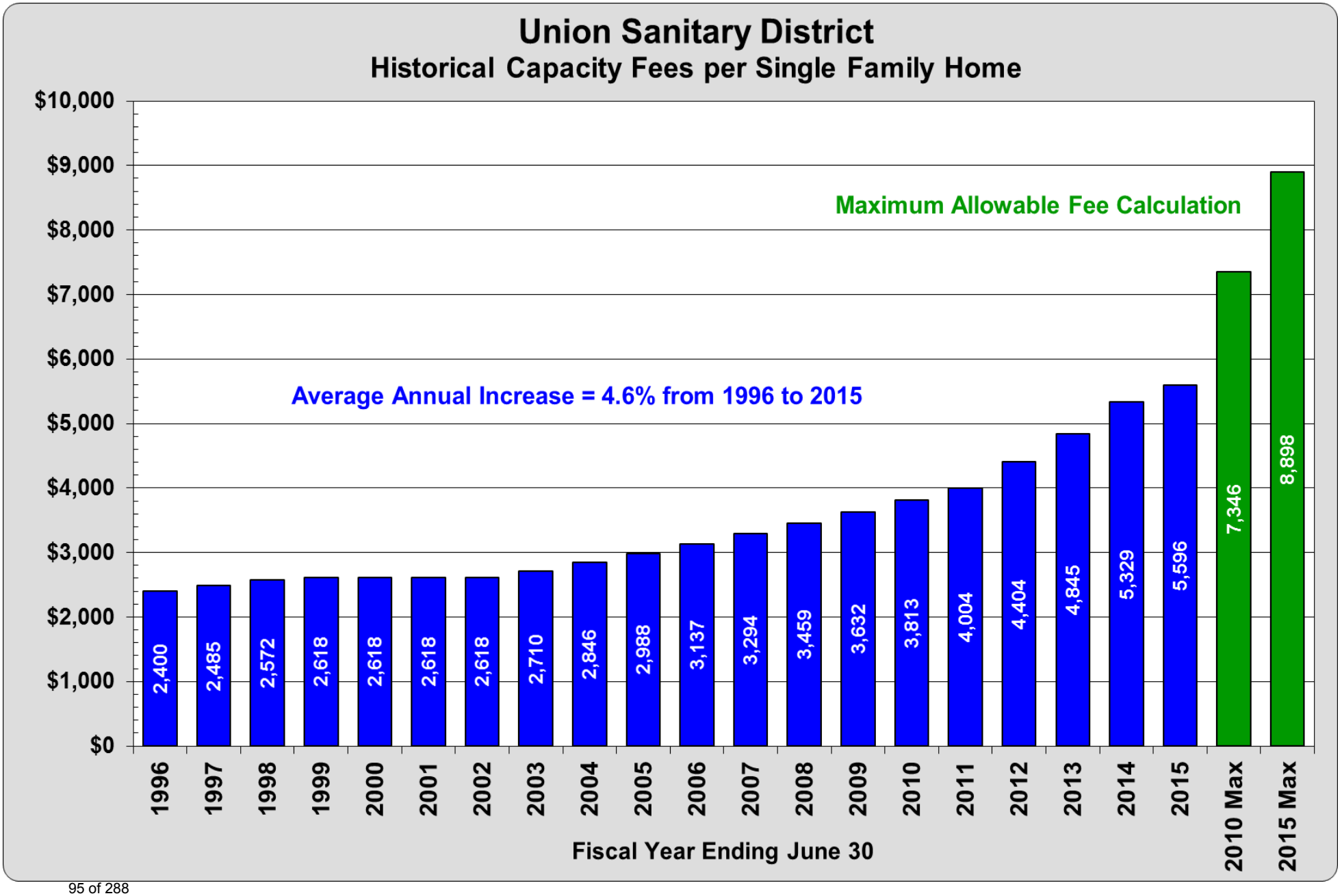
Capacity fees are governed by various California Government Codes requiring that the fees not exceed the estimated reasonable cost of providing the service. These fees have been established based upon this requirement to equitably recover the costs of infrastructure and assets required to support new or renovated development. A good portion of the District's infrastructure dates back to the late 1970's, and the costs to preserve or increase the capacity for new development continue to increase.

The updated Capacity Fee Study is recommending that the capacity fees increase, with the amounts varying depending upon the type of connection (e.g. residential, commercial or industrial). At a previous workshop regarding the capacity fees, the Board of Directors, recognizing that any fee increase can cause concern, recommended that the fee increases proposed by the updated Capacity Fee Study be phased in over a four year period in equal annual installments. This approach would minimize any potential impacts these increases may have by implementing the full fee increase to the amounts proposed by the updated Capacity Fee Study to Fiscal Year 2020.

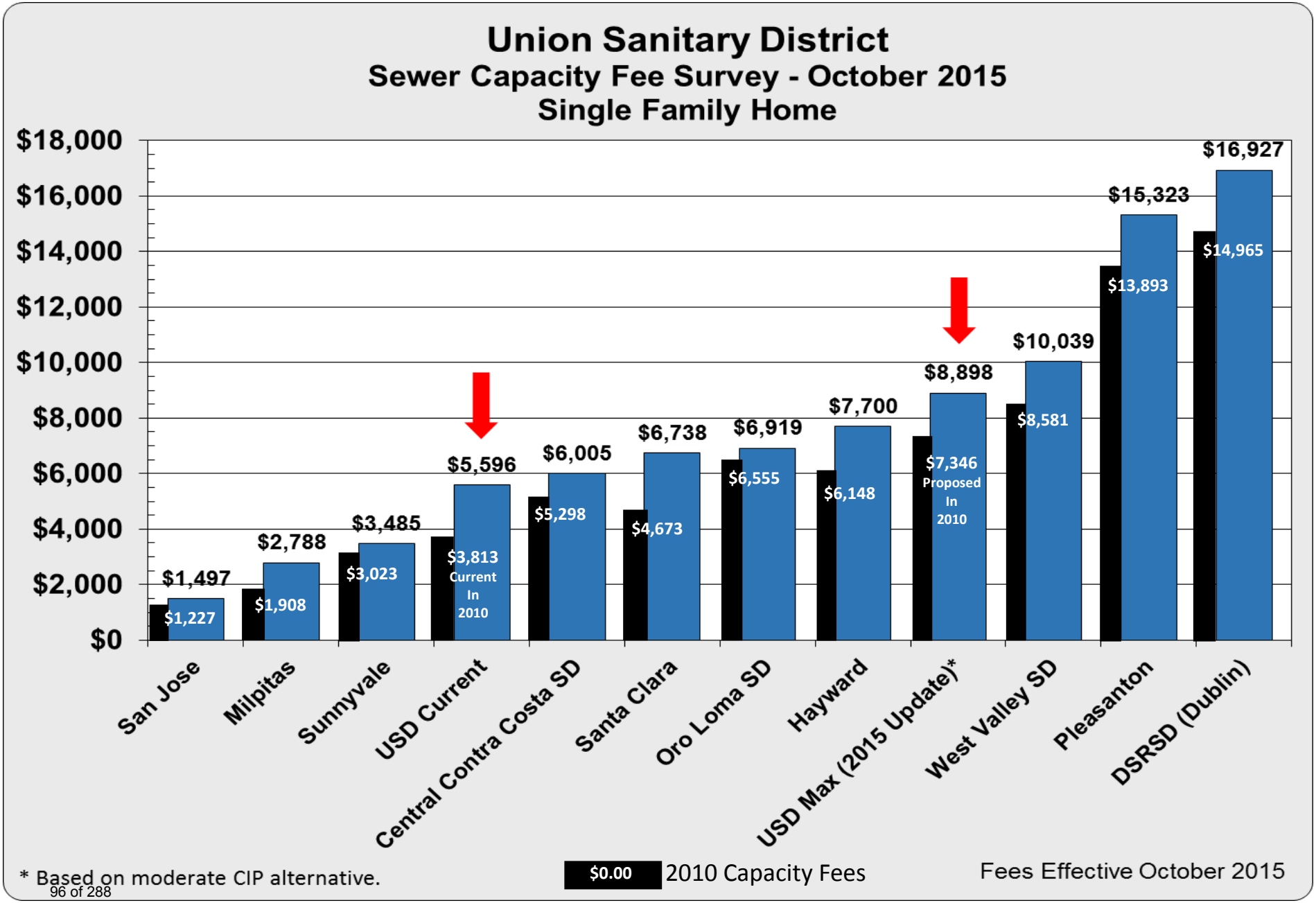
The Capacity Fee for a single family dwelling connection to the sanitary sewer system is proposed to increase to approximately $8,898 over a 4 year period beginning in Fiscal Year 2017. All other categories of capacity fees for connection to the sanitary sewer system are proposed to increase over the same 4 year period and are outlined in the updated Capacity Fee Study, dated April 4, 2016 and Ordinance 35.22, both of which are attached to this staff report. The capacity fees set forth in Ordinance 35.22 do not exceed the actual costs to USD to provide capacity for new and expanded connections.

Attachments:
Attachment 1 – Historical Capacity Fees per Single Family Home
Attachment 2 – Sewer Capacity Fee Survey
Attachment 3 – Capacity Fee Fund Balance
Ordinance 35.22
Capacity Fee Study

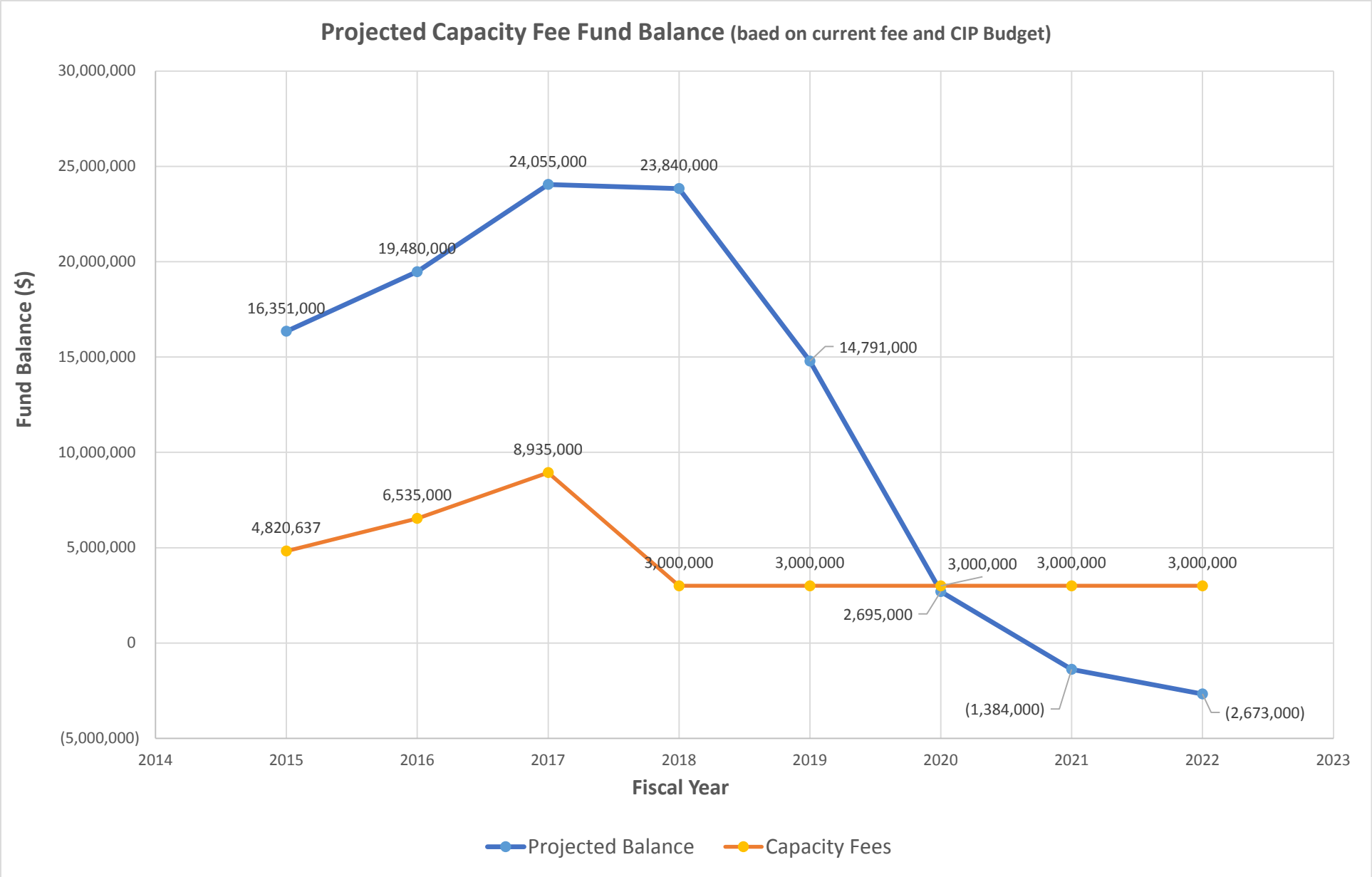
Attachment 1 – Historical Capacity Fees per Single Family Home
Ordinance 35.22 Staff Report, April 25, 2016



Attachment 2 – Sewer Capacity Fee Survey
Ordinance 35.22 Staff Report, April 25, 2016



Attachment 3 – Capacity Fee Fund Balance
Ordinance 35.22 Staff Report, April 25, 2016



ORDINANCE NO. 35.22

AN ORDINANCE PROVIDING FOR THE COLLECTION OF CAPACITY CHARGES FOR CONNECTION TO THE MAIN SEWERS OF UNION SANITARY DISTRICT

The District Board of UNION SANITARY DISTRICT does order and ordain as follows:

ARTICLE I
REPEAL OF PREVIOUS ORDINANCE

Ordinance No. 35.21 is hereby repealed.

ARTICLE II
GENERAL

SECTION 1 SHORT TITLE

This Ordinance shall be known as the "CAPACITY CHARGE ORDINANCE."

SECTION 2 PURPOSE OF THE CAPACITY CHARGE

The District allows new and existing users to buy a share of the District's system's capacity for the discharge of their wastewater. The purpose of the Capacity Charge is to provide revenue to recover costs for existing facilities and facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged.

SECTION 3 USE OF THE CAPACITY CHARGE

Current Capacity Fund Reserves and revenues collected in the future, through the payment of the Capacity Charge will be deposited in a separate Capacity Charge account and will be used for the purposes for which the charges were collected.

SECTION 4 ADOPTION OF A CAPITAL IMPROVEMENT PLAN

The District has prepared a Capital Improvement Plan (CIP) which contains projects and facility upgrades that are required in order to increase or maintain the capacity of the system. The Capital Improvement Plan, which has been reviewed and formally adopted by the Board of Directors, will be revised each year, and an updated Capital Improvement Plan will be adopted by the Board annually.

SECTION 5 REASONABLENESS OF THE CAPACITY CHARGE

In order to demonstrate the reasonableness of the District's Capacity Charge, the calculation method and the basis for determining the Capacity Charge for an equivalent dwelling unit (EDU) are presented in a separate report entitled "Union Sanitary District, Sewer Capacity Fee Update,"

and may be referenced by contacting the District. The Capacity Charges set forth in this Ordinance do not exceed the actual costs to the District to provide capacity for new connections.

SECTION 6 DEFINITIONS

Unless the context indicates otherwise, the following words and terms shall have the meaning as follows:

a. **Boarding Establishment Unit.** One or more rooms with centralized kitchen facilities designed for use by transients, students, retirees, or other occupants for living and/or sleeping purposes. Each separate room which is designed for occupancy by one or more persons or which serves as one housekeeping unit shall be deemed to be one living unit. For facilities with only communal living space, the design occupancy shall be deemed as the determining factor for the Capacity Charge.

b. **Building Sewer.** A sewer conveying wastewater from the property of the user to a main sewer. Also referred to as a private sewer or lateral.

c. **Building Sewer Construction Permit.** A permit issued by UNION SANITARY DISTRICT allowing the construction and connection of a building sewer line to the main sewer.

d. **Capacity Charge.** The charge to be made by the UNION SANITARY DISTRICT for a sewer connection either directly or indirectly to a main sewer; or, for a change, alteration, or expansion of the use of an existing building, as listed in and in accordance with all the provisions of Article III herein.

e. **Chemical Oxygen Demand (COD).** The equivalent quantity of oxygen utilized during oxidation of organic and inorganic matter in wastewater under the conditions of the COD test as described in the latest edition of "Standard Methods for the Examination of Water and Wastewater", expressed in milligrams per liter.

f. **Chemical Oxygen Demand (COD) loading.** The annual average mg/L COD multiplied by the total annual industrial wastewater discharge volume in million gallons multiplied by the conversion factor 8.34.

g. **Commercial/Industrial/Office Use (C/I/O) (Domestic Use Only).** A parcel of real property designed for use by a single tenant for a single commercial or industrial use whose discharge is limited to domestic waste only. Examples include retail sales, office space, showrooms, and other uses producing domestic waste only, which do not fall into one of the other specifically designated categories. Also included in this category are individual tenant units in the C/I/O category whose floor space exceeds 10,000 square feet and are located within a building or parcel within the Mixed-Use category.

h. **District.** Union Sanitary District of Alameda County, California.

i. **District Engineer.** The General Manager of the District or his designees, including, but not limited to, duly authorized personnel.

j. **Domestic Loading.** The Domestic Premise in terms of pounds/yr. allocating 20 gallons/day/employee to be used in the absence of a separate approved industrial wastewater or industrial process water flow meter.

k. **Domestic Premise.** Domestic loading equal to 500 mg/L COD and 200 mg/L SS.

l. **Domestic Wastewater.** Any wastewater which will enter into the main sewers from the non-industrial operation, preparation, cooking and handling of food; or, containing human wastes and similar matter from the sanitary conveniences of dwellings, commercial buildings, industrial facilities and installations.

m. **Dwelling Unit.** The following living establishments shall be deemed to be one dwelling unit:

(i) Single family residential dwelling or mobile home designed for occupancy by one family and up to 4,500 square feet of building area. Single family residential dwelling units above 4,500 square feet will be charged an additional proportionate charge above 4,500 square feet.

