



BOARD MEETING AGENDA
Monday, October 24, 2016
Regular Meeting - 7:00 P.M.

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

1. Call to Order.

2. Pledge of Allegiance.

3. Roll Call.

- Motion 4. Approve Minutes of the Meeting of October 10, 2016.

- Information 5. Monthly Operations Report for September 2016 *(to be reviewed by the Budget & Finance and Legal/Community Affairs Committee)*.

6. Written Communications.

7. 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 8. Authorize the General Manager to Execute Task Order No. 2 with Degenkolb Engineers for the Seismic Vulnerability Assessment, Phase 3 *(to be reviewed by the Engineering & Information Technology Committee)*.

- Motion 9. Consider Modifying Board Officer Titles from President and Vice-President to Chair and Vice-Chair.

- Information 10. Check Register.

- Information 11. Recycled Water Feasibility Study Update.

- Information 12. Annual Report to Union City for Fiscal Year 2016 *(to be reviewed by the Legislative Committee)*.

- Information 13. Cal-Card Quarterly Activity Report *(to be reviewed by the Budget & Finance Committee)*.

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- Information 14. Board Expenditures for the 4th Quarter of FY 2016 *(to be reviewed by the Budget & Finance Committee)*.
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- Information 15. Board Expenditures for the 1st Quarter of FY 2017 *(to be reviewed by the Budget & Finance Committee)*.
-
- Information 16. Committee Meeting Reports. *(No Board action is taken at Committee meetings):*
- a. Legal/Community Affairs Committee – Wednesday, October 19, 2016, at 10:30 a.m.
 - Director Handley and Director Toy
 - b. Legislative Committee – Thursday, October 20, 2016, at 4:30 p.m.
 - Director Kite and Director Fernandez
 - c. Engineering and Information Technology Committee – Friday, October 21, 2016, at 9:30 a.m.
 - Director Fernandez and Director Toy
 - d. Budget & Finance Committee – Friday, October 21, 2016, at 11:00 a.m.
 - Director Handley and Director Lathi
 - e. Personnel Committee – will not meet.
 - f. Audit Committee – will not meet.
 - g. Ad Hoc Subcommittee for Communications Strategy.
-
- Information 17. General Manager’s Report. *(Information on recent issues of interest to the Board)*.
-
18. 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.
-
19. Adjournment – The Board will adjourn to the next Regular Meeting in the Boardroom on Monday, November 14, 2016, at 7:00 p.m.

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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



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

LEGAL/COMMUNITY AFFAIRS COMMITTEE MEETING
Committee Members: Director Handley and Director Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

AGENDA
Wednesday, October 19, 2016
10:30 A.M.

Karen W. Murphy
Attorney

Alvarado Conference Room
5072 Benson Road
Union City, CA 94587

1. Call to Order

2. Roll Call

3. Public Comment

4. Items to be reviewed for the Board meeting of October 24, 2016:
 - Monthly Operations Report for September 2016 – Odor Report and Work Group Reports

5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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).

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Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

LEGISLATIVE COMMITTEE MEETING
Committee Members: Director Kite and Director Fernandez

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

AGENDA
Thursday, October 20, 2016
4:30 P.M.

Karen W. Murphy
Attorney

Alvarado Conference Room
5072 Benson Road
Union City, CA 94587

**THIS MEETING WILL BE TELECONFERENCED WITH DIRECTOR KITE FROM THE EXTERIOR OF
35040 NEWARK BOULEVARD, NEWARK, CALIFORNIA.
THE TELECONFERENCE LOCATION SHALL BE ACCESSIBLE TO THE PUBLIC.**

1. Call to Order

2. Roll Call

3. Public Comment

4. Items to be reviewed for the Board meeting of October 24, 2016:
 - Annual Report to Union City for Fiscal Year 2016_____
5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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THE PUBLIC IS INVITED TO ATTEND



**ENGINEERING & INFORMATION TECHNOLOGY
COMMITTEE MEETING**

Committee Members: Director Fernandez and Director Toy

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

AGENDA
Friday, October 21, 2016
9:30 A.M.

Alvarado Conference Room
5072 Benson Road
Union City, CA 94587

1. Call to Order

2. Roll Call

3. Public Comment

4. Items to be reviewed for the Board meeting of October 24, 2016:
 - Authorize the General Manager to Execute Task Order No. 2 with Degenkolb Engineers for the Seismic Vulnerability Assessment, Phase 3_____
5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

BUDGET & FINANCE COMMITTEE MEETING

Committee Members: Director Handley and Director Lathi

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

AGENDA

Friday, October 21, 2016

11:00 A.M.

Karen W. Murphy
Attorney

**Alvarado Conference Room
5072 Benson Road
Union City, CA 94587**

1. Call to Order

2. Roll Call

3. Public Comment

4. Items to be reviewed for the Board meeting of October 24, 2016:
 - Monthly Operations Report for September 2016 – Financial Reports
 - Cal-Card Quarterly Activity Report
 - Board Expenditures for the 4th Quarter of FY 2016
 - Board Expenditures for the 1st Quarter of FY 2017_____
5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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THE PUBLIC IS INVITED TO ATTEND

**MINUTES OF THE MEETING OF THE
BOARD OF DIRECTORS OF
UNION SANITARY DISTRICT
October 10, 2016**

CALL TO ORDER

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

PLEDGE OF ALLEGIANCE

ROLL CALL

PRESENT: Pat Kite, Vice President
Anjali Lathi, Secretary
Manny Fernandez, Director
Jennifer Toy, Director (arrived at 7:03 p.m.)

ABSENT: Tom Handley, President

STAFF: Paul Eldredge, General Manager
Karen Murphy, District Counsel
Sami Ghossain, Technical Services Manager
James Schofield, Collection Services Manager
Armando Lopez, Treatment and Disposal Services Manager
Pamela Arends-King, Business Services Manager/CFO
Robert Simonich, Fabrication, Maintenance, and Construction Manager
Regina McEvoy, Assistant to the General Manager/Board Secretary

VISITOR: Ratinesh Prasad, Graduate Student at California State University East Bay

APPROVAL OF THE MINUTES OF THE MEETING OF SEPTEMBER 26, 2016

It was moved by Secretary Lathi, seconded by Director Fernandez, to approve the Minutes of the Meeting of September 26, 2016. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi
NOES: None
ABSENT: Handley, Toy
ABSTAIN: None

APPROVAL OF THE MINUTES OF THE SPECIAL MEETING OF OCTOBER 3, 2016

It was moved by Director Fernandez, seconded by Secretary Lathi, to approve the Minutes of the Special Meeting of October 3, 2016. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi
NOES: None
ABSENT: Handley, Toy
ABSTAIN: None

WRITTEN COMMUNICATIONS

There were no written communications.

ORAL COMMUNICATIONS

There were no oral communications.

PARTICIPATIVE/TEAM BASED MANAGEMENT PRESENTATION

Ratinesh Prasad, Graduate Student at California State University East Bay, provided a presentation regarding the team based culture at Union Sanitary District.

CONSIDER A MOTION TO CANCEL THE NOVEMBER 28, 2016 AND DECEMBER 26, 2016 BOARD OF DIRECTORS MEETINGS

Assistant to the General Manager/Board Secretary McEvoy stated the second regularly scheduled Board meeting in November falls on the Monday following the Thanksgiving holiday. District offices will be closed Thanksgiving Day and the day after, leaving a three day week that would make producing the packet and scheduling committee meetings difficult. The second regularly scheduled Board meeting in December falls on the day the District will be closed in observance of the Christmas holiday, and the Board has canceled the second meeting in December in the past. Staff recommended the Board consider canceling the meetings scheduled for November 28, 2016 and December 26, 2016.

It was moved by Director Toy, seconded by Secretary Lathi, to Cancel the November 28, 2016 and December 26, 2016 Board of Directors Meetings. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSENT: Handley
ABSTAIN: None

REVIEW AND CONSIDER APPROVAL OF POLICY NO. 2000, ACCOUNTING STANDARDS

Business Services Manager/CFO Arends-King stated Policy No. 2000, Accounting Standards, is reviewed every three years. Staff proposed minor edits to the Policy which provided clarification and updated information. Staff recommended the Board approve Policy No. 2000, Accounting Standards.

It was moved by Director Toy, seconded by Secretary Lathi, to Approve Policy No. 2000, Accounting Standards. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSENT: Handley
ABSTAIN: None

CONSIDER A RESOLUTION TO ACCEPT A SANITARY SEWER EASEMENT FOR TRACT 8162 – PARASOL, LOCATED ON FREMONT BOULEVARD NORTH OF DECOTO ROAD IN THE CITY OF FREMONT

Technical Services Manager Ghossain stated TRI Pointe Homes, Inc. will construct 38 multi-family residential units for Tract 8162 in the City of Fremont. Sanitary sewer service to the residential development will be provided by a new 8-inch main constructed by TRI Pointe Homes, Inc. in private streets. TRI Point Homes, Inc. has granted the District a sanitary sewer easement that provides for access, maintenance, and service of the new sewer main. Staff recommended the Board adopt a resolution to accept a sanitary sewer easement for Tract 8162 – Parasol, located on Fremont Boulevard north of Decoto Road in the City of Fremont.

It was moved by Secretary Lathi, seconded by Director Fernandez, to Adopt Resolution 2790, Accepting a Sanitary Sewer Easement for Tract 8162 – Parasol, Located on Fremont Boulevard North of Decoto Road in the City of Fremont, California. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSENT: Handley
ABSTAIN: None

CONSIDER A RESOLUTION TO ACCEPT A SANITARY SEWER EASEMENT FOR TRACT 8182 – TALAMORE, LOCATED ON PERALTA BOULEVARD SOUTH OF DUSTERBERRY WAY IN THE CITY OF FREMONT

Technical Services Manager Ghossain stated Warmington Talamore Associates LLC will construct 16 detached single-family residential units for Tract 8182 in the City of Fremont. Sanitary sewer service to the residential development will be provided by a new 8-inch main constructed by Warmington Talamore Associates LLC in private streets. Warmington Talamore Associates LLC has granted the District a sanitary sewer easement that provides for access, maintenance, and service of the new sewer main. Staff recommended the Board adopt a resolution to accept a sanitary sewer easement for Tract 8182 – Talamore, located on Peralta Boulevard south of Dusterberry Way in the City of Fremont.

It was moved by Secretary Lathi, seconded by Director Toy, to Adopt Resolution No. 2791, Accepting a Sanitary Sewer Easement for Tract 8182 – Talamore, Located on Peralta Boulevard in the City of Fremont, California. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSENT: Handley
ABSTAIN: None

AUTHORIZE THE GENERAL MANAGER TO EXECUTE AMENDMENT NO. 1 TO TASK ORDER NO. 2 WITH CAROLLO ENGINEERS FOR PROVIDING ENGINEERING SERVICES DURING CONSTRUCTION OF THE FREMONT AND PASEO PADRE LIFT STATIONS IMPROVEMENTS PROJECT

Technical Services Manager Ghossain stated the Project's construction contract was awarded to Mountain Cascade, Inc. on September 28, 2015. The Board authorized execution of Task Order No. 2 with Carollo for providing engineering services during construction of the Project on October 26, 2015. Due to areas inaccessible during design and the need to keep the lift stations fully operational during construction, there were additional engineering services requested of Carollo than originally anticipated. Staff recommended the Board authorize the General Manager to execute Amendment No. 1 to Task Order No. 2 with Carollo Engineers, in the amount of \$43,103, to continue providing engineering services for the construction of the Fremont and Paseo Padre Lift Stations Improvements Project.

It was moved by Director Fernandez, seconded by Director Toy, to Authorize the General Manager to Execute Amendment No. 1 to Task Order No. 2 with Carollo Engineers for Providing Engineering Services During Construction of the Fremont and Paseo Padre Lift Stations Improvements Project. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSENT: Handley
ABSTAIN: None

DESIGNATE AND APPOINT TWO BOARD REPRESENTATIVES TO AD HOC SUBCOMMITTEE ON GENERAL MANAGER CONTRACT NEGOTIATIONS

District Counsel Murphy stated the Board would need to appoint two Directors to serve on an ad hoc subcommittee on the General Manager's contract negotiations.

It was moved by Secretary Lathi, seconded by Vice President Kite, to appoint President Handley and Secretary Lathi to serve as members, and Director Fernandez to serve as alternate, of the Ad Hoc Subcommittee on General Manager Contract Negotiations. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSENT: Handley
ABSTAIN: None

INFORMATION ITEMS:

Check Register

All questions were answered to the Board's satisfaction.

Report on the East Bay Dischargers Authority (EBDA) Meeting of September 22, 2016

Director Toy provided a summary of the EBDA meeting held September 22, 2016.

COMMITTEE MEETING REPORTS:

The Budget & Finance, Legal/Community Affairs, and Engineering and Information Technology Committees met.