(ii) Multi-family dwelling is each housekeeping unit of a: duplex, triplex, fourplex, townhouse or condominium, apartment house, mobile home park, or other multi-residential establishment designed for occupancy for living purposes by more than one family, and which is divided into separate housekeeping units, each of which is designed for occupancy by one family only.

n. **Groundwater.** Any water found below the land surface or from saturated soil including: potable or irrigation water source wells, injected subsurface water, rising subsurface water, underground infiltration to manmade structures, pumped subsurface waters, foundation and footing drainage, water from crawl space pumps, natural springs, and subsurface flows from riparian habitats, streams, and wetlands.

o. **Industrial User.** Any establishment engaged in producing, manufacturing, or processing operations, and all other establishments engaged in any activity resulting in the production of industrial wastewater which will enter into the sewer system.

p. **Industrial Wastewater.** Any non-domestic wastewater which will enter into the main sewers by being discharged, permitted to flow or escape from any industrial, manufacturing, commercial, or business establishment or process; or from the development, recovery, or processing of any natural resource. Industrial wastewater is directly reported from a separate approved industrial wastewater flow meter or industrial

process water flow meter; otherwise, industrial wastewater is calculated from potable water meter sources excluding a calculated percentage of non-industrial use.

q. **Loadings.** The equivalent weight of Chemical Oxygen Demand and Suspended Solids discharged to the main sewer system during a given time interval. Unless otherwise specified, the loadings shall mean pounds per day or per year of a particular constituent or combination of constituents.

r. **Main Sewer.** An existing sanitary sewer dedicated to public use, within the public right of way or dedicated easement.

s. **Mixed Use Commercial Property.** A parcel of real property designed for the occupancy of multiple tenants, such as a shopping center. Examples of acceptable uses on mixed use commercial properties include; retail sales outlets, restaurants, offices, service companies, health clubs, laundromats, theaters, and similar commercial uses. Individual tenant units whose floor area exceeds 10,000 square feet and whose use is consistent with the C/I/O category may be included in the Commercial/Industrial/Office Use (C/I/O) category.

t. **Person.** Any individual, firm, company, partnership or association; private, public, and municipal corporations; responsible corporate officer; the United States of America; the State of California; districts and all political subdivisions; governmental agencies and mandatories thereof.

u. **Private Cafeteria.** A food service facility within a school, commercial or industrial building which is used exclusively by the students or employees of the company or school. Cafeterias which are open to the public, or provide catering or off-site food service to other companies will be considered a restaurant. Capacity Charges for private cafeterias will be based on the area of food preparation, cooking, food storage, and food serving areas but shall exclude seating areas.

v. **Property.** A parcel of real estate or portion thereof, including any improvements thereon, which is determined by the District to be a single user for purposes of receiving, using, and paying for service.

w. **Public Assembly Facilities**. Any facility where the public may assemble for social, business, educational or entertainment purposes, including, but not limited to, movie theaters, auditoriums, theaters and music halls.

x. **Suspended Solids (SS).** The solids that either float on the surface of, or are in suspension in, wastewater and which are largely removable by standard laboratory filtration procedures, expressed in milligrams per liter.

y. **Suspended Solids (SS) loading.** The annual average mg/L SS multiplied by the total annual industrial wastewater discharge volume in million gallons multiplied by the conversion factor 8.34.

z. **User.** Any person that discharges, causes, or permits the discharge of wastewater into a main sewer.

aa. **Volume.** The quantity of wastewater discharged during a specified period of time, expressed in gallons.

bb. **Warehouse.** A building or portion of a building used exclusively for the storage of goods. The following uses are NOT considered warehouse use:

1. Storage areas for goods or finished products within a manufacturing plant or commercial building that are not separated by a permanent partition wall, and or

2. Storage areas that do not exceed 5,000 square feet in area.

Warehouse buildings that contain office, industrial, or other non-warehouse areas, totaling more than ten percent of the gross area of the entire building, will be segregated into separate uses and charged the appropriate rate for each different use. Otherwise, the warehouse rate shall apply to the gross area of the entire building. Shipping, receiving, and packing areas serving warehouses more than 50,000 square feet in area will be charged under the Warehouse category.

Whenever the use of a proposed building or part of a building is not clear or not determined prior to connecting to the sanitary sewer, the Commercial/Industrial/Office Use rate will be used to calculate the Capacity Charge. If, after the building is first occupied, it becomes evident that it, or part of it, is being used exclusively for warehouse purposes, as described herein, a refund may be issued.

cc. **Wastewater Discharge Permit.** A permit issued by UNION SANITARY DISTRICT authorizing the discharge of groundwater or industrial wastewater by an industrial user, either directly or indirectly into a main sewer.

SECTION 7 TERMINOLOGY

Words, phrases, or terms not specifically defined herein and having a technical or specialized meaning shall be defined as set forth in the latest edition of "Standard Methods for the Examination of Water and Wastewater," published by the American Public Health Association, the American Water Works Association and the Water Environment Federation. Reference to waste constituents and characteristics shall have the meanings ascribed to them in the aforesaid "Standard Methods for the Examination of Water and Wastewater" and measurements thereof shall be as set forth in said publication, or as established by Federal or State regulatory agencies.

ARTICLE III

BASIS FOR CAPACITY CHARGES

SECTION 1 CAPACITY CHARGES

The Capacity Charges set forth in "**Exhibit A**" are hereby adopted as the District's Capacity Charges beginning in Fiscal Year 2017 and continuing thereafter. The Capacity Charges will increase to the amounts specified in **Exhibit A** for each Fiscal Year annually on July 1st of each year. The Board hereby finds that the Capacity Charges set forth in **Exhibit A** do not exceed the District's actual costs for providing capacity for new sewer connections in its wastewater system. **Exhibit A** to this Ordinance is hereby incorporated herein by reference to this Ordinance.

SECTION 2 DOMESTIC WASTEWATER

The Capacity Charge to be paid for connecting either directly or indirectly to a main sewer shall be determined by the District based upon the existing or proposed use of the property to be served, in accordance with the amounts and formulas set forth in **Exhibit A**.

SECTION 3 INDUSTRIAL WASTEWATER

Properties with industrial wastewater discharges will be charged a Domestic Wastewater Capacity Charge and an Industrial Capacity Charge in accordance with the amounts and formulas set forth in **Exhibit A,** which will be divided into four annual installments.

a. **Initial Charge.** The initial charge shall be the sum of the Volume Component, COD Component, and Suspended Solids Component for the Initial Charges for Industrial connections in the amounts set forth in **Exhibit A** and shall be based upon the unit rates in effect at the time the prospective user enters into an agreement with UNION SANITARY DISTRICT. The total Capacity Charge shall be charged over a four year period with the initial charge based upon estimates and subsequent charges based upon actual flows as further described in section b. below.

b. **Succeeding Three Annual Charges.** At the time a Building Sewer Construction Permit is issued, or prior to the issuance of a Wastewater Discharge Permit, the prospective user shall enter into an agreement with UNION SANITARY DISTRICT which shall provide that there be three additional charges due and payable upon billing at the end of the first, second, and third year from the date of acceptance of the building sewer or issuance of a Wastewater Discharge Permit. Each of these annual charges shall be based upon the unit rates in effect at the time the prospective user enters into an agreement with the District and shall be equal to the sum of Volume Component, COD Component, and Suspended Solids Component for Industrial connections in the amounts set forth in **Exhibit A**.

   Final paid capacity is the average of 4 payments which creates a baseline represented by the combination of the three parameters; flow, COD, and SS, provided that any increase in the combined industrial flow and loadings does not exceed the initial estimate by more than 25%.

c. **Excess Capacity.** In the event that the combined industrial flow and loadings exceed the initial estimate by more than 25%, an additional Capacity Charge shall be paid over 4 years, concurrently with the initial payment and succeeding annual payments, for the entire increase at the present-day rate.

d. **Single Installment Amount.** If the calculated charges for an industrial use total less than $500, the initial charge and the succeeding annual charges shall be paid in a single installment prior to the issuance of any permit.

SECTION 4 GROUNDWATER DISCHARGE

If a discharge permit is granted for groundwater, from the cleanup of spills, leaking underground storage tanks, monitoring wells or other similar sources, the duration of discharge will govern Capacity Charges. If discharge is for less than one year, ten percent of the minimum Capacity Charge will be assessed. For discharge durations of one year or greater, the Capacity Charge will be calculated by multiplying the actual volume of groundwater discharged by ten percent of the industrial wastewater volume component in effect that year, up to a maximum of ten years. Completion of discharge will terminate any ongoing capacity rights.

SECTION 5 MINIMUM CAPACITY CHARGE

In no case shall the minimum Capacity Charge for any initial connection to the District's system be less than the domestic wastewater Capacity Charge for a multi-family dwelling unit.

ARTICLE IV

ALLOWANCE FOR INDUSTRIAL CREDITS, REVIEW OF CHARGES AND CHANGES IN PROPERTY USE

SECTION 1 QUALIFICATION FOR INDUSTRIAL RELOCATION CREDIT

This section shall apply to industrial wastewater only, not to domestic wastewater. If the transfer of an industry discharging industrial wastewater to a different parcel of land does not impose any additional burden on the District's facilities, a credit, which shall be referred to as a relocation credit, may be allowed, provided that:

(i) the owner of the real property, from which the industry is moving, is willing to relinquish the industrial wastewater capacity for the purpose of a relocating tenant or relocating industrial process.

(ii) essentially the same industrial operation has been transferred from one parcel to another and such operation was previously connected to the District's system;

(iii) the industrial operation was owned prior to the transfer by the person now making claim to the relocation credit;

(iv) the discharger has demonstrated to the satisfaction of the District that the industrial operation has been abandoned from the parcel from which the transfer

has occurred, or presented a certification in writing and a performance bond of equal or greater value than the relocation credit that such industrial operation will be abandoned within six (6) months of the District approving an application for connection. Should the facility not be abandoned within the prescribed period, the relocation credit shall be revoked and a Capacity Charge, with respect to the parcel to which the industrial operation transferred, shall be due and payable as of the date said parcel was connected to the District's system; and

(v) there is adequate capacity in the District's system at the new location to accommodate connection of the industrial operation to be transferred.

SECTION 2 BASIS FOR RELOCATION CREDIT

The relocation credit shall be based upon the amount of capacity purchased. If a record of the amount of capacity purchased does not exist the average of the total annual discharge of: the number of gallons of industrial wastewater, number of pounds of Chemical Oxygen Demand (exclusive of COD domestic loading), and number of pounds of Suspended Solids (exclusive of SS domestic loading) for the preceding four (4) years, or years of operation if less than four (4) years, prior to the transfer. In no case shall there be a refund or a credit applied to any other type of fee or charge if the fee for the industrial wastewater discharge for the relocated industrial operation is less than the relocation credit allowed.

SECTION 3 REVIEW OF CAPACITY CHARGE

Capacity Charges or relocation credit determined under Article III and Article IV may be reviewed at the applicant's request. The review will be based on the use data provided by the applicant and other criteria to be established by the District for a review fee of $25.00. Any requested adjustments to the Capacity Charge using this method are subject to verification by the District using District sampling, monitoring, and analysis procedures. All verification costs must be paid by the applicant. After completion of the District's review, the questioned Capacity Charge may be adjusted up or down in accordance with the results of the verification study.

SECTION 4 CHANGE OF PROPERTY USE

a. **Industrial Wastewater.** If the existing use of a building or property is changed, an industrial process is altered, production is increased or any other change, or alteration will increase the existing combined industrial wastewater flow and loadings by more than 25%, an additional Capacity Charge shall be paid over 4 years for the entire increase at the present-day rate.

b. **Change in Building Size.** If the existing size of a building or property is expanded, added onto, increased, or otherwise physically modified, an additional Capacity Charge applicable to the expansion, addition, or increase shall be paid. In no instance shall a refund be granted if the size of a building or property is decreased.

c. **Domestic Wastewater Changes in Use**. When the use of a building or property is modified or changed, such as a change in tenants, or a change in the type of business occupying the property, the District will consider this a change in use. Each change in use

shall be reviewed by the District to determine if an additional Capacity Charge will apply. An additional Capacity Charge shall apply whenever the Capacity Charge calculated for the new use is greater than the value of Capacity Charges already paid for the former use. For the purpose of this comparison, the current Capacity Charges as listed in Article III of this Ordinance, shall apply to both the new and former use. Whenever the Capacity Charge calculated for the new use exceeds the value of the Capacity Charges already paid for the former use, the difference shall be paid to the District as an additional Capacity Charge for the change of use. In no instance shall a refund be granted if the change in the use of a building or property results in the value of Capacity Charges paid for the former use being greater than the cost of the Capacity Charge calculated for the new use.

d. **Credit for Previously Purchased Capacity.** If the existing size or use of a building or property is expanded, added onto, or increased, a credit may be allowed based on verified previously purchased capacity that is retained on the property site. This verification will include review of District records and any records supplied to the District. If no credible records exist then no credit will be allowed. In no instance shall a refund be granted if the decreased use of a building or property results in a lower discharge volume and/or loading level than that for which Capacity Charges have previously been paid.

e. **Payment Due Date.** If a Building Sewer Construction Permit or a new or revised Wastewater Discharge Permit is required as a result of an expansion of a building or property and/or the increase in flow or loadings from the property, additional Capacity Charges shall be paid prior to the issuance of the permit. If neither permit is required, additional Capacity Charges shall be paid upon billing by the UNION SANITARY DISTRICT and be delinquent thirty (30) days thereafter.

ARTICLE V

PAYMENT AND DEPOSITION OF CHARGES

SECTION 1 PAYMENT OF INITIAL CHARGES

No building sewer or building drain shall be constructed and connected to any main sewer until the UNION SANITARY DISTRICT has issued a Building Sewer Construction Permit in accordance with District specifications and a Capacity Charge has been paid to the District. The Capacity Charge shall be in addition to the annual sewer service charge, charges for annexation, inspection, permits, reimbursements, and the requirements of any other rule, regulation, or ordinance of the UNION SANITARY DISTRICT.

SECTION 2 PAYMENT OF SUCCEEDING CHARGES

All charges prescribed under this Ordinance are payable upon billing and delinquent at the expiration of thirty (30) days thereafter. If it is necessary to initiate legal action to collect the delinquent obligation, all penalties allowed by the law will be applied. In addition to all other means of legal process available for the collection of the delinquent charges, the UNION SANITARY DISTRICT may elect to have the delinquent charges collected on the property tax roll in the same manner, by the same persons, at the same time as, and together with and not

separately from general taxes in accordance with the provisions of 5473 and 5474 et seq. of the California Health and Safety Code. Delinquent tenant Capacity Charges will be charged against the property of the owner of the premises occupied by the tenant.

SECTION 3 DEPOSITION OF FUNDS

The collected Capacity Charges shall be deposited in the Capacity Charge Fund.

ARTICLE VI
ADMINISTRATION

SECTION 1 APPEALS

Any user, permit applicant, or permit holder affected by any decision, action, or determination made by the District interpreting or implementing the provisions of this Ordinance may file a written request for reconsideration with the District Engineer, setting forth in detail the facts supporting the user's request.

If the ruling made by the District Engineer is unsatisfactory to the person requesting reconsideration, he may file a written appeal to the District's governing body within ten (10) days after notification of the District's action. The written appeal shall be heard by the governing body within thirty (30) days from the date of filing or as soon thereafter as reasonably possible. The District's governing body shall make a final ruling on the appeal within thirty (30) days of the meeting. The District Engineer's decision, action, or determination shall remain in effect during the period of reconsideration.

SECTION 2 FALSIFYING OF INFORMATION

Any person who knowingly makes any false statements, representation, record, report, plan or other document filed with the District; or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under this Ordinance, is hereby declared to be in violation of this Ordinance, and subject to the Civil Penalties imposed under Section 7.05 of UNION SANITARY DISTRICT'S Ordinance No. 36.

SECTION 3 SEVERABILITY

If any provision of this Ordinance or the application to any person or circumstances is held invalid, the remainder of the Ordinance or the application of such provisions to other persons or other circumstances shall not be affected.

SECTION 4 EFFECTIVE DATE

A summary of the changes to this Ordinance shall be published once in the Bay Area News Group, a newspaper of general circulation published in the UNION SANITARY DISTRICT, and shall take effect sixty days thereafter.

On Motion duly made and seconded, this Ordinance was adopted by the following vote on April 25, 2016.