GENERAL MANAGER'S REPORT:

General Manager Eldredge reported the following:

- The District has been partnering with Alameda County Water District (ACWD) for several water conservation rebate programs including clothes washers, toilets, and other indoor plumbing. PG&E has administered the Residential High Efficiency Clothes Washer Rebate Program, which has been offered through ACWD for the past 20 years. PG&E recently informed ACWD that they will discontinue administration of the rebate program by December 31, 2016. General Manager Eldredge stated the clothes washer program has provided 34,000 rebates over the 20 year period. Vice President Kite requested statistics for the toilet rebate program.
- Tesla has submitted a proposal for a significant expansion to its Fremont factory. Tesla is a permitted industry and District staff have begun discussing the impact such an expansion would have on inspections.
- Environmental Compliance staff reported that the the Science in the Park event held October 1, 2016, was very well attended and there was a significant interest in USD. Staff collected over 400 pollution prevention pledges, and provided an interactive presentation which showed that wipes do not break down in the sewer system. Though the event was held in Hayward, it was heavily promoted to schools in the District's service area and a high percentage of the individuals who stopped by the USD table were District customers.
- General Manager Eldredge and Business Services Manager/CFO Arends-King were recently interviewed at Standard & Poor's to receive the District's first credit

rating. Staff received the results of that meeting and were pleased to inform the Board the District received a credit rating of AA+ with a stable outlook.

OTHER BUSINESS:

There was no other business.

ADJOURNMENT:

The meeting was adjourned at 7:55 p.m. to a Special Meeting in the Alvarado Conference Room on Tuesday, October 18, 2016, at 6:00 p.m.

The Board will then adjourn to the next scheduled Regular Board Meeting to be held in the Boardroom on Monday, October 24, 2016, at 7:00 p.m.

SUBMITTED:

ATTEST:

REGINA McEVOY
BOARD SECRETARY

ANJALI LATHI
SECRETARY

APPROVED:

TOM HANDLEY
PRESIDENT

Adopted this 24th day of October, 2016



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: October 17, 2016

TO: Board of Directors - Union Sanitary District

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

SUBJECT: Agenda Item No. 5 - Meeting of October 24, 2016
Information Item: **Monthly Operations Report for September 2016**

Background

Attached are Monthly Operations Reports for September 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 was one odor complaint received during the month of September from a Union City resident. The resident left a voicemail message on a Wednesday evening for the Treatment and Disposal Services Work Group Manager stating an odor had been present for the past day and a half. District staff responded to the call the following morning and a tour of the neighborhood detected no odors. There were no Plant activities during the stated time period that may have caused odors.

SAFETY:

- We had one incident this month. We had an employee hit his leg with a grinder. The employee declined medical treatment.
- The one employee that has been on modified duty for the past few months remained in the same condition for the month of September.

- We completed First Aid CPR training for many of the district employees. We have another make up class scheduled later in the year.
- Most of the employees enjoyed the Employee Recognition Fiesta as we continue to maintain good safety performance.

STAFFING & PERSONNEL:

Completed Recruitments Resulting in Promotions:

- BS Coach (now FAST Coach) Laurie Brenner – offer made and accepted September 16, 2016, and the start date was October 17, 2016.

Other Completed Recruitments:

- Collection Service Worker I – Offer made to Art Diosdado on September 16, 2016, and the start date was October 10, 2016.

Recruitments Opened:

- Collection Service Worker 7th Conditional Lead – internal only
- Senior Accountant position was opened due to Debi Kull’s retirement on September 23, 2016, and is scheduled to close October 21, 2016.
- Recruitment for an As-Needed Receptionist temporary pool was opened and closed following testing of qualified applicants.

Other Accomplishments:

- 2017 Medical Benefits Open Enrollment held
- Second USD Leadership School session held – Time and Workflow Management

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

- Met with Lystek staff at the District
- Met with the Ad Hoc Subcommittee for Communications Strategy
- Attended the USDiesta Employee Recognition Event
- Attended CPR/First Aid/AED Training
- Attended the BAB2E Steering Committee Meeting
- Attended the EBDA Commission Meeting
- Made a presentation to Standard & Poor’s for District credit rating

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 September 2016

During the recording period from September 01, 2016 through September 30, 2016, there was one odor related service request received by the District.

City: Union City

1. Complaint Details:

Date: 9/21/2016

Location: MACKINAW ST

Wind (from): West

Temperature: 56 Degrees F

Time: 4:33 pm

Reported By: Sam Dua

Wind Speed: 9 mph

Weather: Sunny

Response and Follow-up:

Resident left voicemail with T&D WGM on a Wednesday evening stating odor was bad for the past 1-1/2 days. Call was responded to the following Thursday morning. No Plant activities happened during that time period that could be responsible for the odors. A tour of the neighborhood detected no odors.



Legend

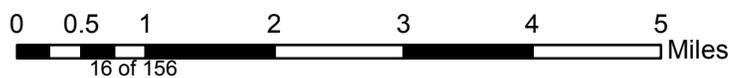
Odor Complaints: September 2016

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

Odor Complaints: Oct. 2015 to Aug. 2016

- ★ Odor found, USD resolved (14)
- Odor found, not related to USD (5)
- ▲ No odor found (10)

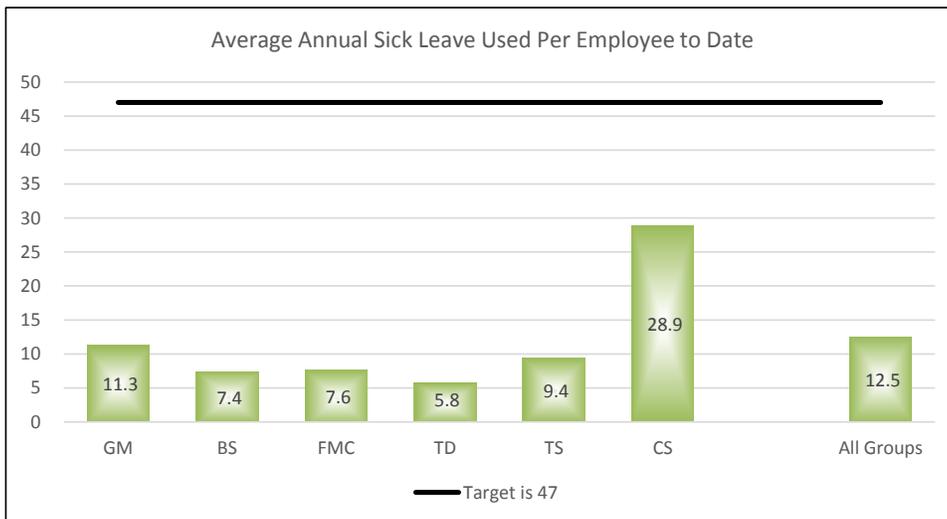
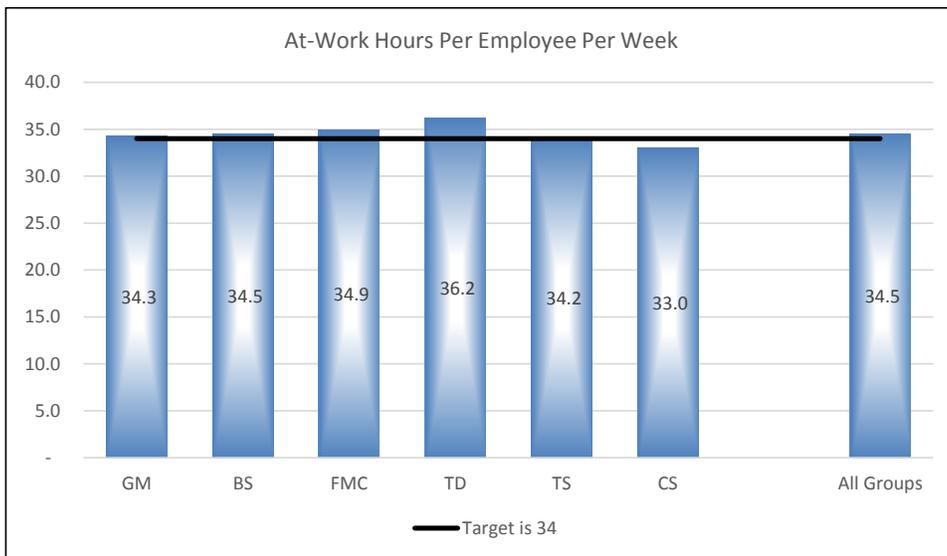
**Location of Odor Reports
October 2015 to September 2016**



HOURS WORKED AND LEAVE TIME BY WORK GROUP

June 30, 2016 through September 21, 2016

Weeks to Date: 12 out of 52 (15.4%)



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

June 30, 2016 through September 21, 2016

Weeks to Date: 12 out of 52 (15.4%)

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	FY16		
		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	789.50	24.50	34.3	148.00	-	-	22.50	11.3	2	36.1	40.6
BS	22	9,000.00	0.50	34.5	1,344.46	53.24	-	162.30	7.4	22	35.1	21.4
FMC	23	9,320.58	203.25	34.9	1,472.17	-	71.00	175.25	7.6	22	35.3	52.4
TD	26	10,886.50	272.17	36.2	1,566.00	-	-	150.50	5.8	25	35.4	49.9
TS	33	13,350.33	30.89	34.2	1,778.42	2.68	-	308.57	9.4	32	34.6	40.8
CS	31	11,507.50	635.59	33.0	2,345.44	248.25	-	895.31	28.9	31	35.1	55.0
All Groups	137	54,854.41	1,166.90	34.5	8,654.49	304.17	71.00	1,714.43	12.5	134	35.1	44.5

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

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(2) Overtime hours includes call outs.

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BUDGET AND FINANCE REPORT

FY 2017

Year-to-date as of 9/30/16

25% of year elapsed

Revenues

	Budget	Actual	% of Budget Rec'd	Unaudited Last Year Actuals 6/30/16
Capacity Fees	\$8,935,000	\$1,436,219	16%	\$7,233,337
Sewer Service Charges	50,404,690	13,568	0%	50,110,962
Operating	1,355,000	197,738	15%	1,233,675
Interest	475,500	162,147	34%	502,975
Misc. (incl. LAVWMA pymnt, solar, Cogen rebates)	505,000	96,315	19%	408,913
Subtotal Revenues	\$61,675,190	\$1,905,988	3%	\$59,489,862
SRF Loan Proceeds (Thickener)	2,800,000	979,464	35%	3,385,590
Total Revenues + SRF Proceeds	\$64,475,190	\$2,885,452	4%	\$62,875,452