AYES:

NOES:

ABSENT:

ABSTAIN:

_____

President, Board of Directors
UNION SANITARY DISTRICT

ATTEST:

_____

Secretary, Board of Directors
UNION SANITARY DISTRICT

ORDINANCE 35.22
EXHIBIT A

Connection Category	Unit Definition	Charge Per Unit Per Fiscal Year (e.g. FY2017 Begins on July 1, 2016 and then every July 1 thereafter)				
Residential & Commercial		**2016**	**2017**	**2018**	**2019**	**2020**
Single Family Dwelling Unit (less than or equal to 4,500 square feet)	*per unit (new construction only; not additions or repairs)*	$5,595.66	$6,421.17	$7,246.69	$8,072.20	$8,897.71
Single Family Dwelling Unit (greater than 4,500 square feet)	*per unit plus proportionate charge above 4,500 square feet (i.e. charge for 4,600 square feet =4600/4500 x unit charge)*	$5,595.66	$6,421.17	$7,246.69	$8,072.20	$8,897.71
Multi-Family Dwelling Unit	*per unit (new construction only; not additions or repairs)*	$4,796.28	$5,503.86	$6,211.45	$6,919.03	$7,626.61
Mixed-use Commercial property with individual tenant units less than 10,000 sq ft	*per square foot of building floor area*	$6.36	$7.39	$8.43	$9.46	$10.49
Commercial/Industrial/Office use (C/I/O) (Domestic Use Only) and Mixed Use Commercial Property with individual tenant units exceeding 10,000 sq ft	*per square foot of building floor area*	$2.64	$2.99	$3.33	$3.68	$4.02
Boarding Establishments Including Hotels and Motels	*per unit, OR*	$3,733.21	$4,282.86	$4,832.51	$5,382.16	$5,931.81
	per capita design tenant	$1,866.58	$2,141.41	$2,416.24	$2,691.07	$2,965.90
Schools and Day Care Centers (Boarding Facilities Excluded)	*per sq ft of building floor area*	$2.99	$3.64	$4.29	$4.93	$5.58
Churches (School & Day Care facilities)	*per sq ft of building*	$2.12	$2.59	$3.05	$3.52	$3.98

ORDINANCE 35.22
EXHIBIT A

Connection Category	Unit Definition	Charge Per Unit Per Fiscal Year (e.g. FY2017 Begins on July 1, 2016 and then every July 1 thereafter)				
Residential & Commercial		**2016**	**2017**	**2018**	**2019**	**2020**
Public Assembly Facilities	*per seat*	$133.30	$152.94	$172.56	$192.21	$211.85
Health Clubs	*per sq ft of building*	$8.97	$10.91	$12.85	$14.79	$16.73
Park or Recreation Site Restrooms	*per water closet*	$5,595.66	$6,421.17	$7,246.69	$8,072.20	$8,897.71
Coin-operated Laundromats	*per washing machine (in addition to other capacity charges that may apply; e.g. mixed-use)*	$4,263.81	$4,809.20	$5,354.60	$5,899.99	$6,445.38
Restaurants - All	*per sq ft of building*	$22.06	$24.05	$26.05	$28.04	$30.03
Eating/Drinking facilities without cooking	*per sq ft of building*	$11.09	$10.97	$10.84	$10.72	$10.59
Car Wash with water recycling	*lump sum*	$5,595.66	$6,421.17	$7,246.69	$8,072.20	$8,897.71
Warehouses	*per square foot of building floor area up to 50,000 sq ft*	$1.02	$1.19	$1.36	$1.52	$1.69
	per square foot of building floor area for that portion of each building above 50,000 sq ft	$0.32	$0.35	$0.37	$0.40	$0.42
Private cafeterias	*per square foot of floor area for food preparation, cooking, food storage, and food service areas (excluding seating areas)*	$22.06	$24.05	$26.05	$28.04	$30.03
Equipment Wash Pad with Interceptor	*lump sum*	$5,595.66	$6,421.17	$7,246.69	$8,072.20	$8,897.71
	per square foot for any additional pad area above 600 sq ft	$17.18	$20.30	$23.42	$26.54	$29.66
Mobile Home/RV Holding Tank disposal station	*lump sum*	$11,170.70	$12,826.88	$14,483.06	$16,139.24	$17,795.42

ORDINANCE 35.22
EXHIBIT A

Connection Category	Unit Definition	Charge Per Unit Per Fiscal Year (e.g. FY2017 Begins on July 1, 2016 and then every July 1 thereafter)				
Residential & Commercial		**2016**	**2017**	**2018**	**2019**	**2020**
Non-Standard Connections	*Capacity charges for users not listed in this table shall be determined by the District Engineer based upon a reasonable estimate of the volume and pollutant loadings of the wastewater to be discharged (however, this shall not be less than the minimum capacity charge)*	Varies	Varies	Varies	Varies	Varies
Industrial						
Volume Component	*per 1,000 gallons of avg. annual discharge volume* (exclusive of domestic wastewater)*	$10.24	$13.92	$17.60	$21.28	$24.96
COD Component	*per 1,000 lbs of avg. annual COD demand loading* (exclusive of COD domestic loading)*	$658.95	$634.65	$610.34	$586.04	$561.73
SS Component	*per 1,000 lbs of avg. annual SS demand loading* (exclusive of SS domestic loading)*	$1,421.64	$1,376.20	$1,330.77	$1,285.33	$1,239.89

**** - first years values based on estimates for each category.***

Union Sanitary District

Sewer Capacity Fee Update

Final 04/05/16

BARTLE WELLS ASSOCIATES
INDEPENDENT PUBLIC FINANCE ADVISORS

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

Alex Handlers, CIPMA
Principal

Catherine Tseng, CIPMA
Senior Financial Analyst

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				

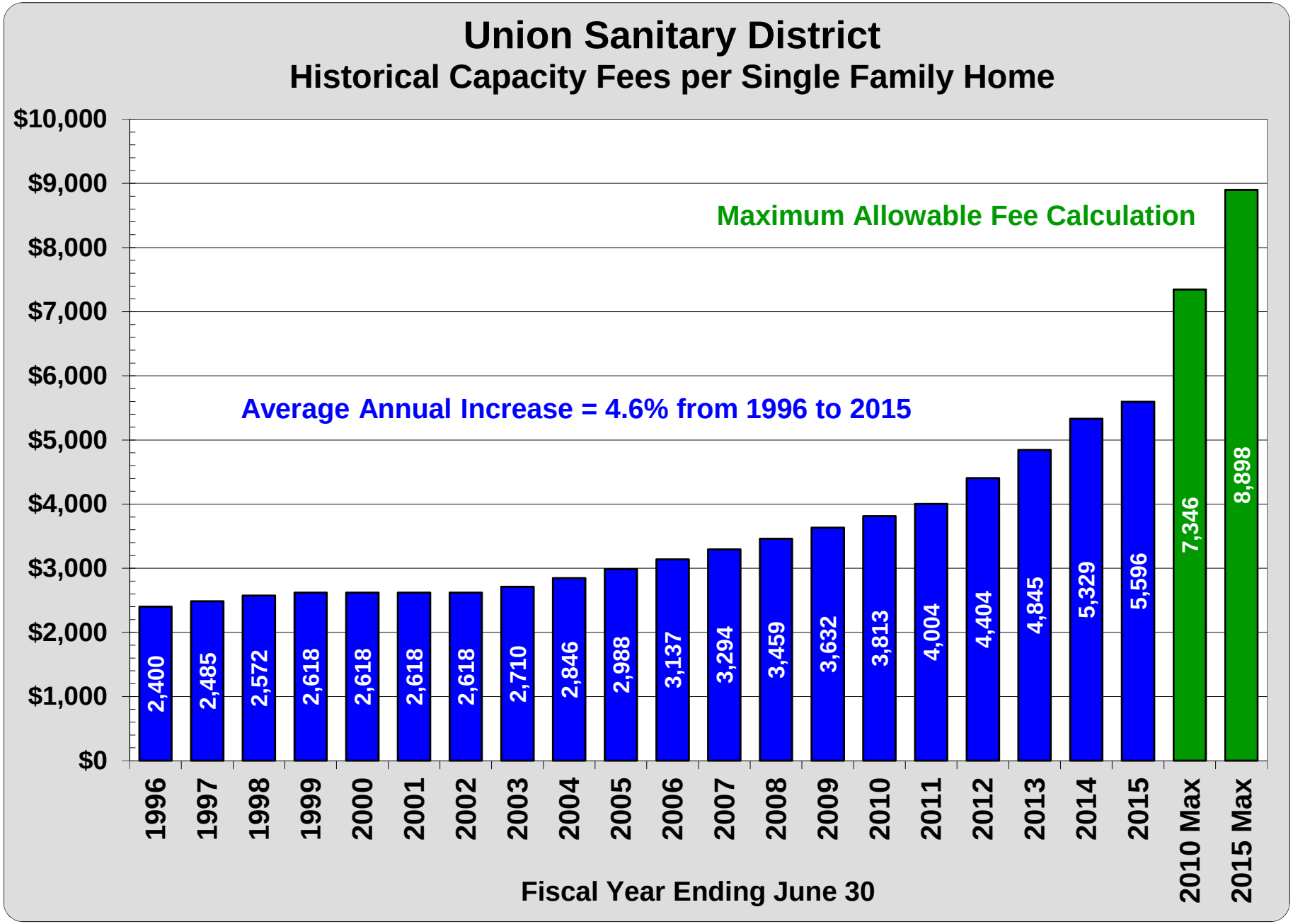
Industrial charges listed must be paid 4 times: once prior to permit issuance and at end of each year for 3 additional years.
If charges total less than $500, all charges shall be paid in one installment prior to permit issuance.

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.

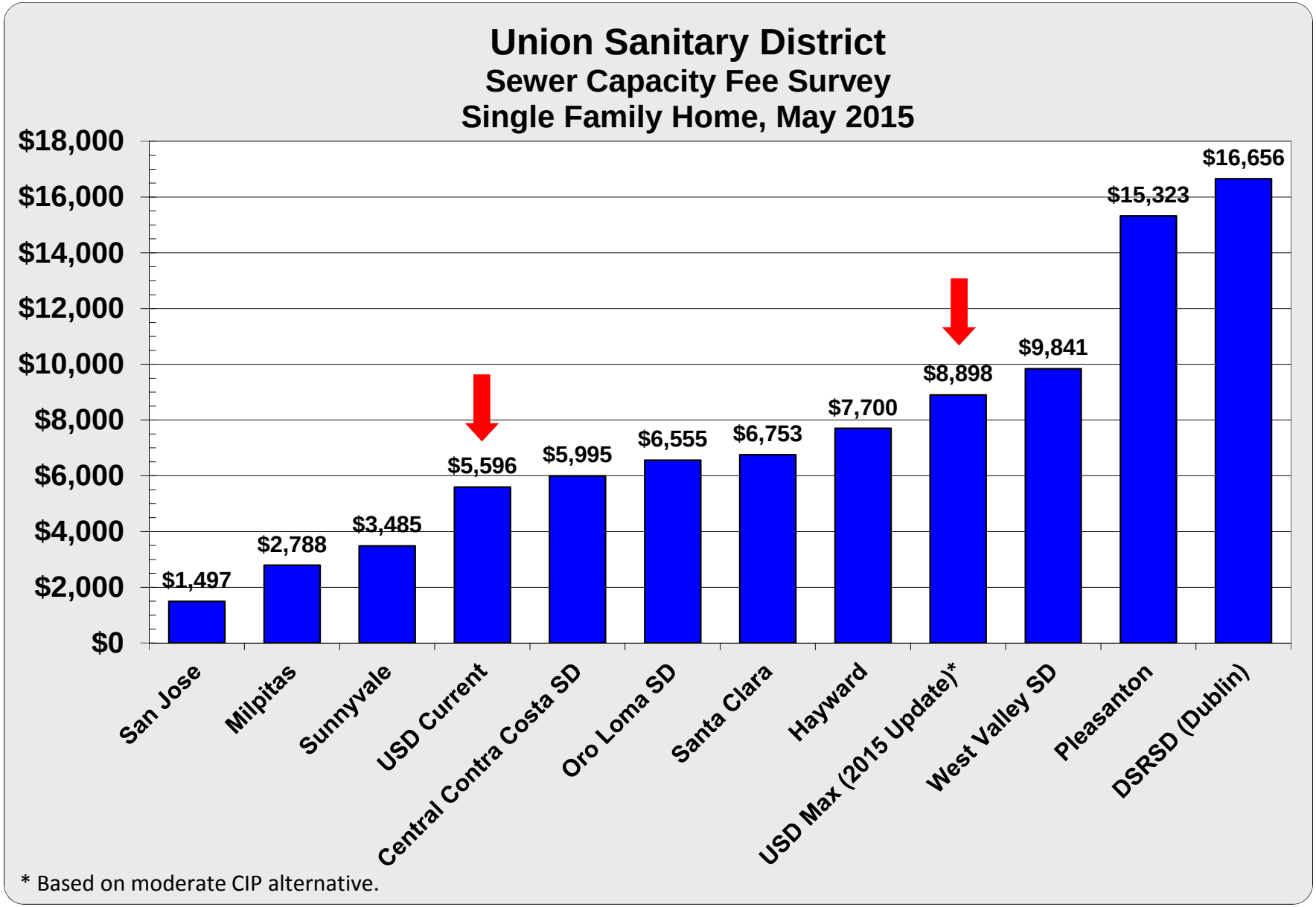
1 Proposed maximum fees are calculated based on the updated unit costs for flow, BOD, and SS applied to the estimated wastewater flow and strength characteristics of each type of connection.

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


Union Sanitary District
Sewer Capacity Fee Survey
Single Family Home, May 2015
$18,000
$16,000
$14,000
$12,000
$10,000
$8,000
$6,000
$4,000
$2,000
$0
$1,497
$2,788
$3,485
$5,596
$5,995
$6,555
$6,753
$7,700
$8,898
$9,841
$15,323
$16,656
San Jose
Milpitas
Sunnyvale
USD Current
Central Contra Costa SD
Oro Loma SD
Santa Clara
Hayward
USD Max (2015 Update)*
West Valley SD
Pleasanton
DSRSD (Dublin)
* Based on moderate CIP alternative.

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 0.128	mg/l 1000 lbs	200 0.128	mg/l 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

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**

Collections cont'd next page

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**

Treatment cont'd next page

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**

Treatment cont'd next page

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	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**

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**

Collections cont'd next page

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
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
March 30, 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	2,500	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

Treatment cont'd next page

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
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**

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
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**

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

Based on Updated Capacity Fees & RMC Development Projections

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
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 0.128	mg/l 1000 lbs	200 0.128	mg/l 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

Based on Updated Capacity Fees & RMC Development Projections

Union Sanitary District

Estimated Capacity Fee Revenues A (Updated Fees) - Aggressive CIP

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

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
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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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
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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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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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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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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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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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
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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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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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
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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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
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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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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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
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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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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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 VAL\	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 - GENERAT	1/1/2013	$46,145	$2,307	$43,838	9,547	$48,233	$45,821
2336	MCC-27 FEEDER BREAKER - RAS PUMPS 1-4 FI	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

Union Sanitary District
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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
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 PANI	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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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
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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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

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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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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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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**		

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160701	4/14/2016	7625	ARTIST WALK FREMONT, LLC	REFUND # 18868	$128,154.00	$128,154.00
160710	4/14/2016	2	CRATUS INC	MISC SPOT REPAIRS PHASE VI	$64,825.96	$64,825.96
160682	4/7/2016	30103912	SYNAGRO WEST LLC	FEBRUARY 2016 BIOSOLIDS DISPOSAL	$55,206.60	$55,206.60
160747	4/14/2016	533620160322	US BANK CORP PAYMENT SYSTEM	MONTHLY CAL-CARD STMT - MAR 2016	$25,320.91	$25,320.91
160736	4/14/2016	21570	RMC WATER AND ENVIRONMENT	ALVARADO BASIN SEWER MASTER PLAN UPDATE	$24,750.00	$24,750.00
160668	4/7/2016	224720160323	PACIFIC GAS AND ELECTRIC	SERV TO 03/22/16 CS TRAINING TRAILER	$29.94	$17,493.83
	4/7/2016	761520160325		SERV TO 03/24/16 NEWARK PS	$17,463.89	
160706	4/14/2016	11206810	BLAISDELL'S	33 DOCUMENT FRAMES	$507.84	$16,334.95
	4/14/2016	11207010		1 PK CERTIFICATES	$9.89	
	4/14/2016	11202570		20 SIT-STAND WORKSTATIONS	$14,294.50	
	4/14/2016	11202571		20 TALL USER EXTENSIONS/2 DUAL MONITOR MOUNTS	$1,513.05	
	4/14/2016	11200520		1 MSG BOOK	$9.67	
160673	4/7/2016	21507	RMC WATER AND ENVIRONMENT	HAYWARD MARSH REHABILITATION OPTIONS	$1,302.00	$15,943.50
	4/7/2016	21497		NPDES PERMIT ASSISTANCE FOR HAYWARD MARSH	$10,425.50	
	4/7/2016	21494		ALVARADO TREATMENT PLANT SITE USE STUDY	$4,216.00	
160638	4/7/2016	147808	CAROLLO ENGINEERS	FREMONT & PASEO PADRE LS IMPROVEMENTS	$12,313.10	$15,526.10
	4/7/2016	147781		COGENERATION PROJECT	$3,213.00	

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160647	4/7/2016	1591153A	DELTA DENTAL SERVICE	MARCH 2016 DENTAL	$1,804.44	$15,443.44
	4/7/2016	1591153C		MARCH 2016 DENTAL	$13,639.00	
160731	4/14/2016	35744	OWEN EQUIPMENT SALES	1 EA REMAN RODDER PUMP	$14,866.02	$14,866.02
160665	4/7/2016	24861143	MOTION INDUSTRIES INC	1 EA MOTION FLS NEW ACCUMULATOR 2016	$2,050.53	$9,330.96
	4/7/2016	24860472		ASTD PARTS & MATERIALS	$337.73	
	4/7/2016	24861212		5 EA FLOWMETERS	$588.63	
	4/7/2016	24860937		CREDIT FOR INCORRECT PART ORDERED LESS RESTOCK FEE	$-197.12	
	4/7/2016	24860973		NORTH EFFLUENT SCREEN CHAIN AND SPROCKETS	$6,551.19	
160683	4/7/2016	735566	UNIVAR USA INC	4,999 GALS SODIUM HYPOCHLORITE	$2,260.60	$9,042.40
	4/7/2016	735855		4,999 GALS SODIUM HYPOCHLORITE	$2,260.60	
	4/7/2016	734891		5,000 GALS SODIUM HYPOCHLORITE	$2,261.05	
	4/7/2016	735180		4,998 GALS SODIUM HYPOCHLORITE	$2,260.15	
160691	4/14/2016	65465	3T EQUIPMENT COMPANY INC	15 PIPEPATCH KIT - WINTER	$7,837.51	$7,837.51
160662	4/7/2016	37432220160401	LINCOLN NATIONAL LIFE INS COMP	LIFE & DISABILITY INSURANCE - APR 2016	$7,631.93	$7,631.93
160745	4/14/2016	736669	UNIVAR USA INC	4,799 GALS SODIUM HYPOCHLORITE	$2,170.15	$6,511.37
	4/14/2016	737027		4,798 GALS SODIUM HYPOCHLORITE	$2,169.71	
	4/14/2016	736353		4,802 GALS SODIUM HYPOCHLORITE	$2,171.51	
160674	4/7/2016	1337	ROCKWELL SOLUTIONS INC	ASTD PARTS & MATERIALS	$5,469.65	$5,469.65
160686	4/7/2016	8299	REEMA VARSHNEY	REFUND # 18849	$4,796.28	$4,796.28