Expenses

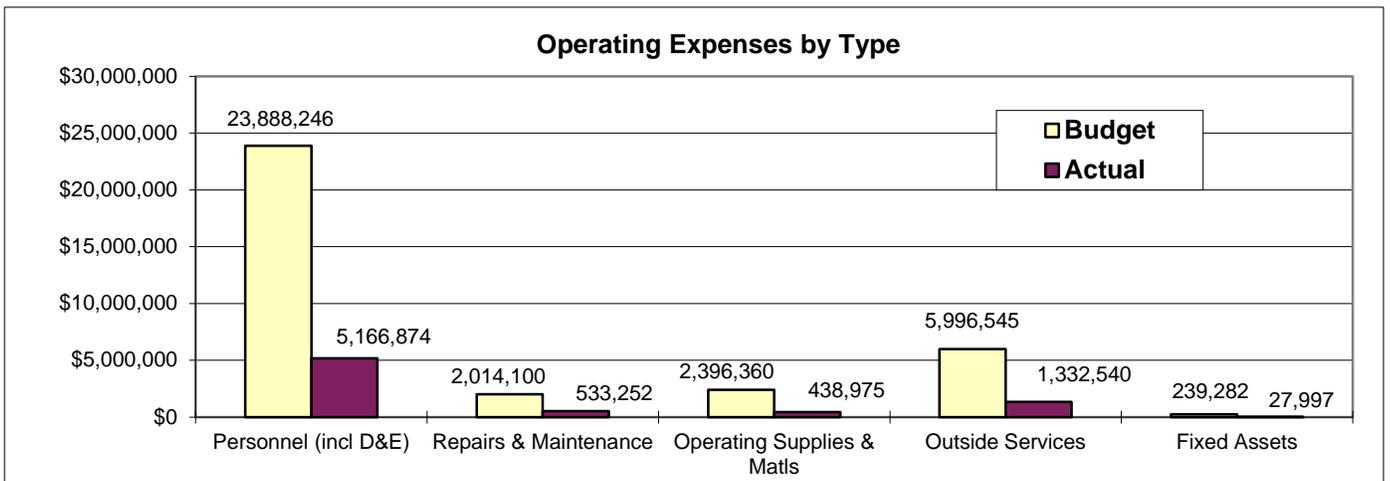
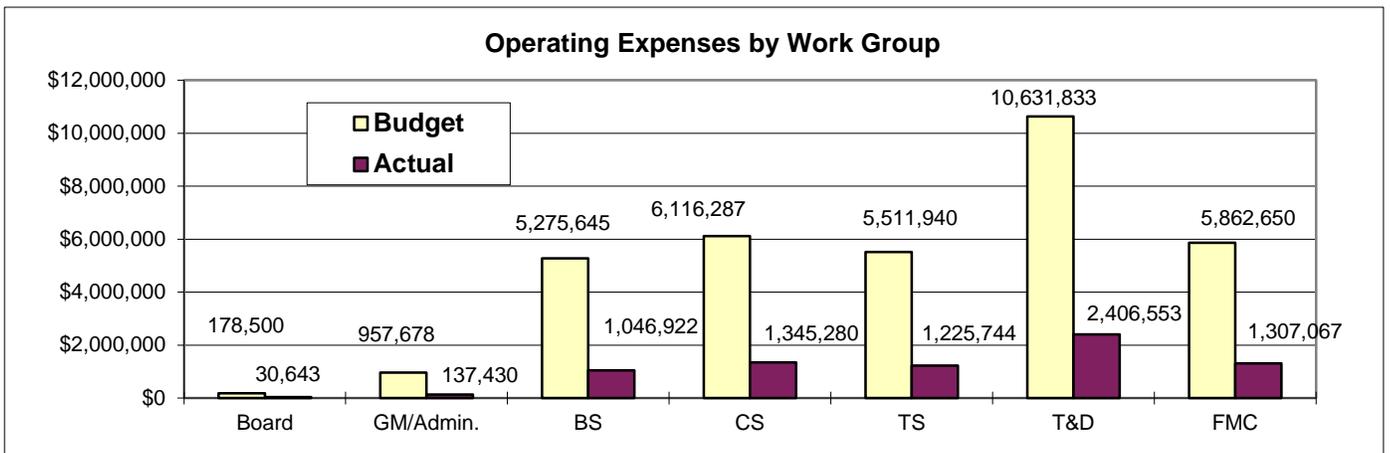
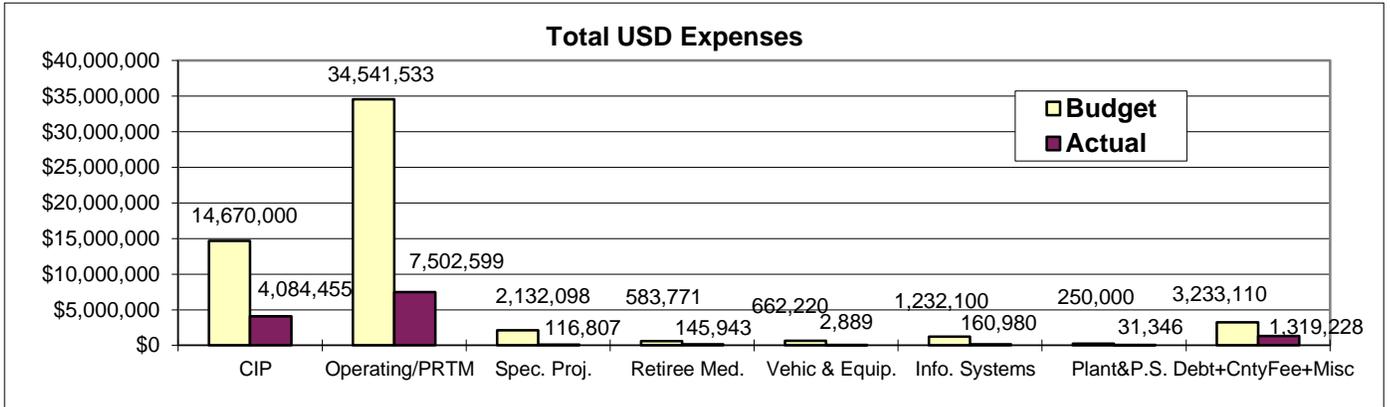
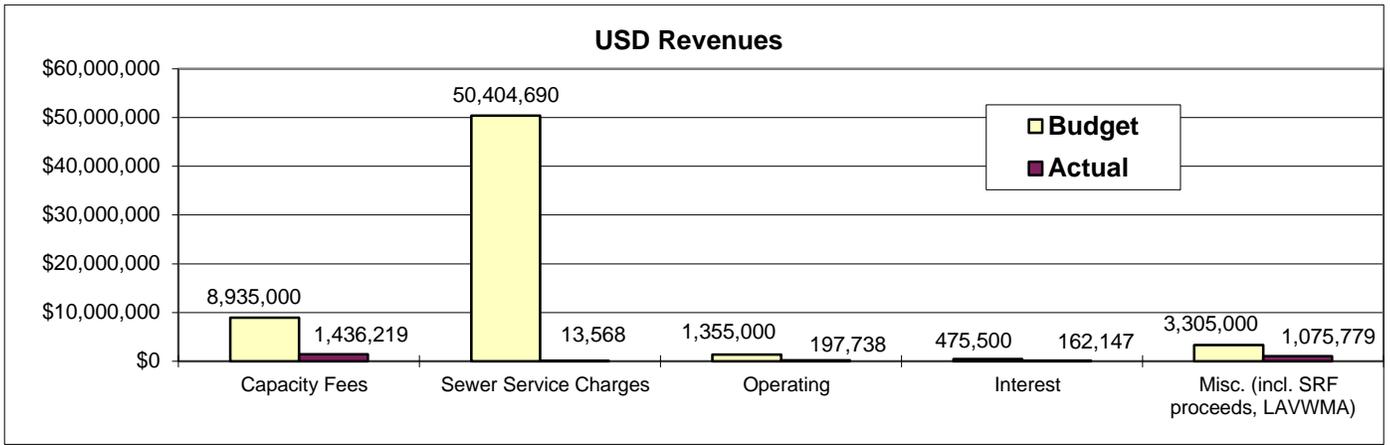
	Budget	Actual	% of Budget Used	Last Year Actuals
Capital Improvement Prog.				
Capacity Projects	\$4,342,500	\$818,534	19%	\$3,009,426
Renewal & Repl. Projects	10,327,500	3,265,921	32%	8,494,486
Operating	34,534,533	7,499,639	22%	31,895,499
Special Projects	2,132,098	116,806	5%	707,526
Retiree Medical (Annual Required Contribution)	583,771	145,943	25%	561,205
Vehicle & Equipment	662,220	2,889	0%	341,967
Information Systems	1,232,100	160,980	13%	854,511
Plant & Pump Station R&R	250,000	31,346	13%	272,479
Emergency Fund (Sinkhole)	0	0	0%	2,208,595
Pretreatment Fund	7,000	2,960	42%	29,249
County Fee for Sewer Service Charge Admin.	106,000	0	0%	105,866
Debt Servicing:				
SRF Loans (Irv., Wilw., LHH, Cdr, NPS, Sub1, Boyc, Prim CI)	3,127,110	1,319,228	42%	3,127,110
Total Expenses	\$57,304,832	\$13,364,246	23%	\$51,607,919
Total Revenue & Proceeds less Expenses	\$7,170,358	(\$10,478,794)		\$11,267,533

Gross Operating Expenses by Work Group

	Budget	Actual	% of Budget Used	Last Year Actuals
Board of Directors	\$178,500	\$30,643	17%	\$133,294
General Manager/Admin.	957,678	137,430	14%	884,051
Business Services	5,275,645	1,046,922	20%	4,772,324
Collection Services	6,116,287	1,345,280	22%	5,873,909
Technical Services	5,511,940	1,225,744	22%	5,156,725
Treatment & Disposal Services	10,631,833	2,406,553	23%	9,506,339
Fabrication, Maint. & Construction	5,862,650	1,307,067	22%	5,568,856
Total	\$34,534,533	\$7,499,639	22%	\$31,895,499

Operating Expenses by Type

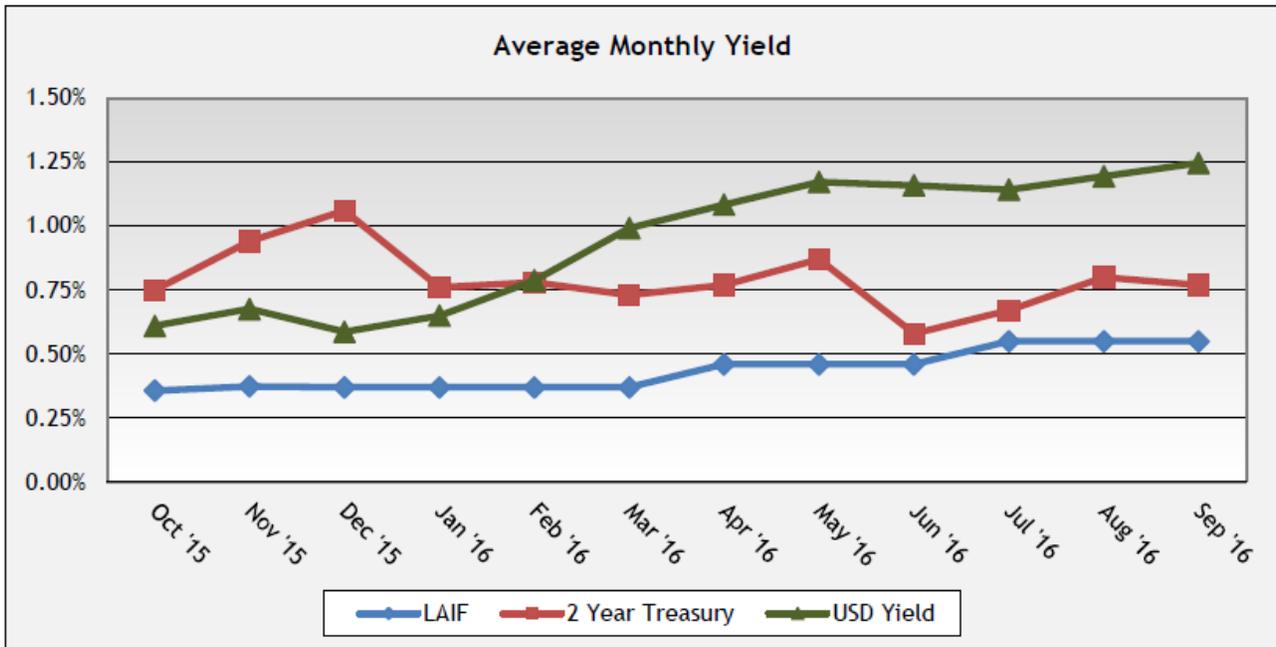
	Budget	Actual	% of Budget Used	Last Year Actuals
Personnel (incl D&E)	\$23,888,246	\$5,166,874	22%	\$22,107,543
Repairs & Maintenance	2,014,100	533,252	26%	1,965,202
Supplies & Matls (chemicals, small tools)	2,396,360	438,975	18%	2,273,252
Outside Services (utilities, biosolids, legal)	5,996,545	1,332,540	22%	5,342,319
Fixed Assets	239,282	27,997	12%	207,183
Total	\$34,534,533	\$7,499,639	22%	\$31,895,499



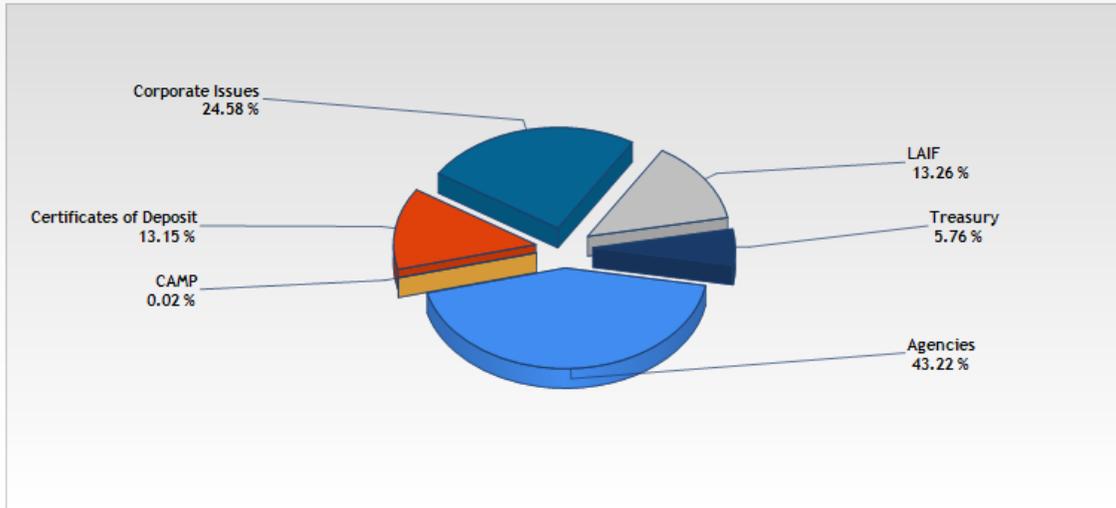
**Business Services Group
Activities Report
September 2016**

- The Organizational Performance Program Manager (OPPM) delivered TC Orientations (make up sessions).
- The OPPM attended CSDA seminar on financial controls.
- The OPPM initiated FIST/MMT team merge activities; planned and facilitated 2 workshops.
- The OPPM served as the Steering Committee member for WEF Water Leadership Institute 2016 (planning meetings).
- The OPPM delivered Leadership School session (Leadership and Social Styles).
- The OPPM facilitated Alt Comp Ceremony for the District.
- The OPPM facilitated Collection Services Call Out Process discussion.
- The OPPM prepared/presented Annual Performance Report for board of directors.
- The OPPM planned and facilitated Co-digestion pilot for multiple groups.
- The OPPM facilitated final Vector replacement discussion (achieved consensus) for Collection Services.
- The OPPM served as CWEA AC17 Education Program Team member (solicited).
- IT launched the soft opening of District new website.
- Purchasing received the Achievement of Excellence in Procurement Award for 2016.

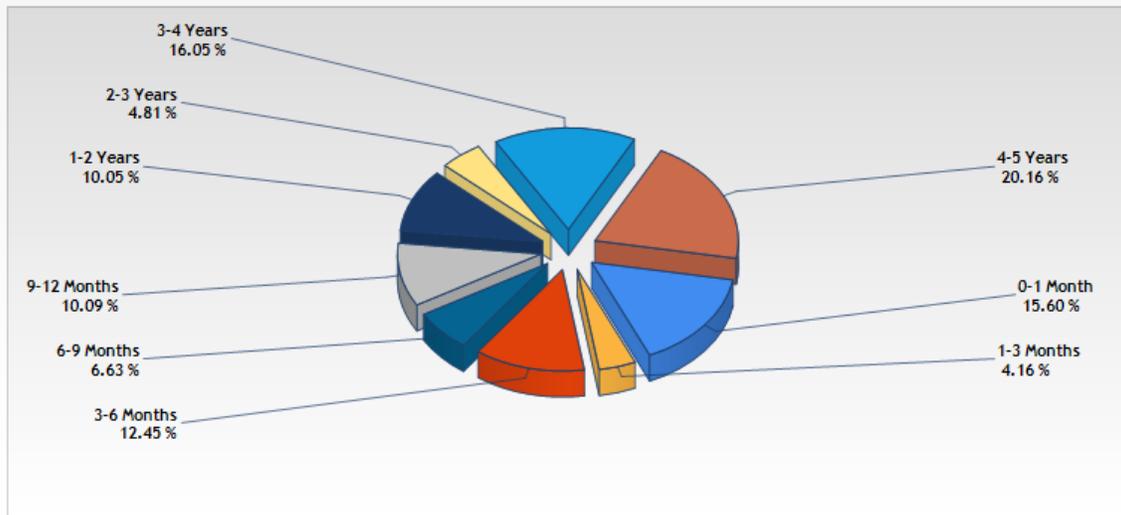
Performance Measures for the USD Investment Portfolio



Portfolio Holdings Distribution by Asset Class



Portfolio Holdings Distribution by Maturity Range



Maturity Range	Face Amount/Shares	YTM @ Cost	Cost Value	Days To Maturity	% of Portfolio	Market Value	Book Value	Duration To Maturity
0-1 Month	8,124,339.27	0.599	8,124,339.27	5	15.60	8,124,630.18	8,124,339.27	0.01
1-3 Months	2,145,000.00	0.756	2,164,304.00	51	4.16	2,145,856.18	2,146,412.29	0.14
3-6 Months	6,374,000.00	0.925	6,484,039.69	139	12.45	6,399,809.16	6,400,581.41	0.38
6-9 Months	3,454,000.00	0.772	3,454,107.43	221	6.63	3,451,979.71	3,453,750.64	0.61
9-12 Months	5,237,000.00	0.939	5,251,539.00	325	10.09	5,241,311.60	5,244,469.27	0.89
1-2 Years	5,226,000.00	1.054	5,230,990.00	495	10.05	5,228,663.94	5,229,264.38	1.34
2-3 Years	2,498,000.00	1.343	2,503,370.00	971	4.81	2,513,559.66	2,502,458.73	2.61
3-4 Years	8,160,000.00	1.851	8,356,901.85	1,277	16.05	8,359,033.60	8,339,195.62	3.38
4-5 Years	10,500,000.00	1.945	10,494,500.00	1,654	20.16	10,501,920.00	10,494,829.67	4.38
TOTAL / AVERAGE	51,718,339.27	1.246	52,064,091.24	702	100	51,966,764.03	51,935,301.28	1.87

Union Sanitary District
Board Report - Holdings
 Report Format: By Transaction
 Group By: Asset Class
 Average By: Cost Value
Portfolio / Report Group: All Portfolios
As of 9/30/2016

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 1.17 5/16/2019-17	3133EF7L5	Moodys-Aaa	5/16/2016	1,000,000.00	1,000,000.00	1.170	999,990.00	1.170	5/16/2017	5/16/2019	1.92
FFCB 1.3 11/25/2019-16	3133EGBK0	Moodys-Aaa	5/25/2016	1,000,000.00	997,950.00	1.300	999,990.00	1.360	11/25/2016	11/25/2019	1.92
FFCB 1.58 10/13/2020-16	3133EF2A4	Moodys-Aaa	4/13/2016	1,000,000.00	1,000,000.00	1.580	1,000,040.00	1.580	10/13/2016	10/13/2020	1.92
FFCB 1.59 3/23/2020-17	3133EFR25	Moodys-Aaa	3/23/2016	1,000,000.00	1,000,000.00	1.590	1,002,440.00	1.590	3/23/2017	3/23/2020	1.92
FFCB 1.7 5/3/2021-17	3133EF5T0	Moodys-Aaa	5/3/2016	1,000,000.00	1,000,000.00	1.700	1,001,500.00	1.700	5/3/2017	5/3/2021	1.92
FHLB 0.625 11/23/2016	3130A3J70	Moodys-Aaa	12/16/2015	1,000,000.00	999,000.00	0.625	1,000,460.00	0.732		11/23/2016	1.92
FHLB 0.8 5/17/2017	3130A4Q54	Moodys-Aaa	3/27/2015	1,000,000.00	1,001,690.00	0.800	1,001,420.00	0.720		5/17/2017	1.92
FHLB 0.9 9/28/2017	3130A5KH1	Moodys-Aaa	7/22/2015	1,000,000.00	1,001,140.00	0.900	1,001,710.00	0.847		9/28/2017	1.92
FHLB Step 3/15/2021-16	3130A7EG6	Moodys-Aaa	3/15/2016	1,000,000.00	1,000,000.00	1.000	1,000,280.00	2.216	12/15/2016	3/15/2021	1.92
FHLB Step 4/28/2021-16	3130A7PR0	Moodys-Aaa	4/28/2016	1,000,000.00	1,000,000.00	1.000	999,840.00	2.114	10/28/2016	4/28/2021	1.92
FHLB Step 4/28/2021-16	3130A7QX6	Moodys-Aaa	4/28/2016	1,000,000.00	1,000,000.00	1.250	1,000,070.00	2.021	10/28/2016	4/28/2021	1.92
FHLMC 0.8 8/25/2017-16	3134G8L49	Moodys-Aaa	2/25/2016	1,000,000.00	1,000,000.00	0.800	999,460.00	0.800	11/25/2016	8/25/2017	1.92
FHLMC 1 7/25/2017	3134G3ZH6	Moodys-Aaa	6/24/2015	1,000,000.00	1,004,540.00	1.000	1,002,960.00	0.780		7/25/2017	1.93
FHLMC 1.25 10/28/2019-17	3134G8XQ7	Moodys-Aaa	4/28/2016	1,000,000.00	1,000,000.00	1.250	1,000,460.00	1.250	4/28/2017	10/28/2019	1.92
FHLMC Step 3/30/2020-17	3134G8ST7	Moodys-Aaa	3/30/2016	1,000,000.00	1,000,000.00	1.000	1,001,490.00	1.744	3/30/2017	3/30/2020	1.92
FHLMC Step 4/28/2021-16	3134G8VZ9	Moodys-Aaa	4/28/2016	2,500,000.00	2,500,000.00	1.250	2,499,600.00	2.116	10/28/2016	4/28/2021	4.80
FHLMC Step 4/28/2021-16	3134G8Z28		5/10/2016	1,000,000.00	999,500.00	1.125	1,000,070.00	2.044	10/28/2016	4/28/2021	1.92

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
FHLMC Step 7/28/2020-16	3134G8X20	Moodys-Aaa	4/28/2016	1,000,000.00	1,000,000.00	1.300	1,000,050.00	1.709	10/28/2016	7/28/2020	1.92
FNMA 1.25 1/30/2017	3135G0GY3	Moodys-Aaa	12/16/2015	1,000,000.00	1,004,790.00	1.250	1,002,600.00	0.820		1/30/2017	1.93
FNMA 1.5 6/16/2021-16	3136G3QX6	Moodys-Aaa	6/16/2016	1,000,000.00	995,000.00	1.500	1,000,000.00	1.604	12/16/2016	6/16/2021	1.91
FNMA Step 5/12/2021-17	3136G3MD4	Moodys-Aaa	5/12/2016	1,000,000.00	1,000,000.00	0.900	1,000,520.00	1.851	5/12/2017	5/12/2021	1.92
Sub Total / Average				22,500,000.00	22,503,610.00	1.163	22,514,950.00	1.508			43.22

CAMP

CAMP LGIP	LGIP4000	None	5/31/2011	9,839.85	9,839.85	0.640	9,839.85	0.640	N/A	N/A	0.02
Sub Total / Average				9,839.85	9,839.85	0.640	9,839.85	0.640			0.02

Certificates of Deposit

Ally Bank 1 10/24/2016	02006LKM4	None	10/23/2014	240,000.00	240,000.00	1.000	240,076.41	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	240,092.36	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	239,636.91	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	247,899.06	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	245,023.29	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	245,022.44	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	239,482.76	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	239,797.08	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	240,076.41	1.000		10/24/2016	0.46
Capital One National Asso Bank 1.25 8/28/2017	14042E6B1	None	8/26/2015	245,000.00	245,000.00	1.250	244,680.60	1.250		8/28/2017	0.47
Community Bank of the Chesapeake 0.75 8/8/2017	20350ABN0	None	6/8/2016	248,000.00	248,000.00	0.750	246,631.24	0.750		8/8/2017	0.48
Compass Bank 0.95 6/5/2017	20451PLE4	None	6/5/2015	240,000.00	240,000.00	0.950	239,472.91	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	239,967.46	0.750		1/3/2017	0.46
First Bank of Richmond 0.7 8/2/2017	319267FK1	None	6/2/2016	248,000.00	248,000.00	0.700	246,552.88	0.700		8/2/2017	0.48
First Niagara Bank 1.1 10/30/2017	33583CSV2	None	10/30/2015	245,000.00	245,000.00	1.100	243,909.35	1.100		10/30/2017	0.47

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
Franklin Synergy Bank 0.85 12/11/2017	35471TCH3	None	6/10/2016	248,000.00	248,000.00	0.850	246,168.97	0.850		12/11/2017	0.48
Goldman Sachs Bank 1 10/16/2017	38148JQX2	None	4/27/2015	240,000.00	239,520.00	1.000	238,603.80	1.069		10/16/2017	0.46
JP Morgan Chase Bank 1.1 7/15/2019	48125Y5L4	None	7/15/2016	249,000.00	249,000.00	1.100	249,408.60	1.100		7/15/2019	0.48
Marlin Business Bank 0.85 8/24/2017	57116ALG1	None	2/24/2016	248,000.00	248,000.00	0.850	246,785.69	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	244,040.83	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	239,494.01	0.900		5/19/2017	0.46
Pacific Premier Bank 0.9 12/5/2017	69478QDG2	None	6/3/2016	248,000.00	248,000.00	0.900	246,340.99	0.900		12/5/2017	0.48
Peoples State Bank of Newton 0.7 6/15/2017	712490AC5	None	6/15/2016	249,000.00	249,000.00	0.700	247,987.94	0.700		6/15/2017	0.48
Safra National Bank 0.7 11/29/2016	78658QSF1	None	11/30/2015	245,000.00	245,000.00	0.700	245,072.18	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	247,851.28	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	246,811.19	0.850		8/17/2017	0.48
Wells Fargo Bank 1.15 7/22/2019	9497486R3	None	7/20/2016	249,000.00	249,000.00	1.150	249,761.06	1.150		7/22/2019	0.48
Wex Bank 0.85 5/19/2017	92937CDE5	None	11/20/2015	245,000.00	245,000.00	0.850	244,405.18	0.850		5/19/2017	0.47
Sub Total / Average				6,846,000.00	6,845,520.00	0.900	6,831,052.88	0.902			13.15

Corporate Issues

American Express Credit 2.375 3/24/2017	0258M0DD8	Moodys-A2	5/25/2016	1,000,000.00	1,012,171.77	2.375	1,006,010.00	0.900		3/24/2017	1.94
Caterpillar Financial 1 3/3/2017	14912L5Z0	Moodys-A2	12/23/2014	1,313,000.00	1,307,603.57	1.000	1,313,078.78	1.190		3/3/2017	2.51
Chevron Corp 2.193 11/15/2019	166764AN0	Moodys-Aa2	2/26/2016	1,160,000.00	1,167,806.57	2.193	1,183,443.60	2.004		11/15/2019	2.24
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	1,102,685.50	0.890		2/15/2017	2.27
HSBC 4.875 8/24/2020	4042Q1AE7	Moodys-A1	5/17/2016	2,000,000.00	2,191,145.28	4.875	2,171,160.00	2.500		8/24/2020	4.21
IBM Corp 1.8 5/17/2019	459200JE2	Moodys-Aa3	3/18/2016	1,000,000.00	1,005,370.00	1.800	1,014,400.00	1.624		5/17/2019	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	1,005,720.00	1.400		8/15/2017	1.94
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	999,920.00	0.895		1/23/2017	1.93
	89236TCP8		3/16/2016	1,000,000.00	1,002,490.00	1.550	1,005,410.00	1.440		7/13/2018	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
Toyota Motor Credit 1.55 7/13/2018		Moodys-Aa3									
Toyota Motor Credit Corp 1.2 4/6/2018	89236TCX1	Moodys-Aa3	5/24/2016	1,000,000.00	1,000,360.00	1.200	1,000,290.00	1.180		4/6/2018	1.92
US Bankcorp 2.2 11/15/2016	91159HHB9	Moodys-A1	3/31/2015	900,000.00	920,304.00	2.200	900,324.00	0.797		11/15/2016	1.77
Sub Total / Average				12,458,000.00	12,799,584.54	2.589	12,702,441.88	1.456			24.58
LAIF											
LAIF LGIP	LGIP1002	None	4/30/2011	6,904,499.42	6,904,499.42	0.550	6,904,499.42	0.550	N/A	N/A	13.26
Sub Total / Average				6,904,499.42	6,904,499.42	0.550	6,904,499.42	0.550			13.26
Treasury											
T-Bond 0.5 3/31/2017	912828J92	Moodys-Aaa	3/9/2016	1,000,000.00	998,417.43	0.500	1,000,080.00	0.650		3/31/2017	1.92
T-Note 0.875 1/15/2018	912828H37	Moodys-Aaa	6/1/2015	1,000,000.00	1,001,560.00	0.875	1,001,990.00	0.815		1/15/2018	1.92
T-Note 0.875 11/15/2017	912828G20	Moodys-Aaa	6/24/2015	1,000,000.00	1,001,060.00	0.875	1,001,910.00	0.830		11/15/2017	1.92
Sub Total / Average				3,000,000.00	3,001,037.43	0.750	3,003,980.00	0.765			5.76
Total / Average				51,718,339.27	52,064,091.24	1.374	51,966,764.03	1.246			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's Internal Retiree Medical Fund
Quarterly Report**