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160707	4/14/2016	610635	BRENNTAG PACIFIC, INC.	2564 LBS SODIUM HYDROXIDE	$1,355.20	$4,065.61
	4/14/2016	610636		5128 LBS SODIUM HYDROXIDE	$2,710.41	
160692	4/14/2016	8078886	ABC IMAGING, INC.	NEWARK BACKYARD SS RELOCATION - PHASE 3	$3,961.71	$3,961.71
160711	4/14/2016	XJWR394R3	DELL MARKETING LP C/O DELL USA	13 NEW BS MONITORS	$3,949.60	$3,949.60
160719	4/14/2016	3J3233	HARRINGTON INDUSTRIAL PLASTICS	2" PVC VALVE	$231.05	$3,497.87
	4/14/2016	3J3234		ASTD PVC PARTS & MATERIALS	$1,377.17	
	4/14/2016	3J3425		2 EA 2" VALVE BALL TUBV S/T PVC EPDM PTFE	$205.98	
	4/14/2016	3J3235		ASTD PVC PARTS & MATERIALS	$557.25	
	4/14/2016	3J3423		ASTD PVC PARTS & MATERIALS	$796.69	
	4/14/2016	3J3424		ASTD PVC PARTS & MATERIALS	$329.73	
160749	4/14/2016	36169	WECO INDUSTRIES LLC	ASTD PARTS & MATERIALS	$830.24	$3,330.58
	4/14/2016	36170		REPAIR OF CAMERA	$2,125.33	
	4/14/2016	36234		REPAIR OF CAMERA	$375.01	
160641	4/7/2016	17613005708	CORIX WATER PRODUCTS INC	15 24" MANHOLE CASTINGS	$3,267.02	$3,267.02
160688	4/7/2016	20160401	VISION SERVICE PLAN - CA	APRIL 2016 VISION STMT	$3,225.60	$3,225.60

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160732	4/14/2016	666720160331	PACIFIC GAS AND ELECTRIC	SERV TO 03/30/16 PASEO PADRE PS	$203.54	$3,216.13
	4/14/2016	013720160405		SERV TO 04/04/16 BOYCE RD PS	$2,477.98	
	4/14/2016	140120160405		SERV TO 04/03/16 IRVINGTON PS	$26.60	
	4/14/2016	892820160331		SERV TO 03/30/16 HAYWARD MARSH	$49.99	
	4/14/2016	898220160331		SERV TO 03/30/16 FREMONT PS	$218.32	
	4/14/2016	380420160331		SERV TO 03/29/16 CHERRY ST PS	$193.87	
	4/14/2016	096020160331		SERV TO 03/30/16 CATHODIC PROJECT	$45.83	
160748	4/14/2016	33433	VALLEY OIL COMPANY	260 GALS XLD 15-40 MOTOR OIL	$2,596.88	$3,105.72
	4/14/2016	33432		1 DRUM SYN-BLEND SAE 5W30 GF-5/SN MOTOR OIL	$508.84	
160657	4/7/2016	28267017006	HERTZ EQUIPMENT RENTAL	MIX TANK RENTAL AND SPILL GUARD PURCHASE	$2,926.00	$2,926.00
160729	4/14/2016	31600192	NBS	SEWER SERVICE CHARGE DATA SERV APR - JUN 2016	$2,862.68	$2,862.68
160723	4/14/2016	2954	KOFF & ASSOCIATES	RECRUITMENT SERVICES - BUS SERVICES COACH	$2,835.57	$2,835.57
160670	4/7/2016	117287	R-2 ENGINEERING INC	1 STATOR C320GQ	$2,770.82	$2,770.82
160713	4/14/2016	8326	FRANK BONETTI PLUMBING, INC.	REFUND # 18857	$2,500.00	$2,500.00
160626	4/7/2016	65419	3T EQUIPMENT COMPANY INC	ASTD PARTS & MATERIALS	$1,877.09	$2,354.09
	4/7/2016	65404		4 SCREW ON PIGTAIL	$477.00	
160702	4/14/2016	7836273	AT&T	SERV: 02/20/16 - 03/19/16	$2,118.42	$2,118.42

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160642	4/7/2016	263637	CURTIS & TOMPKINS, LTD	19 LAB SAMPLE ANALYSIS	$280.00	$2,065.00
	4/7/2016	263501		2 LAB SAMPLE ANALYSIS	$25.00	
	4/7/2016	263566		32 LAB SAMPLE ANALYSIS	$1,740.00	
	4/7/2016	263504		1 LAB SAMPLE ANALYSIS	$20.00	
160652	4/7/2016	20151113	GREEN BUSINESS PROGRAM	GREEN BUS PROG CONTRIB NOV 2015	$2,000.00	$2,000.00
160734	4/14/2016	916002707926	REPUBLIC SERVICES #916	RECYCLE & ROLL OFF - MARCH 2016	$1,830.92	$1,830.92
160687	4/7/2016	9762472074	VERIZON WIRELESS	WIRELESS SERV 02/21/16-03/20/16	$1,807.37	$1,807.37
160726	4/14/2016	54698113	MCMASTER SUPPLY INC	REPLACEMENT FOR ITEMS DAMAGED ON INV 54605486	$95.04	$1,755.63
	4/14/2016	54628470		CREDIT FOR DAMAGED ITEMS ON INV 54605486	$-95.04	
	4/14/2016	54218596		2 EA SCREWDRIVER PRY BARS	$188.68	
	4/14/2016	54605486		ASTD PARTS & MATERIALS	$1,271.39	
	4/14/2016	546054858		25 PACKS SCREWS	$295.56	
160737	4/14/2016	7612657200	RS HUGHES CO INC	ASTD PPE & SAFETY SUPPLIES	$1,742.11	$1,742.11
160685	4/7/2016	33320	VALLEY OIL COMPANY	1 DR SHELL PELLA A & 1 DR ALLIANCE XLD 15/40	$1,724.18	$1,724.18
160741	4/14/2016	3297636498	STAPLES CONTRACT & COMMERCIAL	ASTD OFFICE & BREAKROOM SUPPLIES - INVENTORY	$1,149.27	$1,601.54
	4/14/2016	3297636497		ASTD JANITORIAL SUPPLIES - INVENTORY	$452.27	

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160651	4/7/2016	9035474932	GRAINGER INC	1 EA PRESSURE REGULATOR	$689.71	$1,528.41
	4/7/2016	9036920610		4 EA VIBRATION ISOLATORS	$9.74	
	4/7/2016	9041541740		3 EA BATTERIES	$42.56	
	4/7/2016	9035476663		1 EA CLAMP	$22.28	
	4/7/2016	9035476655		ASTD GLOVES & FACESHIELDS	$764.12	
160709	4/14/2016	5317	CDW GOVERNMENT LLC	1 SWITCH FOR UC PROJECT	$1,047.19	$1,442.44
	4/14/2016	4014		1 SWITCH FOR UC PROJECT	$395.25	
160689	4/7/2016	8044274414	VWR INTERNATIONAL LLC	2 NEODISHER FLA & 1 PK GLASS BEAKERS	$534.42	$1,237.77
	4/7/2016	8044282597		1 SOLUTION COD STAN 800MG/L	$35.72	
	4/7/2016	8044261653		ASTD LAB SUPPLIES	$667.63	
160704	4/14/2016	957689	BAY AREA NEWS GROUP EAST BAY	NEWARK BACKYARD SS RELOCATION - PHASE 3	$1,235.52	$1,235.52
160705	4/14/2016	70781	BELILOVE COMPANY ENGINEERS	2 NEODYNE PRESSURE CUT OFF SWITCH	$1,226.54	$1,226.54
160678	4/7/2016	467.6	SIEGEL & STRAIN ARCHITECTS	FMC BUILDING - NEW	$1,037.05	$1,037.05
160679	4/7/2016	4868173032416	SIERRA SPRING WATER COMPANY	WATER SERVICE 02/26/16 - 03/24/16	$697.85	$1,009.11
	4/7/2016	8122768032416		BOTTLESS COOLERS RENTAL	$311.26	
160743	4/14/2016	6950	SUPPORT PRODUCT SERVICES INC	EMISSIONS ANALYZER BI-ANNUAL SERVICE	$1,005.21	$1,005.21
160700	4/14/2016	543114	A-PRO PEST CONTROL INC	MAR PEST CONTROL	$1,005.00	$1,005.00
160742	4/14/2016	8294	STREAMLINE PLUMBING & DRAIN	REFUND # 18855	$500.00	$1,000.00
	4/14/2016	8274		REFUND # 18856	$500.00	

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160634	4/7/2016	606884	AUTOMATION PRODUCTS GROUP	1 PRESSURE LEVEL TRANSMITTER	$998.41	$998.41
160728	4/14/2016	20160331	NAPA AUTO PARTS	MONTHLY AUTO PARTS STMT - MAR 2016	$950.10	$979.02
	4/14/2016	672635		1 EA NAPA GOLD AIR FILTER	$28.92	
160632	4/7/2016	7807856	AT&T	SERV: 02/13/16 - 03/12/16	$761.06	$971.19
	4/7/2016	7817027		SERV: 02/13/16 - 03/12/16	$99.09	
	4/7/2016	7820993		SERV: 02/13/16 - 03/12/16	$43.16	
	4/7/2016	7821122		SERV: 02/13/16 - 03/12/16	$66.38	
	4/7/2016	7826153		SERV: 02/16/16 - 03/15/16	$1.50	
160643	4/7/2016	20160331.1	CWEA-NRTC	CONFERENCE REG: R. LEBON	$969.00	$969.00
160663	4/7/2016	53567429	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	$506.31	$922.80
	4/7/2016	53529746		ASTD TOOLS	$132.58	
	4/7/2016	53901646		1 EA BLUNT-POINT LIGHTWEIGHT SCISSORS	$57.92	
	4/7/2016	54024712		ASTD PARTS & MATERIALS	$66.37	
	4/7/2016	53901647		4 FEET FOAM SHEETING	$40.23	
	4/7/2016	53936934		IPS & NPS TOOLS	$119.39	
160739	4/14/2016	4671	SKIL-PAINTING INC	SANDBLAST LARGE ELECTRIC MOTOR COVER	$600.00	$850.00
	4/14/2016	4678		SANDBLAST LARGE PUMP EXTERIOR	$250.00	
160675	4/7/2016	1710374001	SAN LEANDRO ELECTRIC SUPPLY	ASTD PARTS & MATERIALS	$764.34	$847.72
	4/7/2016	1710374002		ASTD PARTS & MATERIALS	$83.38	

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160694	4/14/2016	9049536655	AIRGAS NCN	ASTD PARTS & MATERIALS	$439.90	$829.00
	4/14/2016	9049536656		ASTD PARTS & MATERIALS	$389.10	
160690	4/7/2016	36171	WECO INDUSTRIES LLC	1 SKID CAGE & 1 JET FOAM NOZZLE	$818.73	$818.73
160644	4/7/2016	20160331.2	CWEA-NRTC	CONFERENCE REG: S. BULLIS	$805.00	$805.00
160669	4/7/2016	11035G	R & S ERECTION OF S ALAMEDA	ROLL UP STAIRS CABLE REPLACEMENT	$794.90	$794.90
160696	4/14/2016	5136251	ALL INDUSTRIAL ELECTRIC SUPPLY	PRIMARY CLAIRIFIER LED BALLAST REPLACEMENT	$780.86	$780.86
160631	4/7/2016	8017	AMERICAN DISCOUNT SECURITY	03/01/16 - 03/15/16 GUARD AT DISTRICT GATE	$759.00	$759.00
160698	4/14/2016	6032461	ALPHA ANALYTICAL LABORATORIES	16 LAB SAMPLE ANALYSIS	$360.00	$705.00
	4/14/2016	6032460		22 LAB SAMPLE ANALYSIS	$345.00	
160703	4/14/2016	20160413.1	JEFFREY BARTON	EXP REIMB: GRADE V WASTEWATER TPO CERTIFICATION	$340.00	$702.77
	4/14/2016	20160413		EXP REIMB: MEALS FMC/TPO ONSITE MEETING	$362.77	
160633	4/7/2016	87896581203252016	AT&T	SERV: 02/18/16 - 03/17/16	$677.25	$677.25
160628	4/7/2016	9049399945	AIRGAS NCN	ASTD PARTS & MATERIALS	$226.99	$648.20
	4/7/2016	9049447397		2 CYL WELDING GAS	$421.21	
160659	4/7/2016	3000224675	IDEXX DISTRIBUTION INC	ASTD SAMPLING SUPPLIES	$641.33	$641.33
160718	4/14/2016	1661986	HANSON AGGREGATES INC	2.27 TONS 1/2 MED TYPE A AC-R	$177.24	$598.71
	4/14/2016	1660572		5.55 TONS 1/2 MED TYPE A AC-R	$421.47	
160735	4/14/2016	292742	RKI INSTRUMENTS INC	EAGLE CALIBRATION SERVICE LEVEL 1	$594.99	$594.99
160733	4/14/2016	31051C	R & S ERECTION OF S ALAMEDA	BUILDING 91 TREATMENT PIT COVER DOOR	$560.00	$560.00

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160645	4/7/2016	20160331	CWEA-NRTC	MEMBERSHIP & CONF REG - S. NOVAK	$545.00	$545.00
160660	4/7/2016	80136030	KANO LABORATORIES INC	4 CASES LUBRICANT	$520.03	$520.03
160649	4/7/2016	1083777050	G&K SERVICES CO	UNIFORM LAUNDERING & RUGS	$235.18	$506.08
	4/7/2016	1083777051		UNIFORM LAUNDERING	$237.20	
	4/7/2016	1083777052		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	$33.70	
160664	4/7/2016	50015	MISSION IRRIGATION SUPPLY INC	ASTD PARTS & MATERIALS	$501.86	$501.86
160639	4/7/2016	8060	LI CHIN	REFUND # 18841	$500.00	$500.00
160693	4/14/2016	8324	ABSOLUTE PRO PLUMBING	REFUND # 18858	$500.00	$500.00
160712	4/14/2016	8120	KEQIANG DING	REFUND # 18854	$500.00	$500.00
160730	4/14/2016	8327	ONE DAY COMPLETE REPIPE	REFUND # 18859	$500.00	$500.00
160727	4/14/2016	957170	MOBILE MODULAR MANAGEMENT CORP	FMC TRAILER RENTAL - APR 2016	$493.90	$493.90
160714	4/14/2016	1083778996	G&K SERVICES CO	UNIFORM LAUNDERING & RUGS	$231.58	$491.68
	4/14/2016	1083778997		UNIFORM LAUNDERING	$226.40	
	4/14/2016	1083778998		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	$33.70	
160635	4/7/2016	88164	BARNETT MEDICAL SERVICES LLC	80 LBS PHARMACEUTICAL WASTE REMOVAL	$85.00	$454.00
	4/7/2016	88617		40 LBS PHARMACEUTICAL WASTE REMOVAL	$85.00	
	4/7/2016	88919		TRIP CHARGE	$35.00	
	4/7/2016	87973		80 LBS PHARMACEUTICAL WASTE REMOVAL	$164.00	
	4/7/2016	88237		60 LBS PHARMACEUTICAL WASTE REMOVAL	$85.00	

UNION SANITARY DISTRICT
CHECK REGISTER
04/02/2016-04/15/2016

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
160717	4/14/2016	9851030	HACH COMPANY	4 EA SALT BRIDGE PH SENSORS	$402.18	$402.18
160720	4/14/2016	602008885	HILLYARD/SAN FRANCISCO	JANITORIAL SUPPLIES	$402.14	$402.14
160654	4/7/2016	1660079	HANSON AGGREGATES INC	5.27 TONS 1/2 MED TYPE A AC-R	$400.62	$400.62
160653	4/7/2016	1160225	GROENIGER AND COMPANY	ASTD PARTS & MATERIALS	$284.74	$393.29
	4/7/2016	1158072		1 EA FEBCO 825Y RP LF BFP	$307.80	
	4/7/2016	97075		CREDIT FOR 2 EA NP E BRS 200#	$-199.25	
160646	4/7/2016	201603.10	DALE HARDWARE INC	03/16 - ASTD PARTS & MATERIALS	$371.33	$371.33
160637	4/7/2016	11190750	BLAISDELL'S	1 TONER	$200.17	$301.30
	4/7/2016	11190800		1 BX STAPLES	$12.09	
	4/7/2016	11191870		ASTD OFFICE SUPPLIES	$80.26	
	4/7/2016	11191871		2 PK BINDER CLIPS	$8.78	
160681	4/7/2016	20160401	SWRCB - CERTIFICATIONS	GRADE III CERT RENEW-BORBECK	$300.00	$300.00
160744	4/14/2016	20160414	SWRCB - CERTIFICATIONS	GRADE III CERT RENEW - HUGHES	$300.00	$300.00
160667	4/7/2016	11333761	CITY OF NEWARK	ENCROACHMENT PERMIT & INSPECTION FEE	$285.00	$285.00
160725	4/14/2016	128563	MAZZEI INJECTOR	6 EA 0484 PP MAZZEI INJECTOR	$265.87	$265.87
160658	4/7/2016	528006	HULBERT LUMBER SUPPLY	ASTD LUMBER SUPPLIES	$63.06	$253.07
	4/7/2016	527765		ASTD LUMBER SUPPLIES	$190.01	
160655	4/7/2016	21932	HAYWARD PIPE AND SUPPLY	1 EA SWING CHECK VALVE	$251.97	$251.97
160721	4/14/2016	987377	INTERNATIONAL PAINT LLC	ASTD PAINTING SUPPLIES	$245.48	$245.48