For Period Ended 9/30/16

Fund Balance 6/30/16:		(\$13,097.13)
Revenues:		
FY17 Budget Allocation		583,771.00
Expenses:		
Quarterly Net Medical Reimbursements		(3,590.11)
Transfers Out:		
8/19/16 CalPERS OPEB Trust Annual Required Contrib. (ARC) (payment #4 of 4)		(145,942.75)
Ending Fund Balance 9/30/16:		\$421,141.01



Market Value Summary:

	QTD Current Period	Fiscal Year to Date
Beginning Balance	\$4,656,889.57	\$4,656,889.57
Contribution	145,942.75	145,942.75
Distribution	(97,361.12)	(97,361.12)
Transfer In	0.00	0.00
Transfer Out	0.00	0.00
Investment Earnings	133,444.87	133,444.87
Admin Expense	(599.94)	(599.94)
Investment Expense	(438.64)	(438.64)
Other	0.00	0.00
Ending Balance	\$4,837,877.49	\$4,837,877.49
YTD Accrual	97,361.12	97,361.12
Grand Total	\$4,935,238.61	\$4,935,238.61

Unit Value Summary:

	QTD Current Period	Fiscal Year to Date
Beginning Units	336,484.877	336,484.877
Unit Purchases from Contributions	10,005.156	10,005.156
Unit Sales for Withdrawals	(6,763.415)	(6,763.415)
Unit Transfer In	0.000	0.000
Unit Transfer Out	0.000	0.000
Ending Units	339,726.618	339,726.618
Period Beginning Unit Value	14.129166	14.129166
Period Ending Unit Value	14.527089	14.527089

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 09/30/2016

Union Sanitary District

Entity #: SKB7-6011550262



Date	Description	Amount	Unit Value	Units	Check/Wire	Notes
07/01/2016	YE Accrual Distribution Reversal	\$97,361.12				
08/04/2016	Distribution	(\$97,361.12)	\$14.395260	(6,763.415)		
08/23/2016	Contribution	\$145,942.75	\$14.586754	10,005.156	WIRE 2016081900096 533	

Client Contact:
CERBT4U@CalPERS.ca.gov

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

Capital Improvement Program

Thickener Control Building Improvements Project – The contractor completed the installation of all permanent underground and overhead process pipelines that feed into the new Thickener Control Building. The new splitter box structure was placed into service on September 19th. Demolition of corresponding temporary bypass system pipelines is in progress.

Fremont and Paseo Padre Lift Stations Improvements Project – The contractor completed the demolition and removal of all existing electrical equipment inside the Paseo Padre Lift Station control building and the lift station is powered by the contractor's temporary electrical system. Lift Pump No. 1 was removed and Wet Well No. 1 received new Enduraflex coating.

MCC and PLC Replacement Project, Phase 3 – The contractor completed the installation of wiring for the new PLC in the West Blower Room. The equipment will be switched over to the new PLC in October and November.

Plant Facilities Improvements Project – The contractor isolated and cleaned about 250 feet of the 60" primary effluent pipe in preparation of lining repairs. The repairs for this first section of pipe will be completed in October. The contractor has completed the concrete walkway repairs between the EBDA Pump Station and the south final effluent screen.

Chemical Tanks and Piping Replacement Project – The contractor began the equipment submittals process for design engineer's review.

Aeration Blower Project – The contractor continued to work on the final punchlist.

Alvarado-Niles Road Sanitary Sewer Rehabilitation Project – The contractor completed the installation of sectional lining at Site B (Alvarado-Niles Road at Western Ave). The contractor also completed the main bypass system removal, site restoration, and pavement grind and overlay. Punchlist work to be completed in October.

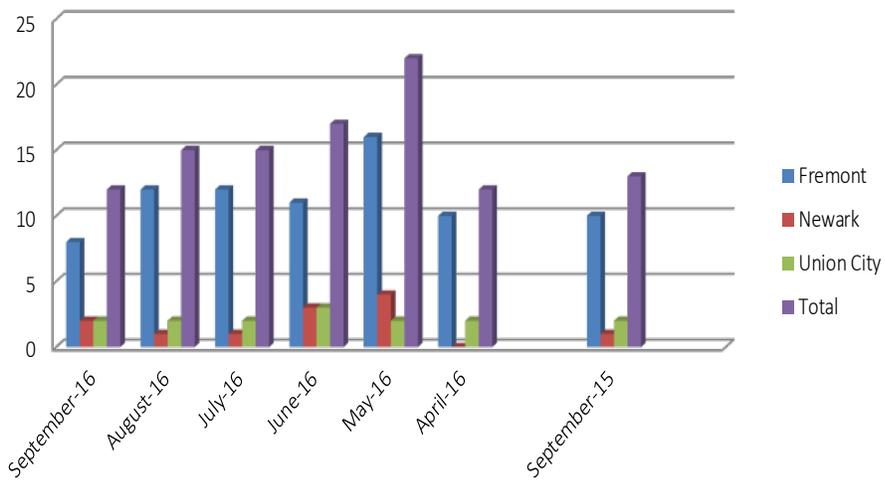
Pine St. Easement Improvements Project – The contractor completed the project, including the carrier pipe spot repair, abutment construction, pier connection welding, backfill & compaction, site restoration, and access road grading.

Newark Backyard Sanitary Sewer Relocation Project, Phase 3 – The contractor completed all the lateral connections to switch properties to the new sewer main. Site restoration including final paving is in progress.

Customer Service

Trouble Calls dispatched from the Front Desk during business hours:

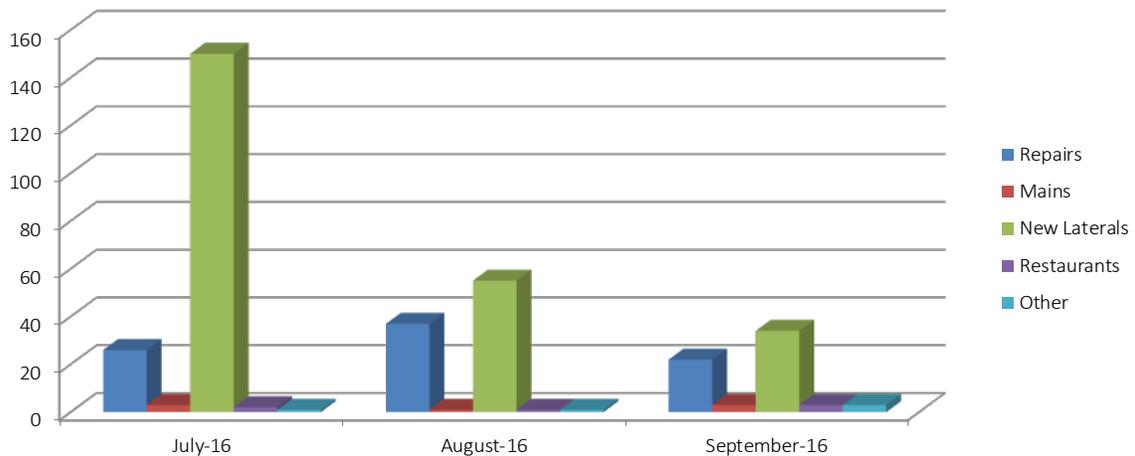
Month	Fremont	Newark	Union City	Total
September-16	8	2	2	12
August-16	12	1	2	15
July-16	12	1	2	15
June-16	11	3	3	17
May-16	16	4	2	22
April-16	10	0	2	12
September-15	10	1	2	13
6-Month Total				93



Sewer Permits Issued

Month	Repairs	Mains	New Laterals	Restaurants	Other
September-16	22	3	34	3	3
August-16	37	1	55	1	1
July-16	26	3	150	2	1

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



Communication

- Continued updates to Union City staff and USD website regarding Alvarado Niles Road project activities
- Completed final preparation activities for new website “Go Live”; monitored switch to new site
- Continuing development of District virtual tour video
- Posted information to social media accounts regarding Coastal Cleanup, Pollution Prevention Week, Science in the Park, ACWD tour information, Imagine a Day Without Water
- Developed and distributed press release regarding USD’s new website
- Posted Imagine a Day Without Water info to News & Events page of District website
- Continued research regarding social media management practices and tools
- Planning activities with CASA communications workgroup for regional CASA/CWEA seminars – will co-present at media relations/crisis communications sessions in October 2016
- Monitored California Consumer Product Safety Commission Listserve for medicine take-back information

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 90 Stormwater (Urban Runoff), and 36 FOG (restaurant) inspections. During this reporting period, Inspectors identified 19 Stormwater and 8 FOG enforcement actions. Seven (7) of the Stormwater enforcements resulted in administrative fines ranging from \$100 to \$500. Three (3) of the administrative fines were for illicit discharges, and a total of 5 were for repeated violations.

Urban Runoff Inspections and Enforcements

September 2016	No. of UR Inspections	VW	WL	NOV	AF	LA	Total Enforcements	No. of Illicit Discharge/s	4
	90	4	0	8	8	0	20	% enforcement	22%

FOG Inspections and Enforcements

September 2016	No. of FOG Inspections	VW	WL	NOV	AF	NOD	Total Enforcements	% enforcement	22%
	36	3	5	0	0	0	8		

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
32 of 156 15	15	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.

Pending Permits

New Industrial/Groundwater Permits	Groundwater/Temporary
TE Connectivity	PG&E Newark Substation
Mission Linen	
Lam Research CA3E	
Seagate FRC (Fremont Research Center)	
Littlefuse Inc.	
Chemetal	

Permits Issued

Company Name	Date Permit Issued
None	

Industrial Closures

Company Name	Date of Closure
Seagate Bldg. 1 and 3 (Pending)	12/2016

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.- Specialty parts cleaning	None	Fremont	Fluoride	210 mg/L	Hazardous Waste Limit 180 mg/L	NOV
Kerry Ingredients and Flavours	None	Union City	Oil & Grease (Animal & Vegetable)	565	USD Local Limit of 300 mg/L	NOV
Hayward Quartz #2	None	Fremont	pH	2.8 (pH units)	USD Local Limit of pH between 6.0 to 12.0 (pH units)	NOV

(1) WL – Warning Letter

C&D – Cease and Desist Order

NOV – Notices of Violation

SNC – Significant Non Compliance

AO – Administrative Order

EM – Enforcement Meeting

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

Activity	Date of Event	Attendees
MEDS Coalition meeting	9/19/2016	Doug Dattawalker
Industrial Advisory Committee (Restaurant and Cafeteria Grease Interceptor Requirements)	9/28/2016	IAC Members, Inspectors
Tri State Seminar	9/20-22/2016	Aaron Robles, Victor Padilla

Engineering/Construction

No. of projects under construction: 9

	Construction Projects	Capital (\$1000)	Scheduled Completion	Completed Scope	Completed Time	Comments for Sept. 2016 Activities
1.	Thickener Control Building Improvements Project – Curtis	\$9,990	12/16	85%	93%	The new splitter box structure was placed into service on September 19 th
2.	Fremont and Paseo Padre LSs Improvement - Derek	\$2,801	10/16	60%	98%	Lift Pump No. 1 at Paseo Padre LS was removed and Wet Well No. 1 received new coatings.
3.	MCC and PLC Replacement Project, Phase 3 – Thomas	\$869	12/16	76%	80%	Wiring for the new PLC in the West Blower Room was installed.
4.	Plant Facilities Improvements Project – Thomas	\$1,570	1/17	58%	72%	About 250 feet of the 60" primary effluent pipeline were isolated and cleaned in preparation of lining repair. Concrete walkway repairs at EBDA Pump Station were completed.
5.	Chemical Tanks and Piping Replacement Project – Thomas	\$2,102	10/17	0%	11%	Equipment submittals were provided for review.
6.	Aeration Blower Project – Curtis	\$1,065	8/16	100%	100%	Punchlist work is in progress.
7.	Alvarado-Niles Road SS Rehabilitation Project – Chris E.	\$3,283	10/16	91%	91%	Bypass system removal, site restoration, and pavement grind & overlay complete.

	Construction Projects	Capital (\$1000)	Scheduled Completion	Completed Scope	Completed Time	Comments for Sept. 2016 Activities
8.	Pine St. Easement Improvements – Chris E.	\$189	10/16	98%	98%	Project complete, including pipe spot repair, abutment construction, pier welding, backfill & compaction, site restoration, and access road grading.
9.	Newark Backyard SS Relocation Project Phase 3 –Andrew/Rollie	\$2,107	09/16	92%	100%	Lateral connections to the new sewer main were completed; site restoration and final paving ongoing.

Design/Study

No. of projects in design/study phase: **6**

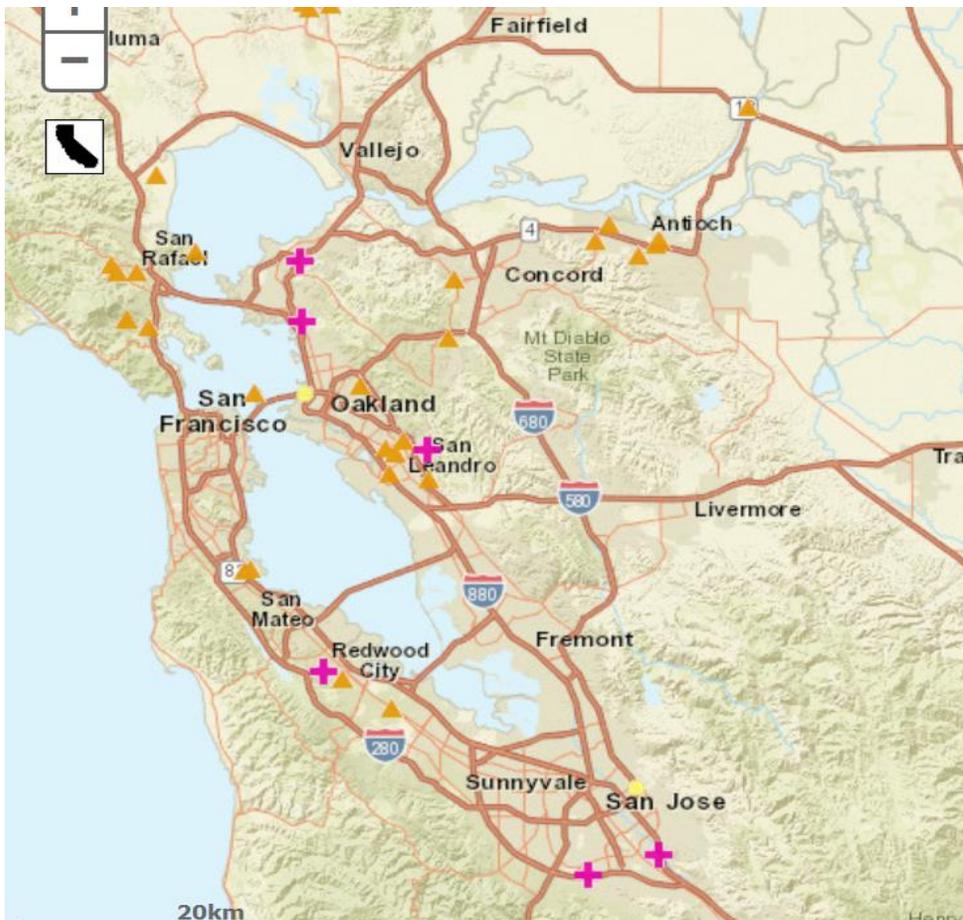
	Design/Study Projects	Capital (\$1000)	Scheduled Completion	Completed Scope	Completed Time	Comments for Sept. 2016 Activities
1.	Alvarado Basin Master Plan Flow Monitoring and Condition Assessment - Rollie	\$90	6/16	100%	133%	Final report completed. Capacity assessment portion is next.
2.	Plant Solids System / Capacity Assessment – Curtis	\$238	6/16	90%	100%	Chapter 4 – Energy Neutrality Analysis and Chapter 5 – Regulatory Requirements were submitted on September 21 st .
3.	Recycled Water Feasibility Study Update – Chris E.	\$130	10/16	94%	94%	Draft report review complete. Final report in progress.
4.	Sludge Degritter System Project – Kevin	\$203	08/16	100%	100%	Construction contract was awarded.
5.	Headworks Knife Gate Valves 1-3 Replacement – Kevin	In-house	10/16	80%	80%	90% design is in progress
6.	Cogeneration Building HVAC Improvements Project - Derek	\$27	09/16	100%	100%	Final design is complete. Awaiting resolution of current Cogen issues.

COLLECTION SERVICES
ACTIVITIES REPORT
September 2016

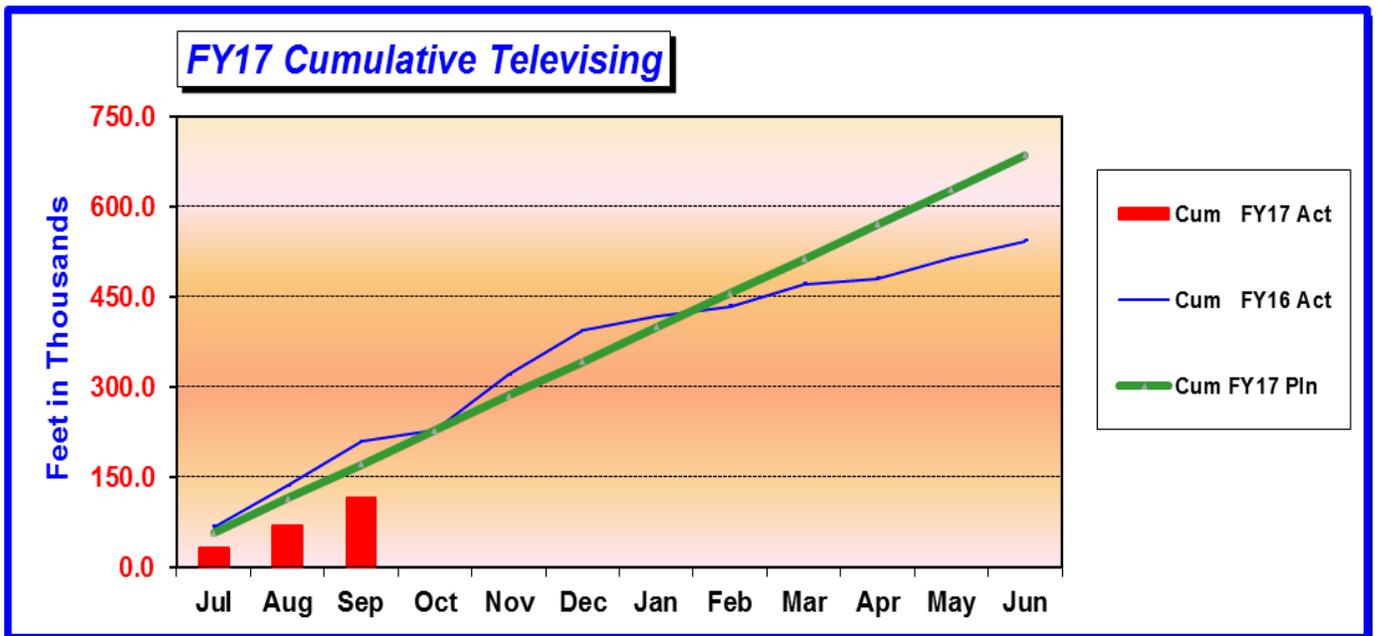
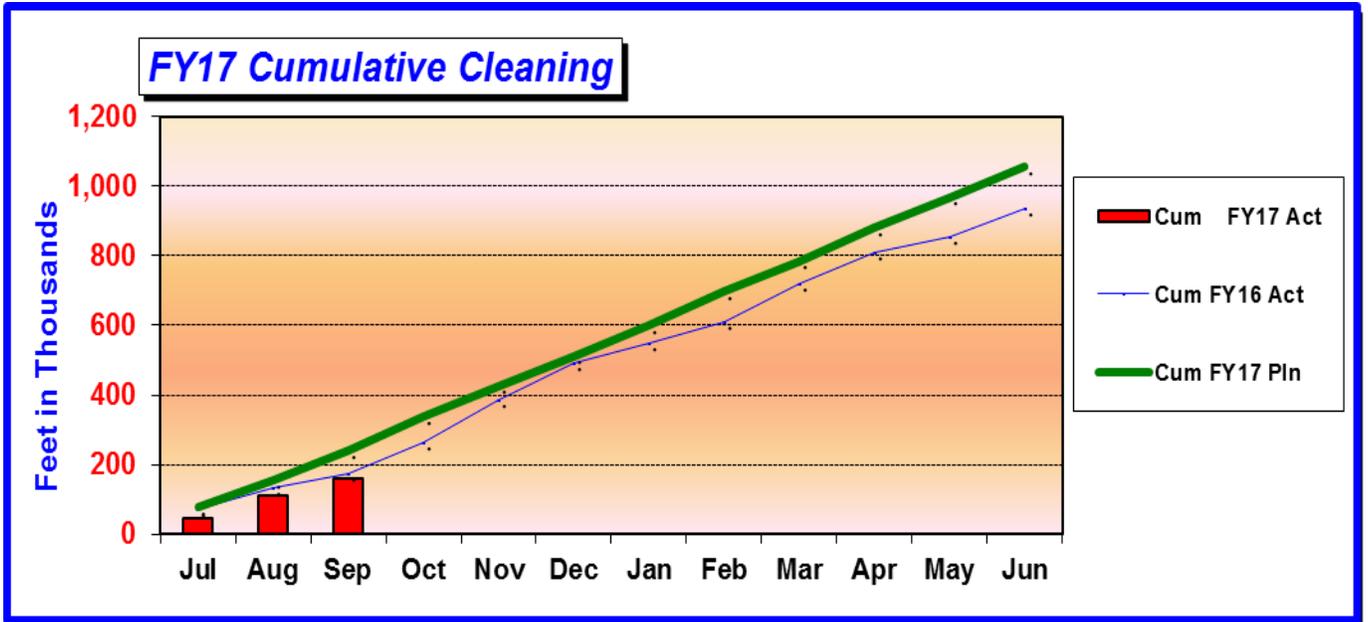
Progress/Accomplishments

- No spills (as of 9/31/16 it has been 103 days since last spill)
- Completed 10.0 miles of cleaning of sewer lines in September
- Completed 9.0 miles of televising of sewer lines in September
- Responded to 20 service request calls in September
- Completed a total of 41 main repairs in September
- Hosted CWEA Vendor Fair
- Trainings
 - Industrial Ergonomics Refresher
 - Confined Space
 - CPR
 - Fall Protection

Bay Area Spills for Same Time Period

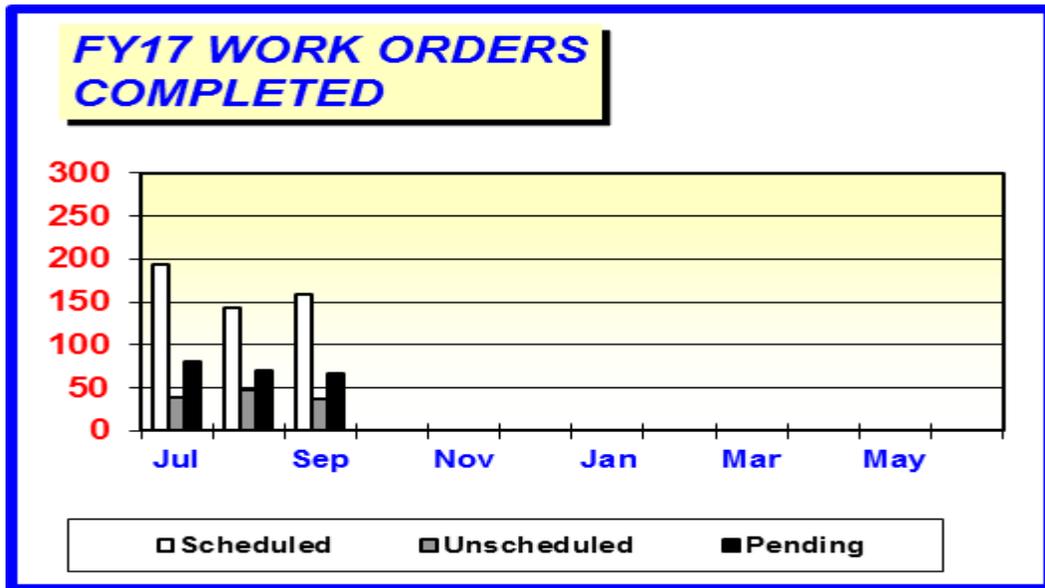


Performance Measures

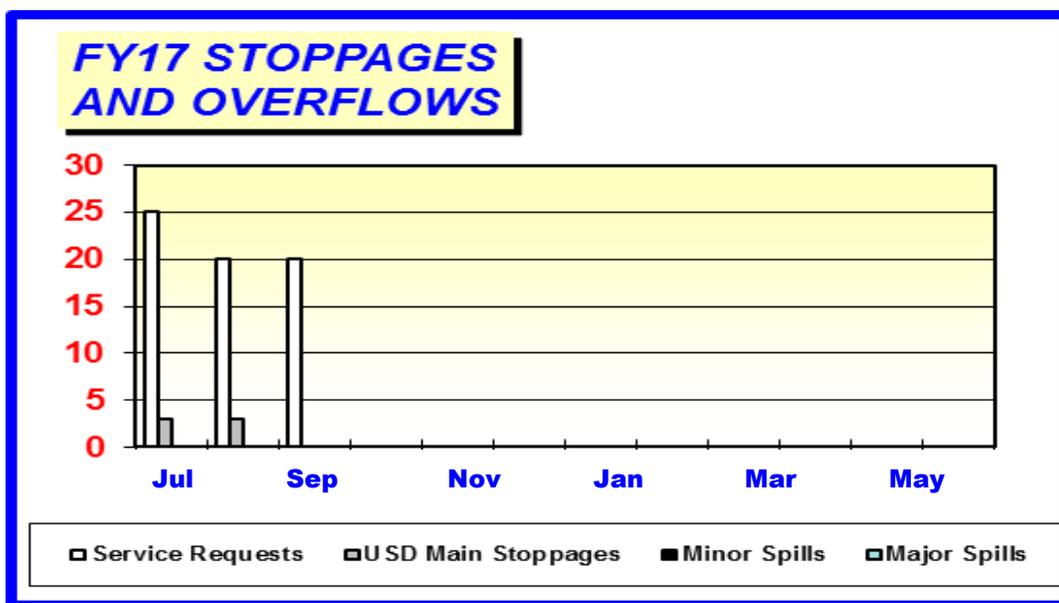


Other Collection Services Status Data:

Support Team Work Order Status:



C/S Maintenance Status:



**Fabrication, Maintenance and Construction
Activities Report
September 2016**

Progress/Accomplishments

- Completed 89% of preventive maintenance activities for the month of September
- Completed 100 corrective maintenance work orders for the month of September
- Co-Gen No. 1 commisioning
- EBDA south drive base fabrication and installation
- IPS Head Gate No. 1 hydraulic cylinder replacement
- Piian System upgrade and addition of nozzles to secondary clairifier railing

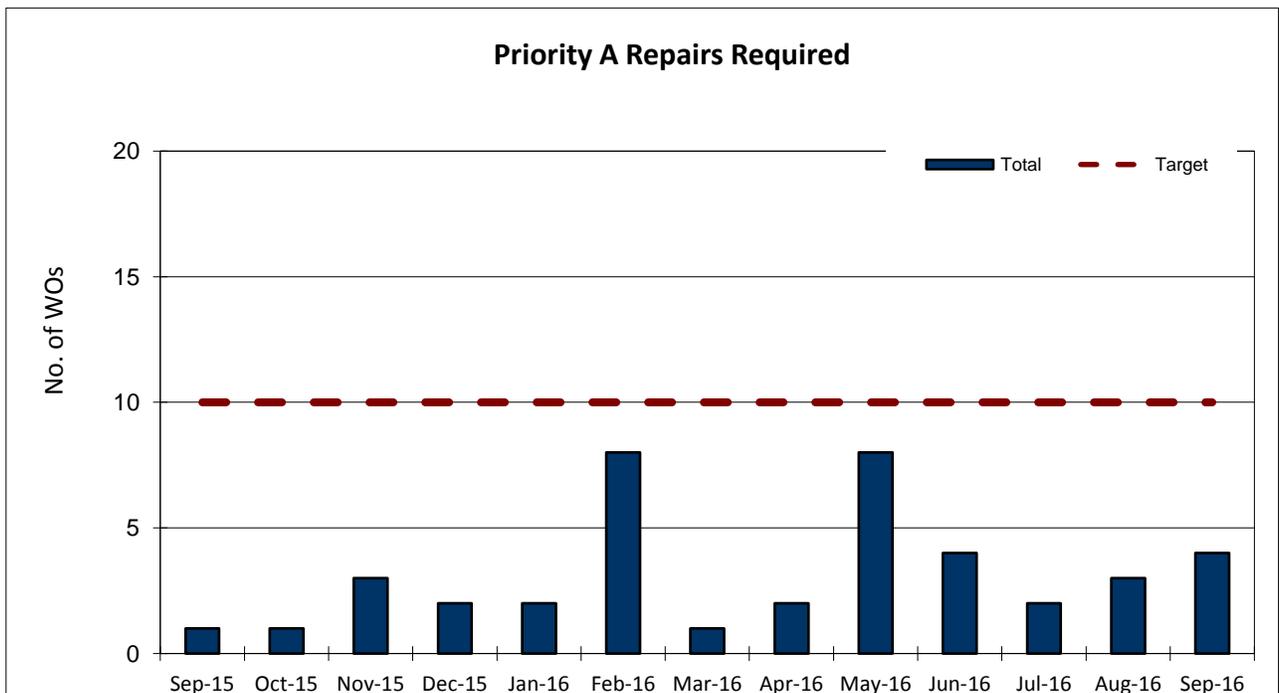
Future Planning

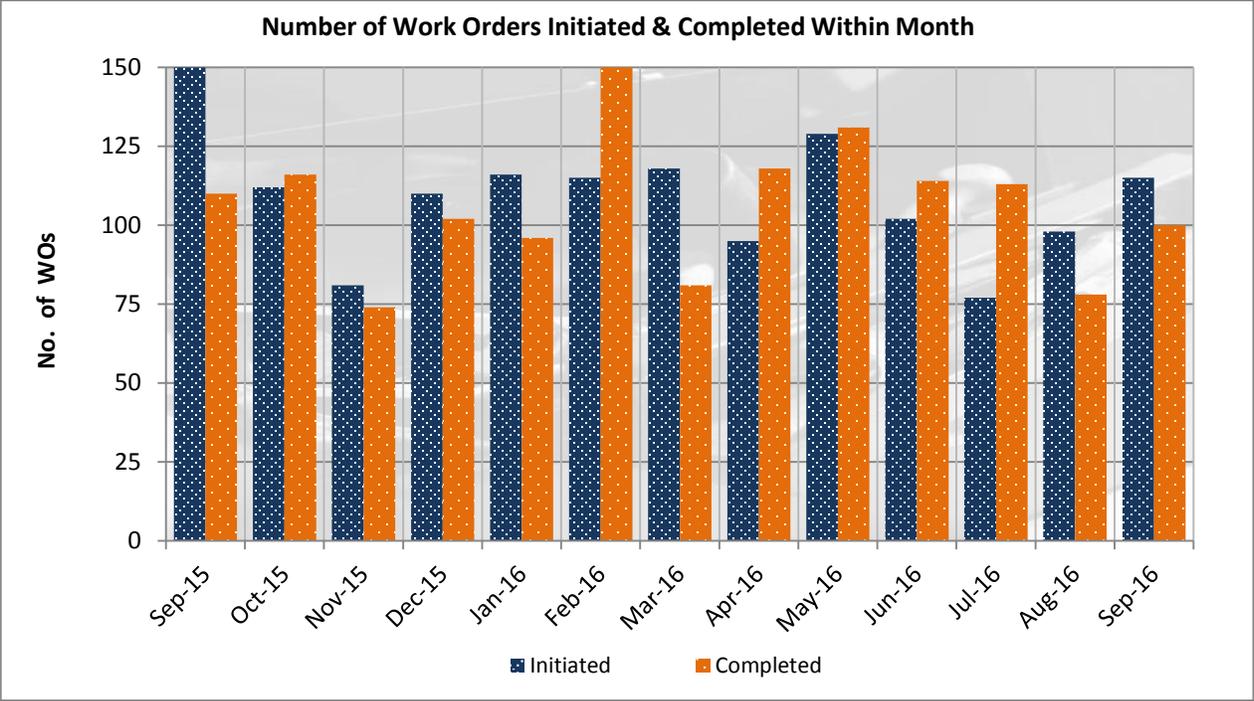
- IPS Head Gate No. 2 hydraulic cylinder removal, overhaul, and replacement
- APS Pump No. 4 installation
- Sample Pump #7 overhaul
- Fremont Lift Station functional testing and turnover back to FMC
- Co-Gen testing and operation

Other

- WGM and 4 FMC staff members attended the Tri-State Seminar
- All FMC staff became CPR certified

Performance Measurements





**Treatment & Disposal
Activities Report
September 2016**

Progress/Accomplishments

- Maintained 100% compliance with NPDES permits.
- Completed 99% preventive maintenance activities for the month of September.
- Provided initial 30-day training to two new Plant Operator 3 trainees.
- Began operational testing of new thickener influent control box in support of the CIP Thickener Control Building Improvements Project.
- Completed operational testing of the new site waste pump station electrical and control equipment in support of the CIP MCC/PLC Phase 3 Improvements Project.
- Performed extensive scum and sludge line cleaning of temporary pipelines in cooperation with Collections in support of the CIP Thickener Control Building Improvements Project.
- Commissioning of the new Laboratory ICP was completed.
- The plant gained ELAP approval for conducting chlorine residual testing using the DPD method.
- Completed an evaluation of Cogeneration permitting by York Engineers.
- Supported the CIP solids capacity study. Reviewed the energy neutrality alternatives and provided comments.
- Hypochlorinated the southern portion of the EBDA forcemain to address EBDA's concern over high enterococcus concentrations at the Marina Dechlorination facility. Began batch dechlorinating feed to the Hayward Marsh.

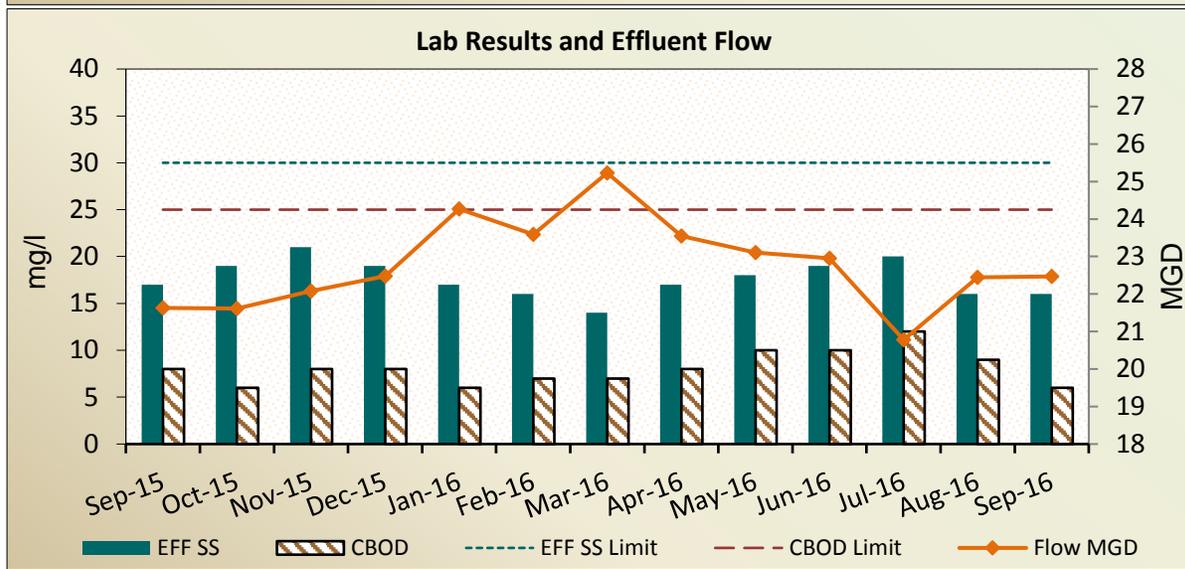
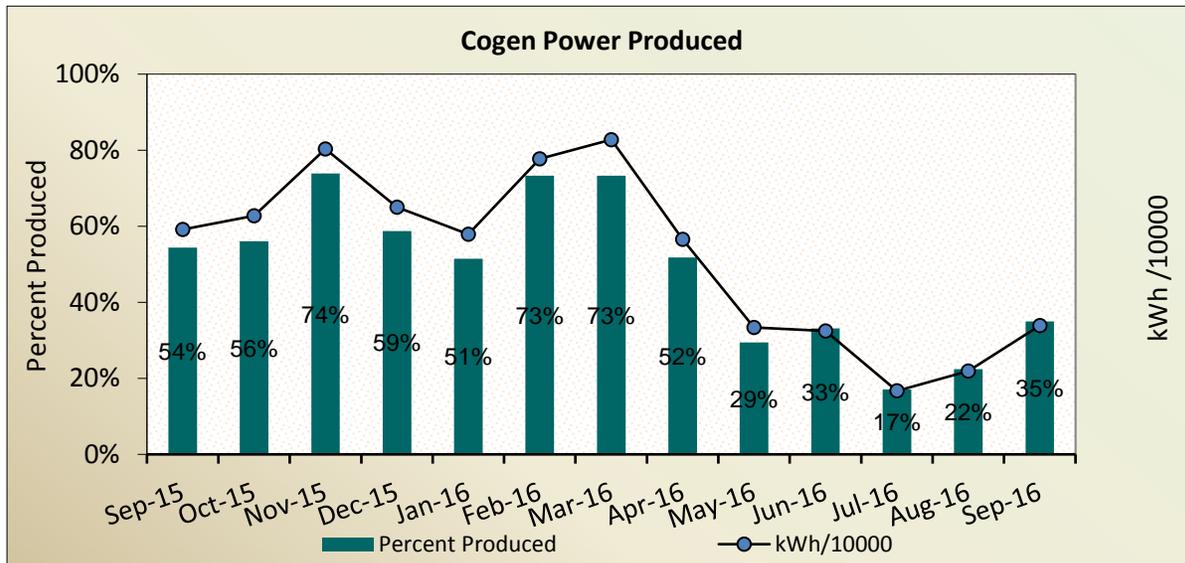
Future Planning

- Discuss the York cogeneration permitting assessment with CIP and agree on next steps.
- Finalize the draft codigestion pilot report.
- Meet with EBDA to discuss and agree to a method of billing EBDA for power.
- Attend the RMP annual meeting in October 2016.