UNION SANITARY DISTRICT
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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
160740	4/14/2016	20160401	SPOK INC	APRIL 2016 PAGER SERVICE	$239.82	$239.82
160636	4/7/2016	335957	BAY AREA BARRICADE SERVICE INC	MARKING PAINT	$236.51	$236.51
160697	4/14/2016	13782	ALLIED FLUID PRODUCTS CORP	1 4"X8" KANALINE SR PVD S/D HOSE	$224.55	$224.55
160629	4/7/2016	4071037120160321	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 03/18/16-BENSON ROAD	$187.84	$187.84
160708	4/14/2016	3101	CAL SAN RISK MNGT AUTH	CLAIM: WHITMAN FILE #1896332	$185.10	$185.10
160671	4/7/2016	8200000009410	RED WING SHOE STORE	SAFETY SHOES - SIMMONS	$181.49	$181.49
160716	4/14/2016	9042288523	GRAINGER INC	2 PACKS BUTT SPLICE CONNECTORS	$57.74	$164.76
	4/14/2016	9045113637		1 EA PORTABLE OUTLET BOX	$107.02	
160630	4/7/2016	5135786	ALL INDUSTRIAL ELECTRIC SUPPLY	ASTD PARTS & MATERIALS	$153.25	$153.25
160648	4/7/2016	8683	EAST BAY MUNI UTILITY DISTRICT	3 LAB SAMPLE ANALYSIS	$143.00	$143.00
160724	4/14/2016	20160412	SCOTT MARTIN	EXP REIMB: LUNCH FOR CREW CLEANING WET WELLS AT IPS	$141.63	$141.63
160680	4/7/2016	20160404	ROBERT SIMONICH	EXP REIMB: LUNCH WET WELL CLEANING CREW	$138.33	$138.33
160699	4/14/2016	265509	ANALYSTS, INC.	100 OIL SAMPLE KITS	$136.74	$136.74
160666	4/7/2016	20160330	NCCIPMA	REGIS FEE: WORKPLACE INVESTIGATION, KING & SIO-KWOK	$118.00	$118.00
160677	4/7/2016	899138541	SHARP BUSINESS SYSTEMS	MTHLY MAINTENANCE BASED ON USE	$115.88	$115.88
160672	4/7/2016	79640	REMOTE SATELLITE SYSTEMS INT'L	IRIDIUM SVC FEE APRIL 2016	$97.90	$97.90
160661	4/7/2016	20160405	CONGNA LI	EXP REIMB: REFERENCE BOOK - NITROGEN REMOVAL	$97.00	$97.00
160676	4/7/2016	20160407	JAMES SCHOFIELD	EXP REIMB: 3 GIFT CARDS SAFETY INCENTIVE PROGRAM	$86.85	$86.85
160738	4/14/2016	20160408	KRISTINA SILVA	PROJ 437 PRE-CONSTRUCTION MEETING BREAKFAST	$85.49	$85.49

UNION SANITARY DISTRICT
CHECK REGISTER
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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
160627	4/7/2016	64899	AIR & TOOL ENGINEERING COMPANY	ASTD PARTS & MATERIALS	$80.17	$80.17
160650	4/7/2016	80390	GORILLA METALS	ASTD METAL, STEEL, STAINLESS, AND ALUMINUM	$69.07	$69.07
160640	4/7/2016	3083	CONSTRUCTION ZONE LLC, THE	ASTD CLASS 3 SAFETY CLOTHING	$67.98	$67.98
160722	4/14/2016	20160411	KATHLEEN KING	EXP REIMB: MILEAGE FOR SEMINAR & SNACKS FOR QAI PANEL	$53.74	$53.74
160695	4/14/2016	20160407	ALAMEDA COUNTY TREASURER	3RD SLUDGE DEGRITTER SYSTEM	$50.00	$50.00
160746	4/14/2016	9853126.0	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 03/19/16	$48.83	$48.83
160684	4/7/2016	9853116.0	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 03/12/16	$46.53	$46.53
160715	4/14/2016	80452	GORILLA METALS	ASTD METAL, STEEL, STAINLESS, AND ALUMINUM	$26.36	$26.36
160656	4/7/2016	562209	HAYWARD WATER SYSTEM	WATER SERV 11/17/14 - 03/14/16	$25.54	$25.54

Invoices:

Credit Memos :	3	-491.41
$0 - $1,000 :	144	42,601.02
$1,000 - $10,000 :	49	126,698.58
$10,000 - $100,000 :	10	253,105.48
Over $100,000 :	1	128,154.00
Total:	207	550,067.67

Checks:

$0 - $1,000 :	73	30,341.04
$1,000 - $10,000 :	40	125,861.32
$10,000 - $100,000 :	10	265,711.31
Over $100,000 :	1	128,154.00
Total:	124	550,067.67

DATE: April 11, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Pamela Arends-King, Business Services Manager/CFO
Roslyn Fuller, Purchasing Agent
Nina Narvaez, Administrative Specialist I

SUBJECT: Agenda Item No. 12b. April 25, 2016
Information item: **CAL-CARD QUARTERLY MERCHANT ACTIVITY REPORT**

Recommendation

Information Only

Information

The attached CAL-Card Merchant Spend Analysis details the CAL-Card activity for the third quarter of FY 2016. This covers transactions for the CAL-Card billing period January 25, 2016 through March 22, 2016. During this quarter, we had 231 transactions totaling $67,667.84.

Merchant Spend Analysis - Detail

MCCG	Merchant Category Code Group Description	MCC	Merchant Name	Merchant City	Merchant State/ Province	Debit Amount	Nbr of Debit Trans	Average Spend per Debit Trans	Credit Amount	Nbr of Credit Trans	Total Spend	% of Total Spend	Nbr of Trans	Total Sales Tax
47963	BUSINESS EXPENS	8398	ISA	919-549-8411	NC	$ 5,470.00	3	$ 1,823.33	$ 0.00	0	$ 5,470.00	8.19%	3	$ 0.00
137510	Rialto	9399	CITY OF FREMONT DEV SVCS	FREMONT	CA	5,400.00	4	1,350.00	0.00	0	5,400.00	8.08%	4	0.00
47971	OFFICE SUPPLIES	5942	AMAZON MKTPLACE PMTS	AMZN.COM/BILL	WA	3,666.35	23	159.41	0.00	0	3,666.35	5.49%	23	97.63
47972	OTHER	5999	IN *FOUNDATION FITNESS LL	503-5059538	OR	3,461.44	1	3,461.44	0.00	0	3,461.44	5.18%	1	0.00
47962	BUILDING SERVIC	1799	IN *VAPOR TECH	409-3160173	TX	3,085.00	2	1,542.50	0.00	0	3,085.00	4.62%	2	0.00
47979	WHOLESALE TRADE	5311	SEARS.COM 9300	800-349-4358	IA	2,841.17	2	1,420.59	0.00	0	2,841.17	4.25%	2	119.99
47963	BUSINESS EXPENS	8398	CA WATER ENV ASSN	510-382-7800	CA	2,768.00	13	212.92	0.00	0	2,768.00	4.14%	13	0.00
47963	BUSINESS EXPENS	8999	IN *KEN GRADY COMPANY, IN	415-8835924	CA	1,719.04	2	859.52	0.00	0	1,719.04	2.57%	2	153.00
141822	Hardware Supply	5200	THE HOME DEPOT 635	UNION CITY	CA	1,418.67	1	1,418.67	0.00	0	1,418.67	2.12%	1	128.97
47979	WHOLESALE TRADE	5046	TECO PNEUMATIC, INC.	925-4268500	CA	1,332.38	1	1,332.38	0.00	0	1,332.38	1.99%	1	118.36
47963	BUSINESS EXPENS	8299	UWEX REGISTRATION	608-2622451	WI	1,245.00	1	1,245.00	0.00	0	1,245.00	1.86%	1	0.00
47979	WHOLESALE TRADE	5099	R.F. MACDONALD	510-784-0110	CA	1,237.27	1	1,237.27	0.00	0	1,237.27	1.85%	1	105.80
47963	BUSINESS EXPENS	8299	IN *MITCHES CERTIFIED CLA	916-7837176	CA	1,000.00	1	1,000.00	0.00	0	1,000.00	1.50%	1	0.00
47966	MAIL/TELEPHON E	5964	CDW GOVERNMENT	800-800-4239	IL	891.33	4	222.83	0.00	0	891.33	1.33%	4	79.86
217413	Prohibited Tran	8699	WEF WYTHE	800-6660206	VA	891.00	3	297.00	0.00	0	891.00	1.33%	3	0.00
47979	WHOLESALE TRADE	5045	DMI* DELL BUS ONLINE	800-456-3355	TX	886.91	1	886.91	0.00	0	886.91	1.33%	1	78.93
47971	OFFICE SUPPLIES	5942	AMAZON.COM AMZN.COM/BILL	AMZN.COM/BILL	WA	873.69	8	109.21	0.00	0	873.69	1.31%	8	79.46
47979	WHOLESALE	5099	CUMMINS PACIFIC	SAN LEANDRO	CA	855.68	1	855.68	0.00	0	855.68	1.28%	1	0.00

Merchant Spend Analysis - Detail

MCCG	Merchant Category Code Group Description	MCC	Merchant Name	Merchant City	Merchant State/ Province	Debit Amount	Nbr of Debit Trans	Average Spend per Debit Trans	Credit Amount	Nbr of Credit Trans	Total Spend	% of Total Spend	Nbr of Trans	Total Sales Tax
47979	TRADE		#27											
47972	OTHER	5999	BOB S FOAM FACTORY INC	510-657-2420	CA	781.11	2	390.56	0.00	0	781.11	1.17%	2	0.00
47979	WHOLESALE TRADE	5045	DMI* DELL K-12/GOVT	800-981-3355	TX	763.71	1	763.71	0.00	0	763.71	1.14%	1	67.73
137510	Rialto	9399	UNION CITY CITY HALL	510-675-5381	CA	750.00	1	750.00	0.00	0	750.00	1.12%	1	0.00
212656	SCCLD AUTO	7549	SAN LEANDRO TOWING	510-4834047	CA	750.00	1	750.00	0.00	0	750.00	1.12%	1	0.00
252142	MCC7392	7392	IN *TURNER RISK CONSULTIN	510-3646010	CA	750.00	2	375.00	0.00	0	750.00	1.12%	2	0.00
47979	WHOLESALE TRADE	5045	BPH PUMP & EQUIPMENT	815-578-0100	IL	745.76	1	745.76	0.00	0	745.76	1.12%	1	0.00
47979	WHOLESALE TRADE	5085	CALIFORNIA SERVICE TOOL	510-782-1000	CA	696.64	1	696.64	0.00	0	696.64	1.04%	1	63.33
141822	Hardware Supply	5200	THE HOME DEPOT #6964	NEWARK	CA	694.12	2	347.06	0.00	0	694.12	1.04%	2	60.22
47978	VEHICLE EXPENSE	7531	GOLDEN GATE TRUCK CENTER	OAKLAND	CA	680.72	2	340.36	0.00	0	680.72	1.02%	2	11.16
47979	WHOLESALE TRADE	5065	SCHNEIDERELECT RIC IT C	401-398-8450N	RI	639.38	2	319.69	0.00	0	639.38	0.96%	2	0.00
47970	OFFICE SERVICES	7399	PUBLIC RISK MANAGEMENT	703-5287701	VA	570.00	1	570.00	0.00	0	570.00	0.85%	1	0.00
47978	VEHICLE EXPENSE	5533	CARID.COM	800-505-3274	NJ	559.53	1	559.53	0.00	0	559.53	0.84%	1	0.00
47963	BUSINESS EXPENS	8398	CALIFORNIA ASSOC OF SAN	916-4460388	CA	525.00	1	525.00	0.00	0	525.00	0.79%	1	0.00
47963	BUSINESS EXPENS	8398	CAPIO	530-924-5444	CA	507.50	2	253.75	0.00	0	507.50	0.76%	2	0.00
47963	BUSINESS EXPENS	8299	DKF SOLUTIONS GROUP LL	707-6745960	CA	500.00	2	250.00	0.00	0	500.00	0.75%	2	0.00
137510	Rialto	9399	CITY OF FOSTER CITY EMID	650-286-3265	CA	500.00	1	500.00	0.00	0	500.00	0.75%	1	0.00
47979	WHOLESALE	5085	PAYPAL	402-935-7733	OH	498.95	1	498.95	0.00	0	498.95	0.75%	1	0.00

Merchant Spend Analysis - Detail

MCCG	Merchant Category Code Group Description	MCC	Merchant Name	Merchant City	Merchant State/ Province	Debit Amount	Nbr of Debit Trans	Average Spend per Debit Trans	Credit Amount	Nbr of Credit Trans	Total Spend	% of Total Spend	Nbr of Trans	Total Sales Tax
47979	TRADE		*PFMACTEK											
47970	OFFICE SERVICES	7399	WIN 911 SOFTWARE	512-3261011	TX	495.00	1	495.00	0.00	0	495.00	0.74%	1	0.00
47971	OFFICE SUPPLIES	5942	AMAZON.COM	AMZN.COM/BILL	WA	485.85	8	60.73	0.00	0	485.85	0.73%	8	44.18
217413	Prohibited Tran	8699	CALIFORNIA ASSOCIATION	530-755-4922	CA	458.00	3	152.67	0.00	0	458.00	0.69%	3	0.00
289779	COMPUTER	4816	DNH*GODADDY.CO M	480-5058855	AZ	447.29	3	149.10	0.00	0	447.29	0.67%	3	0.00
47963	BUSINESS EXPENS	8398	NIGP	800-367-6447	VA	430.00	1	430.00	0.00	0	430.00	0.64%	1	0.00
217413	Prohibited Tran	8699	GOVERNMENT FINANCE	312-977-9700	IL	430.00	2	215.00	0.00	0	430.00	0.64%	2	0.00
47972	OTHER	5999	IN *WHAT'S HAPPENING, TRI	510-4941999	CA	415.00	1	415.00	0.00	0	415.00	0.62%	1	0.00
47979	WHOLESALE TRADE	5085	HACH COMPANY	9706631377	CO	402.70	1	402.70	0.00	0	402.70	0.60%	1	0.00
47963	BUSINESS EXPENS	8299	CA-NV SECTION, AWWA	909-481-7200	CA	400.00	2	200.00	0.00	0	400.00	0.60%	2	0.00
47970	OFFICE SERVICES	8911	BROWN AND CALDWELL	925-2102277	CO	400.00	2	200.00	0.00	0	400.00	0.60%	2	0.00
289498	IT SOFTWARE	5734	BAMBOO SOLUTIONS	877-226-2662	VA	396.00	1	396.00	0.00	0	396.00	0.59%	1	0.00
150085	MCC5969	5969	AMERICAN PUBLIC WORKS	8164726100	MO	395.00	1	395.00	0.00	0	395.00	0.59%	1	0.00
289498	IT SOFTWARE	5734	SYSTEMTOOLS SOFTWARE INCO	830-779-2349	TX	378.00	1	378.00	0.00	0	378.00	0.57%	1	0.00
47970	OFFICE SERVICES	7399	COMTEL SYSTEMS TECHNOLOGY	408-5435600	CA	375.00	1	375.00	0.00	0	375.00	0.56%	1	0.00
47963	BUSINESS EXPENS	8398	AWWA.ORG	303-347-6197	CO	349.00	1	349.00	0.00	0	349.00	0.52%	1	0.00
47978	VEHICLE EXPENSE	5533	PAYPAL *CHEROKEETRU	402-935-7733	CA	335.08	1	335.08	0.00	0	335.08	0.50%	1	0.00
47961	AUTO/RV	5511	FREMONT TOYOTA	FREMONT	CA	331.00	1	331.00	0.00	0	331.00	0.50%	1	0.00

Merchant Spend Analysis - Detail

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47961	DEALERS													
47963	BUSINESS EXPENS	8299	OWPSACSTATE	916-278-6142	CA	314.85	1	314.85	0.00	0	314.85	0.47%	1	0.00
212656	SCCLD AUTO	7549	ARROWHEAD TOWING INC ANTI	925-7576539	CA	306.08	1	306.08	0.00	0	306.08	0.46%	1	0.00
47963	BUSINESS EXPENS	8299	FREDPRYOR CAREERTRACK	800-5563012	KS	298.00	2	149.00	0.00	0	298.00	0.45%	2	0.00
47970	OFFICE SERVICES	7399	BOXWOOD TECHNOLOGY	888-4918833	MD	295.00	1	295.00	0.00	0	295.00	0.44%	1	0.00
47962	BUILDING SERVIC	1799	CLASSIC GRAPHICS	510-744-2190	CA	290.85	1	290.85	0.00	0	290.85	0.44%	1	0.00
289498	IT SOFTWARE	5734	AVANGATE*VIRTOS OFTWARE	888-2471614	CA	274.50	1	274.50	0.00	0	274.50	0.41%	1	0.00
47978	VEHICLE EXPENSE	5533	SAFELITE ONLINE PAYMENTS	614-210-9080	OH	271.35	1	271.35	0.00	0	271.35	0.41%	1	0.00
47960	AIRLINE	3066	SOUTHWES 5262177603275	800-435-9792	TX	267.96	1	267.96	0.00	0	267.96	0.40%	1	0.00
47979	WHOLESALE TRADE	5044	PTM DOCUMENT SYSTEMS INC	707-5766304	CA	254.29	1	254.29	0.00	0	254.29	0.38%	1	19.95
47963	BUSINESS EXPENS	8999	IN *AIM TRAINING SOLUTION	800-3053855	CA	250.00	1	250.00	0.00	0	250.00	0.37%	1	0.00
47979	WHOLESALE TRADE	5085	M&M CONTROL SERVICE	847-356-0566	IL	234.52	1	234.52	0.00	0	234.52	0.35%	1	0.00
47979	WHOLESALE TRADE	5065	TELOG INSTRUMENTS INC	800-554-3363	NY	226.01	1	226.01	0.00	0	226.01	0.34%	1	0.00
47963	BUSINESS EXPENS	8299	LORMAN EDUCATION SERVICE	715-833-3940	WI	219.00	1	219.00	0.00	0	219.00	0.33%	1	0.00
47979	WHOLESALE TRADE	5065	SCHNEIDERELECT RIC IT C	401-398-8450N	RI	216.99	1	216.99	0.00	0	216.99	0.32%	1	0.00
289498	IT SOFTWARE	5734	SOURCEGEAR DBA ZUMERO	ZUMERO.COM	IL	210.00	1	210.00	0.00	0	210.00	0.31%	1	0.00
47972	OTHER	5999	THOMAS AND ASSOCIATES IN	415-884-4501	CA	208.03	1	208.03	0.00	0	208.03	0.31%	1	17.55

Merchant Spend Analysis - Detail

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141822	Hardware Supply	5200	LOWES #01132*	UNION CITY	CA	$ 204.45	3	$ 68.15	$ 0.00	0	$ 204.45	0.31%	3	$ 18.59
47972	OTHER	5999	UNION HOUSE	651-462-7710	MN	202.35	1	202.35	0.00	0	202.35	0.30%	1	0.00
47970	OFFICE SERVICES	5968	WEB*NETWORKSOLUTIONS	888-642-9675	FL	197.94	2	98.97	0.00	0	197.94	0.30%	2	0.00
47979	WHOLESALE TRADE	5169	WESTECHRIGG	800-442-7454	OR	194.29	2	97.15	0.00	0	194.29	0.29%	2	0.00
47963	BUSINESS EXPENS	8299	SOCIETY FOR HUMAN RESOURC	703-5483440	VA	190.00	1	190.00	0.00	0	190.00	0.28%	1	0.00
47979	WHOLESALE TRADE	5399	TINKER & RASOR	9098900700	CA	182.39	1	182.39	0.00	0	182.39	0.27%	1	0.00
138753	SEMINAR/CONF.	8641	FREMONT CHAMBER OF COMMER	510-7952244	CA	180.00	1	180.00	0.00	0	180.00	0.27%	1	0.00
47979	WHOLESALE TRADE	5045	NEOGOV	310-4266304	CA	175.00	1	175.00	0.00	0	175.00	0.26%	1	0.00
47979	WHOLESALE TRADE	5039	OWEN EQUIPMENT COMPANY	503-2559055	OR	174.12	1	174.12	0.00	0	174.12	0.26%	1	14.16
47979	WHOLESALE TRADE	5251	ALL INDUSTRIAL ELECTRIC S	BURLINGAME	CA	173.73	1	173.73	0.00	0	173.73	0.26%	1	13.93
47979	WHOLESALE TRADE	5399	SIGN A RAMA	UNION CITY	CA	165.00	1	165.00	0.00	0	165.00	0.25%	1	0.00
47963	BUSINESS EXPENS	8299	PESTICIDE APPLICATORS PRO	831-442-3536	CA	160.00	1	160.00	0.00	0	160.00	0.24%	1	0.00
47979	WHOLESALE TRADE	5251	FASTENAL COMPANY01	HAYWARD	CA	153.71	1	153.71	0.00	0	153.71	0.23%	1	13.97
47970	OFFICE SERVICES	7399	SWAGELOK NORTHERN CALIFOR	408-7343145	CA	151.83	1	151.83	0.00	0	151.83	0.23%	1	0.00
47963	BUSINESS EXPENS	8999	BIDSYNC	801-7659245	UT	150.00	1	150.00	0.00	0	150.00	0.22%	1	0.00
47963	BUSINESS EXPENS	8299	SKILLPATH NATIONAL	913-3623900	KS	149.00	1	149.00	0.00	0	149.00	0.22%	1	0.00
47979	WHOLESALE TRADE	5251	SUPERWATER.COM	561-241-0260	FL	140.85	1	140.85	0.00	0	140.85	0.21%	1	0.00

Merchant Spend Analysis - Detail

MCCG	Merchant Category Code Group Description	MCC	Merchant Name	Merchant City	Merchant State/ Province	Debit Amount	Nbr of Debit Trans	Average Spend per Debit Trans	Credit Amount	Nbr of Credit Trans	Total Spend	% of Total Spend	Nbr of Trans	Total Sales Tax
47960	AIRLINE	3066	SOUTHWES 5262174142938	800-435-9792	TX	$ 135.96	1	$ 135.96	$ 0.00	0	$ 135.96	0.20%	1	$ 0.00
47963	BUSINESS EXPENS	8299	PESTICIDE APPLICATORS	831-442-3536	CA	135.00	2	67.50	0.00	0	135.00	0.20%	2	0.00
47979	WHOLESALE TRADE	5045	INTELLIGEN, VIEW GUARD	877-484-3948	FL	131.52	1	131.52	0.00	0	131.52	0.20%	1	0.00
47963	BUSINESS EXPENS	8398	NACE INTERNATIONAL	800-797-6223	TX	130.00	1	130.00	0.00	0	130.00	0.19%	1	0.00
141822	Hardware Supply	5200	LOWES #00907*	866-483-7521	NC	129.69	1	129.69	0.00	0	129.69	0.19%	1	11.79
47961	AUTO/RV DEALERS	5511	KTEC E-STORE	217-592-5312	IL	128.88	1	128.88	0.00	0	128.88	0.19%	1	0.00
47960	AIRLINE	3066	SOUTHWES 5262178318607	800-435-9792	TX	128.46	1	128.46	0.00	0	128.46	0.19%	1	0.00
47979	WHOLESALE TRADE	5046	BOBCAT OF FREMONT	510-8974123	CA	123.36	1	123.36	0.00	0	123.36	0.18%	1	9.00
212656	SCCLD AUTO	5532	PAYPAL *ONLINETIRES	402-935-7733	CA	122.39	1	122.39	0.00	0	122.39	0.18%	1	11.13
281845	Food Exceptions	5814	MR PICKLES 325 - UNION	UNION CITY	CA	121.33	2	60.67	0.00	0	121.33	0.18%	2	0.00
47979	WHOLESALE TRADE	5085	TIFCO INDUSTRIES INC	281-571-6000	TX	116.95	1	116.95	0.00	0	116.95	0.18%	1	6.64
138753	SEMINAR/CONF.	8641	CALIFORNIA SOCIETY OF MUN	916-2312137	CA	110.00	1	110.00	0.00	0	110.00	0.16%	1	0.00
47970	OFFICE SERVICES	7399	MC MILLER COMPANY INC	772-794-9448	FL	107.81	1	107.81	0.00	0	107.81	0.16%	1	0.00
47979	WHOLESALE TRADE	5099	EMEDCO	EMEDCO.COM	NY	102.54	1	102.54	0.00	0	102.54	0.15%	1	0.00
47971	OFFICE SUPPLIES	5943	OFFICESUPPLY.COM	866-302-5397	WI	100.62	2	50.31	0.00	0	100.62	0.15%	2	7.02
289779	COMPUTER	4816	DRI*PINNACLESYS.COM	ORDERFIND.COM	MN	99.95	1	99.95	0.00	0	99.95	0.15%	1	0.00
217413	Prohibited Tran	8699	AWS E-COMMERCE	305-443-9353	FL	99.00	1	99.00	0.00	0	99.00	0.15%	1	0.00
47978	VEHICLE EXPENSE	5533	PEPBOYS STORE 816	UNION CITY	CA	92.57	4	23.14	0.00	0	92.57	0.14%	4	8.42

Merchant Spend Analysis - Detail

MCCG	Merchant Category Code Group Description	MCC	Merchant Name	Merchant City	Merchant State/ Province	Debit Amount	Nbr of Debit Trans	Average Spend per Debit Trans	Credit Amount	Nbr of Credit Trans	Total Spend	% of Total Spend	Nbr of Trans	Total Sales Tax
47970	OFFICE SERVICES	8911	CA SURVEYING & DRAFTNG	DUBLIN	CA	$ 89.16	1	$ 89.16	$ 0.00	0	$ 89.16	0.13%	1	$ 7.20
47979	WHOLESALE TRADE	5311	SEARS ROEBUCK 1248	HAYWARD	CA	87.98	1	87.98	0.00	0	87.98	0.13%	1	8.00
47979	WHOLESALE TRADE	5072	BURLINGTON SAFETY LABORAT	925-8661412	CA	80.00	1	80.00	0.00	0	80.00	0.12%	1	0.00
217413	Prohibited Tran	5992	TLF ROSIES AND POSIES DOW	408-2933773	CA	75.73	1	75.73	0.00	0	75.73	0.11%	1	5.78
47972	OTHER	5999	APEX ENGINEERING PRODU	630-820-8888	IL	75.63	1	75.63	0.00	0	75.63	0.11%	1	0.00
47971	OFFICE SUPPLIES	5942	DEVTRA INC.	OAKVILLE	ON	73.69	1	73.69	0.00	0	73.69	0.11%	1	0.00
47979	WHOLESALE TRADE	5065	ONLINECOMPONENTS.COM	702-462-7300	AZ	72.37	1	72.37	0.00	0	72.37	0.11%	1	5.86
47979	WHOLESALE TRADE	5085	TOOLBARN - TOOL PARTS DI	8665973850	NE	72.00	1	72.00	0.00	0	72.00	0.11%	1	0.00
137510	Rialto	9399	CALIFORNIA SPECIAL DISTR	916-442-7887	CA	65.00	1	65.00	0.00	0	65.00	0.10%	1	0.00
217413	Prohibited Tran	5719	ENERGY LIGHT INC	708-3287185	IL	58.95	1	58.95	0.00	0	58.95	0.09%	1	0.00
47972	OTHER	5999	PAYPAL *DARLENELAMB	402-935-7733	CA	57.98	1	57.98	0.00	0	57.98	0.09%	1	0.00
141822	Hardware Supply	5200	ORCHARD SUPPLY #100	FREMONT	CA	53.23	1	53.23	0.00	0	53.23	0.08%	1	0.00
47970	OFFICE SERVICES	7399	ACT*MSA SAN FRANCISCO	877-551-5560	TX	50.00	2	25.00	0.00	0	50.00	0.07%	2	0.00
47978	VEHICLE EXPENSE	4784	FASTRAK CSC	415-486-8655	CA	50.00	1	50.00	0.00	0	50.00	0.07%	1	0.00
217413	Prohibited Tran	8699	NCCCO-SALT LAKE CITY	801-363-2693	UT	50.00	1	50.00	0.00	0	50.00	0.07%	1	0.00
47979	WHOLESALE TRADE	5085	NW PUMP & EQUIP FREMONT	5032052198	OR	49.18	1	49.18	0.00	0	49.18	0.07%	1	4.27
47970	OFFICE SERVICES	8911	CA SURVEYING & DRAFTNG	SACRAMENTO	CA	44.29	1	44.29	0.00	0	44.29	0.07%	1	2.80

Merchant Spend Analysis - Detail

MCCG	Merchant Category Code Group Description	MCC	Merchant Name	Merchant City	Merchant State/ Province	Debit Amount	Nbr of Debit Trans	Average Spend per Debit Trans	Credit Amount	Nbr of Credit Trans	Total Spend	% of Total Spend	Nbr of Trans	Total Sales Tax
217413	Prohibited Tran	8699	CAL CHAMBER OF COMMERCE	8003318877	CA	$ 42.00	1	$ 42.00	$ 0.00	0	$ 42.00	0.06%	1	$ 0.00
47970	OFFICE SERVICES	7399	YAHOO SMALL BUSINESS	866-562-7228	CA	41.82	3	13.94	0.00	0	41.82	0.06%	3	0.00
47971	OFFICE SUPPLIES	5943	THESTAMPMAKER	888-451-7300	MI	41.05	1	41.05	0.00	0	41.05	0.06%	1	0.00
217413	Prohibited Tran	8699	CALIFORNIA MUNICIPAL TREA	916-2312144	CA	40.00	1	40.00	0.00	0	40.00	0.06%	1	0.00
47961	AUTO/RV DEALERS	7513	U-HAUL CTR THORNTON	FREMONT	CA	34.82	1	34.82	0.00	0	34.82	0.05%	1	3.02
47979	WHOLESALE TRADE	5199	TAP PLASTICS # 20	FREMONT	CA	32.72	1	32.72	0.00	0	32.72	0.05%	1	0.00
47966	MAIL/TELEPHONE	5965	OFFICE DEPOT 1135	800-463-3768	CA	31.84	1	31.84	0.00	0	31.84	0.05%	1	1.99
47971	OFFICE SUPPLIES	5943	OFFICEMAX/OFFICEDEPOT6177	UNION CITY	CA	29.69	1	29.69	0.00	0	29.69	0.04%	1	2.70
47961	AUTO/RV DEALERS	5511	PAYPAL *AONESPORT	402-935-7733	CA	25.98	1	25.98	0.00	0	25.98	0.04%	1	0.00
141822	Hardware Supply	5200	LOWES #01895*	FREMONT	CA	25.27	1	25.27	0.00	0	25.27	0.04%	1	2.19
47960	AIRLINE	3000	UNITED 0162600680606	800-932-2732	TX	25.00	1	25.00	0.00	0	25.00	0.04%	1	0.00
		3000	UNITED 0162600872864	800-932-2732	TX	25.00	1	25.00	0.00	0	25.00	0.04%	1	0.00
47979	WHOLESALE TRADE	5085	WW GRAINGER	877-2022594	PA	24.73	1	24.73	0.00	0	24.73	0.04%	1	2.25
281845	Food Exceptions	5814	CHIPOTLE 1529	UNION CITY	CA	24.37	2	12.19	0.00	0	24.37	0.04%	2	0.00
47979	WHOLESALE TRADE	5072	WELDINGSUPPLY.COM	847-290-1070	IL	18.77	1	18.77	0.00	0	18.77	0.03%	1	0.00
137510	Rialto	9399	PAYPAL *NCC IPMA HR	402-935-7733	CA	15.00	1	15.00	0.00	0	15.00	0.02%	1	0.00
281845	Food Exceptions	5411	SAFEWAY STORE 00019315	FREMONT	CA	8.20	1	8.20	0.00	0	8.20	0.01%	1	0.71
47979	WHOLESALE TRADE	5311	SEARS ROEBUCK 1287	ALBUQUERQUE	NM	0.00	0	0.00	43.91	1	(43.91)	0.00%	1	3.99

Merchant Spend Analysis - Detail

MCCG	Merchant Category Code Group Description	MCC	Merchant Name	Merchant City	Merchant State/ Province	Debit Amount	Nbr of Debit Trans	Average Spend per Debit Trans	Credit Amount	Nbr of Credit Trans	Total Spend	% of Total Spend	Nbr of Trans	Total Sales Tax
47979	WHOLESALE TRADE	5251	FASTENAL COMPANY01	510-785-9991	CA	$ 0.00	0	$ 0.00	$ 148.48	1	$ (148.48)	0.00%	1	$ 0.00
47965	HOTELS	3504	HILTON HOTEL SAN DIEGO	SAN DIEGO	CA	0.00	0	0.00	172.73	1	(172.73)	0.00%	1	0.00
47963	BUSINESS EXPENS	8398	CA ASSOC OF SANITATION AG	SACRAMENTO	CA	0.00	0	0.00	500.00	1	(500.00)	(0.75%)	1	0.00
Total						**$67,667.84**			**$ 865.12**		**$66,802.72**		**231**	**$ 1,411.53**

Total Number of Records: 141

End of Report

Merchant Spend Analysis - Detail Output Parameter Page

Cycle Close Date Range: 01/2016 to 03/2016
Report Type: Detail
Merchant Profile Source: Association
Merchant Names: All
Merchant Category Code Group: All
Merchant States: All

Sort Report By: (1) Total Spend, (2) No Sort, (3) No Sort, (4) No Sort
Break/Subtotal Level: No Break/Subtotal

Processing Hierarchy Position:	Bank	Agent	Company	Division	Department
	1425	3135	51756	All	All

BOARD OF DIRECTORS

QUARTERLY TRAVEL AND TRAINING EXPENDITURE REPORT

3RD QTR, FISCAL YEAR 2016

Board Members	Description	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Beginning Balance	Y-T-D Expense	Balance Available
FERNANDEZ, MANNY								
	TOTAL	0.00	0.00	0.00	0.00	5000.00	0.00	5000.00
HANDLEY, TOM								
	Union City Chamber of Commerce - Spirit Awards Luncheon: Registration		45.00					
	Union City - State of the City Luncheon: Registration		30.00					
	CASA Spring Conference: Registration Fee			525.00				
	CASA Spring Conference: Airfare			155.20				
	CASA Spring Conference: Rental Car			132.69				
	TOTAL	0.00	75.00	812.89	0.00	5000.00	887.89	4112.11
HARRISON, JENNIFER								
	CSDA Webinar: General Manager Evaluations		55.00					
	TOTAL	0.00	55.00	0.00	0.00	5000.00	55.00	4945.00
KITE, PAT								
	CSDA Webinar: Understanding Board Member & District Liability Issues		55.00					
	CSDA Webinar: General Manager Evaluations		55.00					
	TOTAL	0.00	110.00	0.00	0.00	5000.00	110.00	4890.00
LATHI, ANJALI								
	Business Mgmt Daily CD-Audio Conference: Roberts Rules of Order Made Simple	216.70						
	CSDA Webinar: Understanding Board Member & District Liability Issues	69.00						
	CSDA Webinar: Best Practices-Managing Special District Investments		25.00					
	CSDA Webinar: General Manager Evaluations		55.00					
	CSDA Webinar: Who Does What? Best Practices in Board/Staff Relations			65.00				
	TOTAL	285.70	80.00	65.00	0.00	5000.00	430.70	4569.30
	GRAND TOTAL	285.70	320.00	877.89	0.00	25000.00	1,483.59	23516.41

The Board of Directors' Quarterly Expenditure Report is attached as part of the check register in accordance with Board Member Business Expense policy adopted September 5, 1991

CASA
2016 Winter Conference
Ensuring Clean Water for California

January 20-22, 2016

Hilton Palm Springs

Confirmation

CASA has received your registration for the 2016 Winter Conference, **January 20-22, 2016** at the **Hilton Palm Springs, Palm Springs, CA**. Below is the confirmation receipt.

Receipt amount: $525.00
Date: 12/21/2015 14:31:00
ID Code: 10152178
Transaction ID: AR0ECD6A700B
Payment method:Credit Card
Credit Card type: Visa
Delegates:
Tom Handley
Guests attending conference functions:

Thank you,
CASA Office
PH: (916) 446-0388

$50 Cancellation fee on or before Wednesday, January 6, 2016.
No Refund for late cancellations after Wednesday, January 6, 2016.
Please notify CASA via email of a cancellation, refund or change request by contacting Cheryl MacKelvie at cmackelvie@casaweb.org.

Thank you for choosing United

A confirmation email has been sent to: thandley@unionsanitary.ca.gov

Trip information

Print (https://www.united.com/Ual/En/Us/Flight-Search/Book-A-Flight/Confirmation/Printerfriendly/Rev?CartId=FD1EDFD8-FDBB-4E46-8BBE-03F2D2356D6F)

Download (http://www.united.com/Ual/En/Us/Flight-Search/Book-A-Flight/Confirmation/Downloaditinerary/Rev?CartId=FD1EDFD8-FDBB-4E46-8BBE-03F2D2356D6F)

Email (#)

Confirmation number: San Francisco, CA, US (SFO) to Palm Springs, CA, US (PSP)

G0W88T

Manage reservation (https://www.united.com/web/en-US/apps/reservation/main.aspx?TY=F&AC=VI&CN=TID4BHIdhNw%3D&FLN=qUiZPgGvKvo%3D)

Trip summary

Tuesday, January 19, 2016

10:40 am San Francisco, CA, US (SFO)	12:10 pm Palm Springs, CA, US (PSP)	Nonstop 1h 30m total
UA 2023 Airbus A319		

Details (#flight-details-1)

Friday, January 22, 2016

12:55 pm Palm Springs, CA, US (PSP)	2:31 pm San Francisco, CA, US (SFO)	Nonstop 1h 36m total
UA 732 Airbus A319		

Details (#flight-details-2)

Travelers

Thomas Handley	SFO to PSP	27C	Email address: Home phone:
	PSP to SFO	24C	Date of birth: Gender:

Important travel information

The U.S. government raised the security alert level and implemented extra restrictions to assure the security of air travel. Certain changes in airport procedures and restrictions on items allowed on board aircraft are detailed on the Travel Alert: Elevated Security (http://www.united.com/web/en-US/content/news/travelnoticesecurity.aspx) page.

Any changes to your flight reservations may incur additional charges.

Airlines require government issued photo identification upon check-in, such as a driver's license or passport.

Purchase summary

1 adult (18-64)	$113.14
Taxes and fees (#purchSumTF)	$37.06
Total	**$155.20**

Credit card payment: $155.20 (Visa-**2529)

enterprise

Fed Tax Id : 430724835

Consolidated Inv. #	8577403
Rental Agreement #	630347106
Bill Ref #	90074851722
Invoice Date	31-Jan-2016

Bill To Information

UNION SANITARY DISTRICT
5072 BENSON ROAD
UNION CITY, CA - 94587

Rental Information

Reservation Number : 1209855827
Driver : HANDLEY, THOMAS
Pickup Date/Time : 01/19/2016 18:15
Return Date/Time : 01/22/2016 10:38
Miles/kms : 62
Car Class : ICAR Requested Class : ICAR

Vehicle Information

Yr/Make/Model	VIN	License No	Beg/End/Distance
2016/DODGE/DAR	GD613691	7NVF511	2809/2871/62

Rental Branch

PALM SPRINGS AIRPORT
3400 E TAHQUITZ CANYON WAY
PALM SPRINGS, CA - 92262-6970

Return Branch

PALM SPRINGS AIRPORT
3400 E TAHQUITZ CANYON WAY
PALM SPRINGS, CA-92262-6970

Charge Detail

Description	Qty	Period	Rate	Amount
TIME & DISTANCE	3	DAY	31.93	95.79
		Sub Total		95.79
CONCESSION RECOUP FEE 11.11 PCT		PERCENT	11.11	10.97
CUSTOMER FACILITY CHG 10.00/RNTL	1	RENTAL	10.00	10.00
TOURISM FEE 3.50 PCT		PERCENT	3.50	3.35
VEHICLE LICENSE RECOVERY FEE	3	DAY	0.99	2.97
SALES TAX		PERCENT	9.00	9.61
		Total Charges (USD)		**132.69**

RECEIVED
FEB 08 2016
ACCOUNTS PAYABLE

Remit Payment in USD to	For Billing Inquiries	Payment Terms
EAN SERVICES, LLC PO BOX 402383 ATLANTA, GA 30384-2383	Tel#:(877) 530-6141 ARADMIN@EHI.COM	Payment Due Within 30 days of invoice date. Late payments are subject to finance charge.

Individual line item charges such as rental rates for Time and Distance, percentage-based charges (e.g., sales taxes and fees or surcharges), and charges divided between multiple parties may be rounded up or down a whole cent to ensure that the charges equal the actual Total Amount Due and/or to avoid fractional cents.

California Special Districts Association
1112 I Street, Suite 200, Sacramento, CA 95814
Phone: (916) 442-7887 Fax: (916) 442-7889
Toll-Free Phone: (877) 924-2732

Meeting Confirmation

Ms. Anjali Lathi
Director
Union Sanitary District
PO Box 5050
Union City, CA 94587-8550

Fax: (510) 477-7501

Web: Who Does What? Best Practices in Board/Staff Relations
Wednesday, January 20, 2016

For more information, please contact the Education Department at 916-442-7887 or sharonf@csda.net.

You are registered for the following:

Function	Quantity	Rate	Amount
Register for Who Does What Best Practices in Board/Staff	1	65.00	65.00
		Total	65.00
		Payment	65.00
		Balance	0.00

Cancellations must be made IN WRITING and received via fax, mail, or email no later than three days prior to the seminar. All cancellations made within the specified time will be refunded less a $25 processing fee.

10:00 am -12:00 pm

KQED News

Wastewater Becomes a Resource in Silicon Valley

By: Tara Lohan, Water Deeply

April 6, 2016

Despite a much wetter winter than the last several, California is still mired in drought, according to scientists and policymakers. But if you ask architect Bill Worthen of Urban Fabrick, there is plenty of water in the state of California. “It’s just not where we want it, when we want it, in the form we want it,” he said. “To me, as an architect, that’s a classic design problem and that’s also a huge opportunity to think about how we can reuse and rethink water in the state.”

Worthen recently spoke at a gathering of building and design professionals interested in water reuse in Silicon Valley. “Our opportunity here is to think about how we can stop the insanity of using water once as it comes out of our tap.”

The concept of reusing water in Silicon Valley is not new. There are more than 150 miles (240km) of purple pipes – the designated color for pipes carrying recycled water. Some cities have incentives to encourage water reuse in homes and an “advanced water purification center” in San Jose is able to treat wastewater to drinking water standards – yet the region still has an incredible amount of untapped potential.

For starters, most residents are still flushing their toilets with pristine water. “Future generations are going to look at us like we’re insane that we used drinking water to flush poop,” said Gil Friend, chief sustainability officer for the City of Palo Alto. “Who could possibly have thought of something so stupid? But here we are.”

California’s drought, now in its fifth year, has highlighted the need to conserve water and increase efficiency. And slowly gaining more attention is the idea to match water quality to water need. More than half the water supply for Silicon Valley is imported, originating in the Sierra Nevada mountains.

“Does it all need to be the cleanest, safest drinking supply known to mankind or can some of it actually not be that clean?” asks Josiah Cain, a landscape architect at Sherwood Design Engineers.

The Opportunity

The answer is actually that we don’t always need pristine drinking water to meet a lot of our water supply requirements. We certainly don’t need it to flush our toilets. For a typical office building, 95 percent of the water used could come from nonpotable sources, says Worthen. This

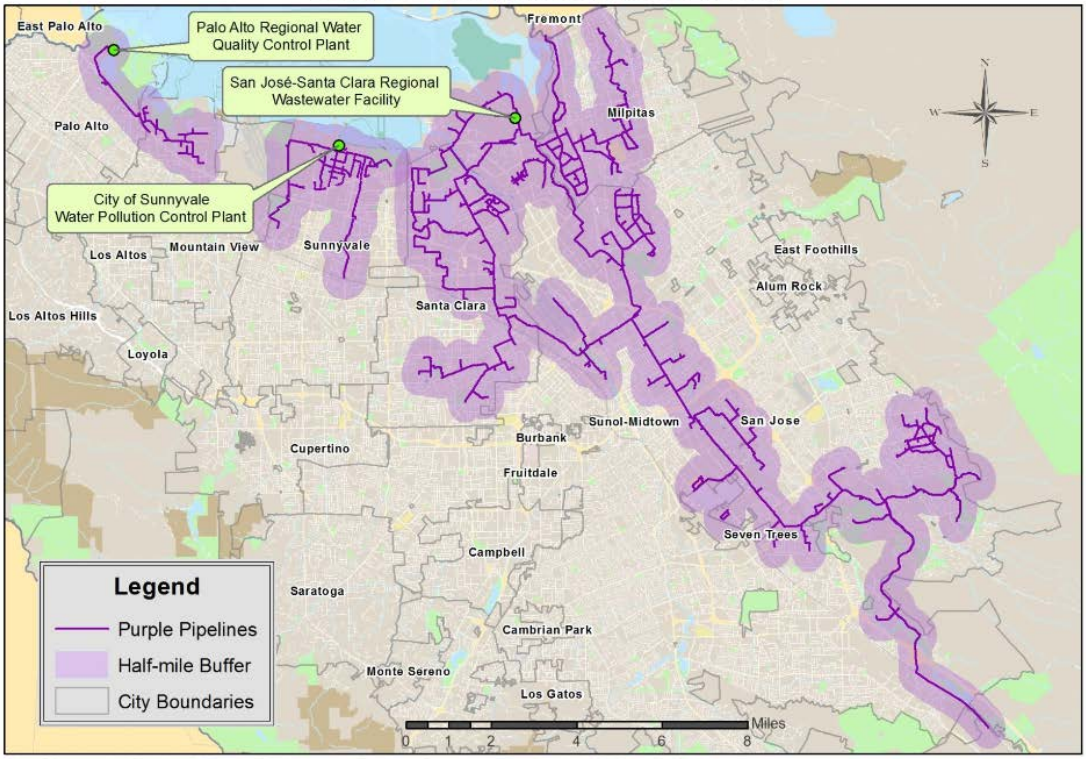
means that almost all the water used in an office building goes to irrigation, heating and cooling systems, and to flushing toilets and urinals. In a multiunit residential building, the number is 50 percent – much lower, but still significant.

Arid California will undoubtedly face future droughts and climate change modeling indicates that these may be longer and more severe, and that the timing and amount of crucial snowpack will change, affecting the availability of water when it's needed most in hot summer months. All of which means that finding new ways to augment water supply is becoming a priority that extends beyond the current water crunch.

In a 2014 report, the Pacific Institute, a global water think tank, found that California had significant potential to increase water reuse and capture stormwater. "Traditional supply options are tapped out," the report found, adding that groundwater is overdrafted in many places and there are few options for creating new surface storage reservoirs.

Reuse creates a water supply that is both reliable and local. "It can also provide economic and environmental benefits by reducing energy use, diversions from rivers and streams, and pollution from wastewater discharges," the report found.

Purple Pipelines in Silicon Valley



City of Sunnyvale, Brendan McCarthy, Environmental Services Department, Purple pipe KMZ file (6/16/14).
South Bay Water Recycling, Pedro Hernandez, Environmental Services Department, Purple Pipe KML file (7/8/14).
City of San Jose, Sim Ong, Environmental Services Department, Purple Pipe KMZ file (7/28/14).
Full GIS Database, Conservation Lands Network, (Jun. 2011) http://www.bayarealands.org/mapsdata.html (11/10/14).

Saskia Fagan, Nov 2014

Beyond what's already being done there is another 1.2 million to 1.8 million acre-feet (1.4 to 2.2 billion cubic meters) per year potential to expand water reuse in the state, especially in coastal areas, the Pacific Institute reported. And in the San Francisco Bay Area and Southern California cities, capturing stormwater could reduce flooding and boost water supplies by 420,000 to 630,000 acre-feet or more annually. For comparison, an average California home uses 0.5–1 acre-foot a year.

And there are other reasons, too. Researchers from UCLA found that there are health benefitsfrom using recycled water because it supports the maintenance of green spaces, can decrease air pollution and can lower greenhouse gas emissions.

Water Reuse in Action

Silicon Valley has gotten a jump on water reuse, but still has a long way to go before it's widespread at either the home, business or municipal level.

Alan Hackler, founder of Bay Maples landscaping company, got a good sense in the last year of how popular water reuse is becoming. Hackler's team installed 16 graywater systems and five rainwater catchment systems in homes in 2015 and held numerous workshops to teach the principles to others.

The easiest and most popular way to reuse water at home is for "laundry-to-landscape" systems, for which there is now a state code. These involve piping washing machine water to gardens for irrigation. Hackler also does graywater projects that use bathroom sink and shower water for irrigation, too.

Some cities, like Palo Alto, are helping to spur more water reuse in the home. Palo Alto's building code requires new construction or large renovation projects to make homes laundry-to-landscape ready.

When it comes to water reuse at the home level, "There is a lot of interest in it, but the number of people who've actually done it is still fairly small," said Phil Bobel, the deputy director of Public Works for Palo Alto. "It requires time, energy, you have to get a building permit and deal with our building department and all of that stuff. There are a lot things that slow you down."

Hackler has also found that the process isn't always consistent from city to city – or the costs. A building department permit in one city may be $600 and in another it's only $200.

Not surprisingly, the biggest impact from recycled water currently comes from water reuse at the municipal level. And the biggest player in this is the South Bay Water Recycling program in San Jose, which provides nonpotable water via 143 miles (230km) of "purple pipes" to the City of Santa Clara, the City of Milpitas and two water retailers – San Jose Water Company and San Jose Municipal Water System.

Each day about 10 million gallons (40,000 cubic meters) of recycled water are piped from this system to 800 irrigation and industrial customers including Levi's Stadium, Great America, McCarthy Ranch Shopping Center, Guadalupe Gardens, Intel and San Jose City Hall. The water is used in cooling towers and power plants, for toilet flushing in dual-plumbed buildings and for irrigating golf courses, street medians, college campuses, parks and other landscaping.

Some of the water in the system is currently mixed with highly treated recycled water from theSilicon Valley Advanced Water Purification Center. It treats wastewater to drinking water standards, but the water so far is only permitted to be used for nonpotable purposes, although in the future it may be used to replenish groundwater.

Besides San Jose's treatment plant, there are three others – in Gilroy/Morgan Hill, Sunnyvale and Palo Alto – that produce recycled water for purple pipe systems. Palo Alto's biggest customer is next door in Mountain View's north of Bayshore neighborhood, home to Google and other businesses.

San Mateo County has some municipal water recycling, although not as much as Santa Clara County. Daly City's North San Mateo County Sanitation District has been providing 1 million gallons (4,000 cubic meters) of recycled water per day to irrigate areas of Daly City as well as irrigating Harding Park and Fleming Park golf courses in San Francisco. And nearby, the Pacifica Recycled Water Project irrigates the Sharp Park Golf Course and other areas in Pacifica.

Across Silicon Valley, interest in recycled water is high, says Bobel. "The drought has really increased everybody's interest, that's for sure," he said. Palo Alto hopes to expand its recycled water pipeline, as does San Jose. And Bobel believes that in the future all the south county recycled water systems in Santa Clara may be connected.

"A lot of people are recognizing while this current 'drought' may end, we may be in for a long-term low-rainfall kind of situation and we shouldn't count on the high rainfall years of the past," he said. "We should start to plan alternative water supplies."

Navigating the Speed Bumps

Ten years ago, Bobel says, expanding water recycling systems might have been impeded by lack of public acceptance. But now the public is onboard and the biggest hurdle is the cost to build the pipelines, he says. The same holds true for constructing buildings with dual plumbing to reuse graywater – it's mostly an issue of economics, although regulatory challenges do exist, too.

"The giant public sector capital investment that's necessary to do something like this, we don't seem to have available," said Cain. "So we do the district approach." In between small-scale home systems and large municipal pipeline systems is another area of opportunity – creating onsite graywater or blackwater reuse systems in buildings. A few of these decentralized systems can also be linked together in small districts.

In the Bay Area, San Francisco has been a driver of this technology. Last year it became thefirst city in the country to require new developments over 250,000 square feet (23,000 square meters) to use onsite water reuse systems for any water needs that are nonpotable. The ordinance also requires buildings of 40,000 square feet or more to do an assessment of the reuse potential.

The new requirement was driven by interest in a program developed by the San Francisco Public Utilities Commission, which spent several years working to align health, public works and water departments on the vision.

But it hasn't been easily transferrable to other places in California yet, although the interest is great.

Marianna Grossman, a founder and managing partner at Minerva Ventures, wanted to help bring those regulations to Santa Clara and San Mateo counties. "It should be easy because it is so clear that we need to not flush drinking water down the toilet," said Grossman.

But instead she found a lot of barriers to implementation. In San Francisco, there is only one city and county. "In San Mateo, I think there are 22 separate cities and towns," said Grossman. "In Santa Clara there are 16, plus each county has unincorporated areas that they run." And there are also the various health, planning and public works departments.

In working to help four technology companies in Mountain View to establish onsite reuse systems, she said they encountered more problems.

"Mountain View's city council thinks they've said they want to do water reuse, but in fact the way the regulations get enforced, it makes it very hard to do," she said. "There is a lack of alignment in the city government from the policymakers to the different departments."

Sebastien Tilmans, director of operations at the Codiga Resource Recovery Center at Stanford University, said he's also had conversations with several different technology companies in Silicon Valley that are interested in onsite water reuse systems. "They want to increase their resilience and to be good corporate citizens," he said. "But the real obstacle to getting the systems installed today is regulatory – it's building inspections, codes, things like that – and of course education of not just the public, but making sure regulators and building inspectors are on board with water reuse and trust it to be safe."

Grossman believes there should be better statewide regulations for water reuse protocols. "To try and go city by city to set zoning rules around water reuse I don't think is efficient or sensible," said Grossman. "It is a nightmare for developers and builders if every single one has a different plan and approach and process."

Currently the State Water Resources Control Board's Division of Drinking Water has been tasked with investigating the feasibility of developing uniform water recycling criteria for direct potable reuse, which is when water is recycled and directly piped to customers for drinking

water. But these potential new regulations would not cover nonpotable water reuse projects, such as decentralized graywater systems.

Grossman believes standard regulations will help drive more businesses to seize the economic advantages of water reuse. “Rules and policies build market possibilities,” she said. “Once you have the rules, you create a huge market that drives down the cost of a water reuse system and increases the knowledge of plumbers, engineers and architects on how to do those systems.”

But Friend cautions that it’s not just a matter of regulations, it’s also a matter implementing these systems on a meaningful scale. “In San Francisco, we’ve got terrific examples of iconic buildings [doing water reuse] that are valuable because they show what’s possible, that it works, it’s economical, it’s safe,” he said. “But to go from there to shifting hundreds of thousands of households in a region is a steeply challenging issue we need to think through. We can’t get there by random. The regulation may be the easy part, as hard as that is.”

CHEMISTRY

Benign by design: how chemists aim to end pharmaceutical pollution of the environment

From antibiotics to hormones and pain killers - residue from drugs is found in wastewater, rivers, fish, and even in polar bear fat. But chemists say they may know how to end this environmental pollution.

The world has to change - so does the way the chemical and pharmaceutical industries work - this was the consensus at the Green and Sustainable Chemistry Conference in Berlin.

Chemists from all over the world came to the German capital to discuss how to avoid repeating the mistakes of the past.

"I think green chemistry can make a significant contribution towards saving the world," said James Clark, a green chemist at University of York in the UK.

This relatively young field in chemistry has emerged over the past two decades. It is by definition "the design of chemical products and processes that reduce or eliminate the generation of hazardous substances."

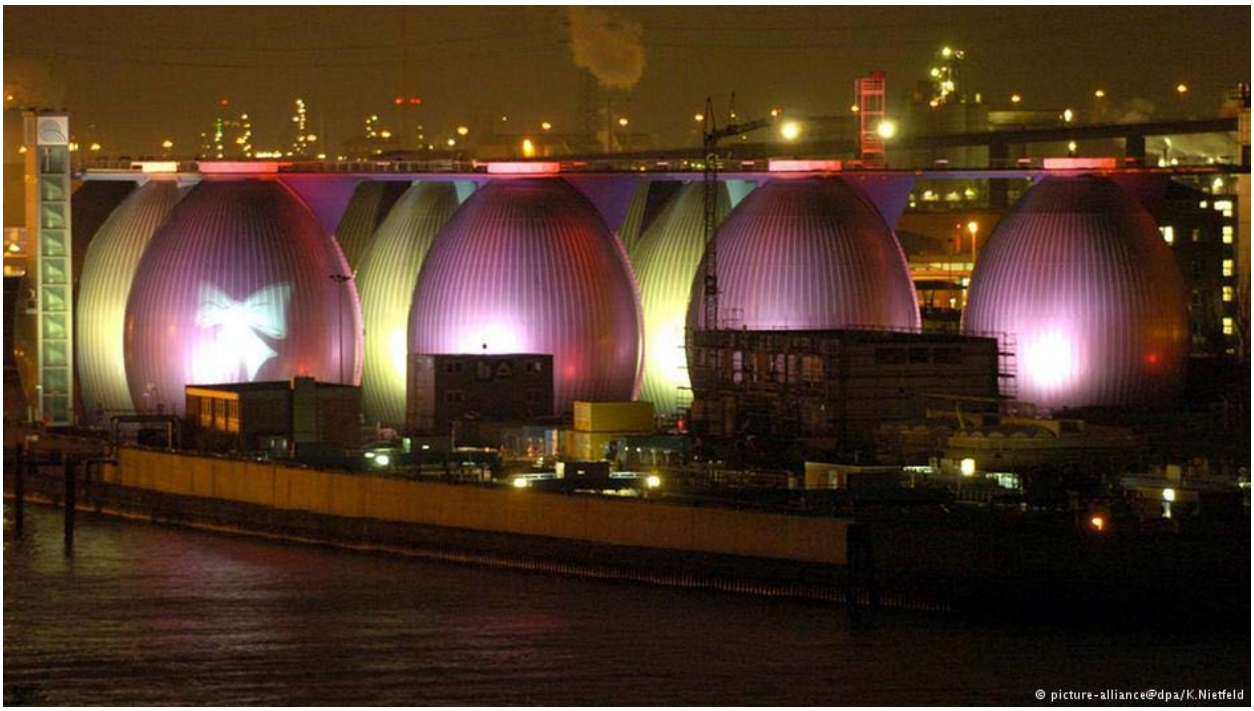
"Historically there has been a focus on how to make chemicals that provide [a] certain performance," Paul Anastas, a green chemist at Yale University in the US told DW.

"For example, [scientists designed] a plastic that is either flexible or brittle, without thinking about if it is going to hurt humans or the environment," he says.

The attendees at the Berlin conference, though, work in a field that aims to focus on greener solutions. Yes, chemicals have to provide a certain performance, but they should also be designed in a non-harmful way - right from the very beginning.

The curse of immortality

In the 1990s, there was a common belief that long-term durability of molecules and materials would always be a good thing.



Wastewater treatment often only removes 50 percent of harmful substances

Many scientists still think this way.

But this way of thinking is wrong, says Anastas. "You only want a chemical to survive as long as it is providing its necessary function and not beyond."

With chemicals, immortality is a problem: long-lasting pharmaceuticals leave our bodies undigested und unchanged, and escape into the environment.

They accumulate in water systems, in fish, in our bodies, even in the fat of polar bears in the Arctic.

Keeping water resources clean

The concentration of drug molecules in drinking water is small. But as Klaus Kümmerer from University of Lüneburg told DW, "we don't know yet what happens when we absorb these mixtures of substances over a lifetime."

Moreover, a constant presence of antibiotics in the environment causes resistance in bacteria. As a result, these pharmaceuticals lose their effectiveness and become of little use to patients who are critically ill.

And part of the problem is how we recycle our water.

Sewage plants only filter out about 50 percent of harmful substances.

Modern sewage cleaning processes, which use light or radical chemical processes, may even make things worse.

"Out of the original pharmaceuticals, other compounds may form," says Kümmerer, "and those follow-up products may even be more hazardous than the original substance."

Short-lived molecules

Kümmerer works on designing pharmaceuticals that are easily degradable by bacteria in the environment.

Kümmerer: pharmaceutical companies will see an "opportunity" in green drugs

Say you dispose of unwanted pills by flushing them down a toilet, the molecules should break down completely into safe molecules - that is, water and carbon dioxide.

This may sound futuristic, but as James Clark told DW, it is a well-established principle.

"For many years people didn't believe it was possible to make biodegradable plastics. Now we have some," Clarks says. "Okay, it is only a few percent of the total market, but it is a beginning."

Green cleaning products with biodegradable surfactants have been commercially available for a while.

A matter of design

To design biodegradable pharmaceuticals, chemists often have to change the structure of the original molecule.

"The degradation of these things [must be] triggered by some stimulus that it doesn't encounter during its useful life," says Anastas. "That might be a wavelength of light or a particular pH."

The molecule, though, still has to function as a drug.

"It is a challenge," says Kümmerer. "And it will take a few years' time. But if we don't start now, we will never reach the goal."

Kümmerer says pharmaceutical companies, interested in these future drugs, have started to approach him.

"They see a market opportunity," says Kümmerer. "[They think] if our drugs are just as good as the ones on the market but biodegradable as well, consumers may prefer them."

But it is just the same with every new green product, says Clark. "The perfect solution has to be economically as well as environmentally acceptable and, of course, perform the job. But it is possible."

Pleasanton Weekly.com

Saturday, April 9, 2016

Sewer district names general manager

Dan McIntyre appointed as DSRSD leader

by Meredith Bauer / Pleasanton Weekly

DSRSD general manager Dan McIntyre (Photo courtesy DSRSD)

Dublin San Ramon Services District (DSRSD) has named Dan McIntyre as its new general manager, succeeding Bert Michalczyk after his retirement.

The district's board appointed McIntyre Tuesday night, saying his experience with DSRSD and other water agencies, his creativity and his plan to move the district forward were compelling. He previously worked as the district's engineering services manager.

Board member Madelyne Misheloff said in a release she was impressed with McIntyre's "expertise and knowledge of the industry, but also his ability to work with the Tri-Valley water agencies and collaborate on solutions to long-term water supply challenges."

The district has been searching for a new leader after former general manager Michalczyk retired in November after 14 years as the district's leader. John Archer, the district's administrative services manager, had been serving as interim general manager.

A $28,500 contract was established with search firm Ralph Andersen & Associates to find high-quality candidates from the Western U.S.

DSRSD faces challenges with obtaining enough water for its potable water customers in Dublin and parts of San Ramon. With four years of drought under its belt, the district updated its longterm goals to emphasize the need to find other sources of water. Currently, the vast majority of DSRSD's potable water comes from the Zone 7 Water Agency, which relies on a state source for its water supply.

Before being hired at DSRSD a year ago, McIntyre worked as Livermore's Public Works Director for 12 years. He managed a staff of 110 and a budget of $51 million, according to a district release.

"Collaborating throughout the Tri-Valley on complex drought and water supply issues has been a career highlight for me over the last three years," McIntyre said in a release. "As the District's General Manager, I look forward to continuing productive partnerships in the Tri-Valley to expand water recycling and diversify our water supply."

DSRSD provides wastewater to Pleasanton on contract and drinking water to Dublin and parts of San Ramon.

EAST BAY TIMES

April 14, 2016

Field Poll on crisis

State is still in drought mindset

Despite a wet winter, most Californians planning on conserving more water

By Laurel Hamers and Lindzi Wessel

Staff writers

Despite the wettest winter in five years, an overwhelming majority of Californians believe that the state faces an extremely serious water shortage and plan to continue conserving water, according to a poll released Thursday. The poll, carried out by the Field Research Corp., sampled 800 registered voters across the state. It's the fifth such survey that's been carried out since April 2014, tracking Californians' changing attitudes as the historic drought dragged on.

Concern peaked in October 2015, when the Field Poll found 76 percent of residents calling the water shortage extremely serious. That number has now eased to 62 percent, the latest poll found, but still remains high. In April 2014, 60 percent called the water shortage extremely serious, and 51 percent felt that way in March 1977, another drought year.

"I'm thrilled," says Felicia Marcus, chair of the California Water Resources Control Board, a state agency that manages California's water supplies, citing the way public concern has translated into increased conservation in the past few years. "I feel like the public has really risen to the occasion."

Thanks to El Niño, the Sierra snowpack is currently at 66 percent of its long-term April 1 average, a dramatic improvement from just 5 percent last year.

And California's reservoirs are filling up, too. Six months ago, Lake Shasta's water level had dropped to 34 percent full, but California's largest lake and reservoir now is at 91 percent of its capacity, slightly higher than the historic average for this time of year. Other large lakes also have bounced back. Butte County's Lake Oroville also hit 91 percent of capacity in April, and Folsom Lake has climbed to 78 percent of capacity, up from a mere 17 percent in October.

But even if California's water prognosis is better than before, residents aren't planning to ditch their drought tolerant plants and low-flow shower heads anytime soon: 86 percent said they planned to continue their water-saving measures even after the drought ended.

"I think this current drought has really affected Californians in trying to change their lifestyles and behaviors," says Mark Di-Camillo, director of the Field Poll.

Since the drought began, Pete Veilleux of Oakland- based East Bay Wilds nursery has seen increased interest in native landscaping, using plants naturally adapted for drought. One rainy winter, he said, is unlikely to change that.

"I'd like to have a lawn," said Rick Kinkaid, a Campbell resident who replaced his grass with drought-tolerant plants. "I'm a kayaker and a sailor, and I like the idea of being able to wash the kayak down on the lawn and not on a tarp on the concrete." But, he added, "I don't think we can just expect to have unlimited amounts of water. That isn't the first drought we've been through at all. I think we have to be somewhat cautious of water use, at least not squander it."

Although the winter rains fell unevenly across the state, soaking Northern California while leaving Southern California comparatively dry, the poll found more Northern Californians (68 percent) consider the drought extremely serious than Southern Californians (60 percent), a trend that has continued since April 2014. Yet residents throughout the state (86 percent) said they planned to continue reducing water usage after the drought is over.

Statewide, 52 percent said it is important for homeowners to upgrade toilets and other appliances to be more water efficient, and 45 percent said they should replace thirsty lawns with water-sipping, drought tolerant plants and shrubs.

A majority statewide, 55 percent, said they had been directly affected by the state's water shortage.

The poll's overall margin of error was plus or minus 3.5 percentage points.

The California Water Resources Control Board will meet next week to discuss whether to enact mandatory water restrictions again this summer, and if so, what those will look like, Marcus said. The board hopes that local agencies will continue to educate their communities about water-saving measures, she said.

"I think folks want to know how to do more with less water," she said. "If you give the public the facts and the information, they will absolutely do the right thing."

While water restrictions can be inconvenient, some Californians are accepting them as a new reality.

"Honestly, I think we should hold onto the restrictions for longer," says Veilleux. "This could just be a blip. It could be bad again next year."

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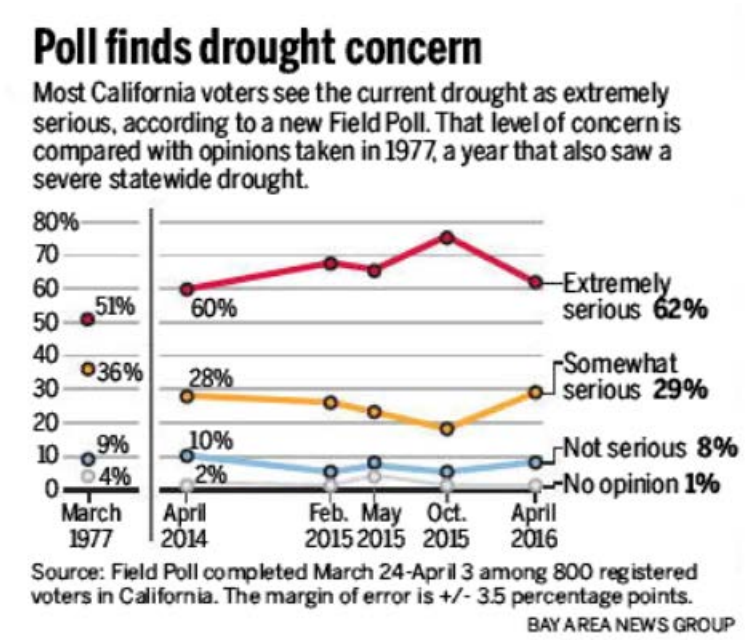

DATE: April 15, 2016

FOR IMMEDIATE RELEASE:

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Union Sanitary District Repairs to Damaged Sewer Line Complete,

Alvarado Boulevard Opened to Traffic

Restoration of a sinkhole area on Alvarado Boulevard was completed by Union Sanitary District and the roadway opened to traffic yesterday. Final activities such as painting curbs may require one westbound lane to close today near New Haven Street, but the lane will re-open by 3 p.m. Crews are scheduled to return for completion of final lane and crosswalk striping on Thursday, April 21, weather permitting.

The sinkhole appeared the afternoon of October 14, 2015, and quickly grew, causing extensive damage to a 33-inch diameter sewer pipe that runs 20 feet below Alvarado Boulevard in Union City. A manhole in the area was also damaged when the sinkhole occurred, as were other utilities.

USD's repair work was hampered by difficult soil and groundwater conditions. The District had to stabilize the site by pumping a large amount of groundwater out of the area before an assessment could be performed and the best repair option chosen. This required drilling three wells, each about 30 feet deep and two feet in diameter, through which the groundwater was pumped. Groundwater remained a challenge throughout the repair activities.

The project required closing westbound traffic lanes on Alvarado Boulevard between Fair Ranch Road and Fredi Street. Although USD searched for the cause of the sinkhole as repairs progressed, it is still unknown. Multiple factors could have contributed to the sinkhole. In addition to extensive groundwater, the affected area included sandy soils and infrastructure for several utilities.

The sewer line was repaired and a new manhole installed, with flows returning to normal in mid-March. Repairs to other utilities in the vicinity of the sinkhole were also completed.

“This work has been our number one priority, and we are happy to return Alvarado Boulevard to vehicle traffic”, said USD General Manager Paul Eldredge. “We appreciate the public’s patience during our efforts to protect the safety of motorists and others in the area while performing difficult and complex work. The District also thanks the City of Union City, New Haven Unified School District and the Alameda County fire department for their support of our efforts to minimize inconvenience to the public and ensure that appropriate access was maintained at all times for emergency services.”

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Union Sanitary District operates a 33 million gallon per day wastewater treatment facility in Union City and provides collection, treatment and disposal services to a total population of over 344,000 in Fremont, Newark and Union City, CA. The District maintains over 800 miles of underground pipeline in its service area. For more information about Union Sanitary District, please visit www.unionsanitary.ca.gov.

Correspondence from BIA on Proposed USD Capacity Fee Increase

Email dated 4-21-2016

From BIA

Have you received comments from the cities and/or the developers with projects in the pipelines in those cities?

As of the writing of this response, the District has not received any comments or inquiries from the cities or any of the developers with projects in the cities. Furthermore, the District has been interfacing with several developers regarding unrelated matters over the last few weeks with no mention of this proposed fee increase during these discussions and meetings.

From BIA Membership

1. Will the single-family unit fee increase in four equal parts each year or will it be divided in unequal amounts?

   The proposed fee increase for the single family units, as well as all the other fee categories, are proposed to increase in four equal installments over the four year period. This is outlined in attachment A to the proposed Ordinance 35.22.

2. It seems like new development might be paying a disproportionate amount of the operational costs for the District. An initial review seemed to indicate that the engineer's report did not differentiate between costs to maintain the current system and the costs to increase capacity due to new development.

   The District's Capital Improvement Program breaks out project costs related to Renewal & Replacement vs. Capacity enhancement. The updated capacity fee calculation completely excludes any cost recovery for capital improvements related to Renewal and Replacement to ensure new development does not have to buy-in for capital improvement costs related to repairing, rehabilitating, or replacing existing infrastructure. To be conservative, the updated fee calculation only recovers 90% of the capital costs related to Capacity enhancement required for serving future development.

3. Earlier this year, the District increased user rates. Does this report reflect that? What is the "share" or ratio paid by "new" development compare to that paid by "current" users?

   The new sewer service rates expressly excluded the costs of constructing new capacity to benefit new development in calculating the charges, and only included the costs to provide sewer services to existing users. Conversely, the updated Capacity Fee Study took into account the sewer service rates proportional share of the capital projects. The CIP projections used in the determination of the proposed capacity fees, which are included in the body of the report, show a total District capital project requirement over a 10 year period of which the proposed capacity

fee's share is approximately 32% of the total. The remainder is attributable to the sewer service charges.

4. The District adopted new connection fees two years ago. Less than two years later, this increase? What happened?

   The District last updated the capacity fee study back in 2010 but elected not to increase the fees to the recommended amount at that time due to a host of reasons. Since then, the District has been gradually increasing these capacity fees toward the amounts recommended in 2010. The last time the District implemented one of these incremental increases was approximately two years ago. The reason for no increase since then was that the District was re-evaluating and updating the fee study.