Other

- Cogen system produced 35% of power consumed for the month of September.

Performance Measurements



USD's Final Effluent Monthly Monitoring Results				
Parameter	EBDA Limit	Jul-16	Aug-16	Sep-16
Copper, µg/l	78	4.0	5.0	6.3
Mercury, µg/l	0.066	0.00282	0.00271	0.00226
Cyanide, µg/l	42	< 3	< 3	< 3.0
Ammonia- N, mg/L (Range)	130	37 - 42	36 - 44	35 - 46
Dioxin-Toxicity Equivalent (TEQ), µg/l	2.8×10^{-8}	not tested	not tested	not tested
Fecal Coliform, MPN/100ml (Range)				
• 5-Sample Geometric Mean	500	21 - 72	10 - 50	12 - 27
• 11-Sample 90th Percentile	1100	33 - 127	36 - 127	30 - 40
Enterococci *				
• 5-Sample Geometric Mean	242	< 10 - 63	< 10 - 30	< 10 - 10

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.

**Directors**

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: October 17, 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
Thomas Lam, Associate Engineer

SUBJECT: Agenda Item No. 8 - Meeting of October 24, 2016
Authorize the General Manager to Execute Task Order No. 2 with Degenkolb Engineers for the Seismic Vulnerability Assessment, Phase 3

Recommendation

Staff recommends the Board authorize the General Manager to execute Task Order No. 2 with Degenkolb Engineers in the amount of \$105,345 for the Seismic Vulnerability Assessment, Phase 3.

Background

The FY 2014 budget identified a Special Project to conduct a seismic vulnerability assessment for all District structures and major pipelines. Staff identified 86 structures currently operated and maintained by the District and 41 major pipelines for assessment.

Phase 1 – Task Order No.1

On November 25, 2013, the Board authorized the General Manager to execute an agreement and Task Order No. 1 with Degenkolb Engineers (DE) in the amount of \$148,399 for Phase 1 of the Seismic Vulnerability Assessment. The Phase 1 scope of services included the following tasks:

1. Define the seismic performance criteria, including the seismic hazard or scenario and the level of service desired after a major seismic event.

2. Perform preliminary (Tier 1) seismic evaluations of 25 representative structures and determine their potential seismic deficiencies, expected downtime, and potential damages.
3. Assess vulnerability of force mains and plant underground pipelines and develop recommendations to address any deficiencies.

At the conclusion of the Phase 1 assessment, DE found that some of the structures and pipeline sections critical to delivering service to the system are seismically vulnerable and damage could be expected following a large seismic event. Staff determined that protecting loss of life during the seismic event and restoring a minimal level of service shortly following a seismic event should be the primary targets of seismic mitigation efforts. DE's Phase 1 report rated structures and pipeline sections based on seismic vulnerability and relative importance to inform a targeted mitigation effort. The most critical structures to retrofit are structures with significant occupancy and seismically vulnerable structures with precast concrete roofs. The force main pipelines are expected to perform relatively well in a seismic event except at the Alameda Creek crossing.

Staff will include a project in the FY 18 budget to conduct a geotechnical investigation along the force mains at the Alameda Creek crossing to better assess the liquefaction concerns near Alameda Creek, and identify mitigation measures.

Phase 2 – Amendment No. 1 to Task Order No. 1

On January 26, 2015, staff executed Amendment No. 1 to Task Order No. 1 with DE in the amount of \$62,336 to perform a detailed (Tier 3) seismic evaluation of the most critical structures identified during Phase 1. The four structures were the Administration, Field Operations, Plant Operations Control, and Primary Clarifiers 1-4 Buildings. In this evaluation, DE identified the seismic deficiencies of the four buildings and the recommended strengthening/mitigation measures. DE prepared a construction cost estimate of \$11.5 million (2016 dollars) to retrofit the four buildings. Staff included the building retrofit projects in the 20-year CIP budget.

On March 21, 2016, staff presented the conclusions and recommendations from the Phase 1 and Phase 2 assessments during a workshop with the Board. On May 23, 2016, the Board accepted the final assessment reports of both phases of the Seismic Vulnerability Assessment from DE.

Phase 3 – Task Order No. 2

In the FY 2017 budget, staff included a special project to perform the next phase of the Seismic Vulnerability Assessment. The objective of Phase 3 is to assess the structures that are critical in conveying wastewater at the Plant, as well as one remote pump station.

Scope of Services

DE's scope of services will include preliminary (Tier 1) seismic evaluations of four structures: Headworks Building, Newark Pump Station, Aeration Basins 5-7, and Primary Digester 3. The evaluation will include identifying the potential seismic deficiencies, expected downtime, and potential damages.

Staff included the assessment of Primary Digester 3 to determine whether there are any potential seismic deficiencies that could be addressed during the design phase of the upcoming Digester No. 3 Rehabilitation Project. The design phase of this project is scheduled to begin in late 2016 and the rehabilitation is anticipated to occur in 2017.

The scope of services will also include detailed (Tier 3) seismic evaluations of five structures: Aeration Basins 1-4, Secondary Clarifiers 1-4, Secondary Clarifiers 5-6, EBDA Surge Tower, and Chlorine Contact Channel. The evaluation will include identifying the seismic deficiencies, developing a seismic strengthening scheme, and providing an estimate to retrofit the structures.

The attached Table 1 shows the structures that were included in the Phases 1 and 2 of the assessment and the structures in Phase 3.

Lastly, the scope of services will include an evaluation of the plant's major underground piping to verify the presence of flexible couplings at the piping connection points to the structures. The flexible couplings allow the pipe sections to be slightly displaced relative to the structures during earthquake seismic event and not pull apart and cause a leak to develop in the piping system. Staff will review the drawings to determine if flexible couplings are present at the pipe's connection to the structure, and DE will perform an evaluation to determine the anticipated displacement during a seismic event.

The budget for the task order's scope of services is summarized as follows:

Task	Description	Fee
1	Tier 1 Seismic Evaluation	\$18,560
2	Tier 3 Seismic Evaluations	\$80,110
3	Plant Underground Piping Evaluation	\$1,470
4	Seismic Assessment Report	\$4,455
	Reimbursable Expenses	\$750
	Total Not-to-Exceed Fee	\$105,345

Below is a summary of the task orders and amendments with DE under the project agreement:

Task Order / Amendment	Not to Exceed Amount	Board Authorization Required?	District Staff Approval
Task Order No. 1	\$148,399	Yes	Richard Currie
Amendment No.1 to Task Order No. 1	\$62,336	No	Paul Eldredge
Task Order No. 2	\$105,345	Yes	Paul Eldredge
Total	\$316,080		

Staff has reviewed DE’s proposed cost and found it to be reasonable. All work under this task order is expected to be completed by the end of FY 2017.

Staff recommends the Board authorize the General Manager to execute Task Order No. 2 with Degenkolb Engineers in the amount of \$105,345 for the Seismic Vulnerability Assessment, Phase 3.

PRE/SEG/RC/TL:ks

Attachments: Table 1 – Summary of Structures in the Seismic Vulnerability Assessment
 Task Order No. 2

Table 1
Summary of Structures in Seismic Vulnerability Assessment

Phase 1 Structures	Phase 2 Structures	Phase 3 Structures	
Preliminary (Tier 1) Seismic Evaluation	Detailed (Tier 3) Seismic Evaluation	Preliminary (Tier 1) Seismic Evaluation	Detailed (Tier 3) Seismic Evaluation
Administration Building	Administration Building	Headworks Building	Aeration Basins 1-4
EBDA Surge Tower	Field Operations Building	Primary Digester 3	Secondary Clarifiers 1-4
Covered Vehicle Storage	Control Building	Newark Pump Station	Secondary Clarifiers 5-6
Main Electrical Distribution Building	Primary Clarifiers 1-4	Aeration Basins 5-7	EBDA Surge Tower
Control Building			Chlorine Contact Channel
Degritter Building			
Alvarado Influent Valve Vault			
Aeration Basins 1-4			
Secondary Clarifiers 1-4			
Thickener 1			
Heating and Mixing Building 2			
Chlorine Contact Tank			
Lift Station 1			
Primary Digester 5			
Primary Clarifiers 1-4			
Alvarado Influent Pump Station			
Primary Clarifiers 5-6			
FMC Building			
Secondary Digester 1			
Irvington Pump Station			
EBDA Pump Station			
Field Operations Building			
Generator Building No. 2			
Control Box No. 3			
Paseo Padre Lift Station			

**Seismic Vulnerability Assessment
Project No 300-415**

TASK ORDER NO. 2

to

AGREEMENT

BETWEEN

UNION SANITARY DISTRICT

AND

DEGENKOLB ENGINEERS

FOR

PROFESSIONAL SERVICES

Dated November 25, 2013

1. PURPOSE

This Study is Phase 3 of the Seismic Vulnerability Assessment Program for Union Sanitary District (USD). Phase 3 consists of preliminary seismic evaluations (Tier 1) of four structures, detailed seismic evaluations (Tier 3) and strengthening concepts of five structures and evaluation of plant underground piping at non-flexible joints.

2. PROJECT COORDINATION

All work related to this task order shall be coordinated through the District's Project Manager, Thomas Lam.

3. SCOPE OF SERVICES

The task numbers in this Scope of Services are associated with the cost data presented in Exhibit A.

Task 1 - Tier 1 Seismic Evaluations of the following four structures:

1. Headworks Building
2. Primary Digester No. 3
3. Newark Pump Station
4. Aeration Basins 5-7

- Engineer shall perform a visit to the site to observe visible structural elements and their condition.
- Engineer shall perform a Tier 1 seismic evaluation of each building in accordance with ASCE 41-13.
- Engineer shall perform preliminary seismic evaluations of the four structures and determine seismic deficiencies and provide a seismic rating score for each of the structures for a given seismic hazard and performance level.

Task 2 - Tier 3 Seismic Evaluations and Strengthening Concepts of the following five structures:

1. Aeration Basins 1-4
2. Secondary Clarifiers 1-4
3. Secondary Clarifiers 5 and 6
4. EBDA Surge Tower
5. Chlorine Contact Channel

- Engineer shall perform a detailed Tier 3 linear static analysis of each building before and after strengthening in accordance with ASCE 41-13.
- Engineer shall develop one conceptual seismic strengthening scheme for each structure.
- Engineer shall meet with the District to determine the acceptable parameters and constraints for the strengthening scheme.
- Engineer shall brainstorm multiple schemes and through this process, from the perspective of cost, disruption and schedule, shall narrow it down to one strengthening scheme.
- Engineer shall perform one site visit to determine the appropriateness of the proposed strengthening scheme and adjust

recommendations as required. Engineer will not perform any exploratory demolition during this phase.

- Engineer shall prepare a detailed seismic evaluation report which will include conceptual strengthening plans, details and a narrative describing the strengthening scheme. Engineer's drawings will be CAD drafted on 11"x17" sheets. Engineer's drawings and details will have sufficient detail for a contractor to provide a rough order of magnitude cost estimate.
- Engineer shall work with Cumming to prepare a rough order of magnitude cost estimate for the seismic strengthening work.

Task 3 – Plant Underground Piping Evaluation

- One of the recommendations of Engineer's Phase 1 report was to evaluate the plant's major buried piping to verify if flexible connections are present at the point of connection to the plant structures. The District will review the original drawings to determine if those flexible connections are present. At pipe joint where there is no flexible connection, Engineer shall perform an evaluation to determine its anticipated displacement during a seismic event. An allowance is included for the geotechnical engineering subconsultant to perform the evaluation.

Task 4 - Seismic Assessment Report

- Engineer shall provide a draft written report following the same format as Engineer's Phase 1 and Phase 2 reports with findings, seismic upgrade recommendations, prioritization of recommendations and planning-level cost estimates.
- Engineer shall provide the final report that will incorporate the responses to the District's comments on the draft report.

4. DELIVERABLES

The Engineer shall submit a detailed draft and final report of its findings. The report is expected to include copies of the calculations performed, maps, charts, and figures created for the analysis and a table summarizing seismic assessment risk scores and planning level cost estimates. The report shall include an executive summary with seismic upgrade recommendations, prioritization of recommendations and planning-level cost estimates. The final report shall incorporate the responses to the District's comments on the draft report.

The Engineer shall submit the final (reports, technical memoranda, and bid documents in both Word and .pdf formats; drawings in the latest AutoCAD version; other deliverables required for the project) to the District on a CD-ROM.

5. NOT USED

6. NOT USED

7. PAYMENT TO THE ENGINEER

Payment to the Engineer shall be as called for in Article 2 of the Agreement. The not-to-exceed amount of Task Order No. 2 shall be \$105,345. The billing rate schedule is generally comparable to a labor multiplier of approximately 3.22. A summary of the anticipated distribution of cost and manpower between tasks is shown in Exhibit A.

The following table summarizes the previously-executed and proposed task orders and amendments under the Agreement:

Task Order / Amendment	Not to Exceed Amount	Board Authorization Required? (Yes/No)	District Staff Approval
Task Order No. 1	\$148,399	Yes	Richard Currie
Amendment No.1 to Task Order No. 1	\$62,336	No	Paul Eldredge
Task Order No. 2	\$105,345	Yes	Paul Eldredge
Total	\$316,080		

6. TIME OF COMPLETION

All work defined in this Task Order shall be complete within 180 calendar days after the execution of this Task Order and subject to the conditions of Article 3 of this Agreement.

9. KEY PERSONNEL

Engineering personnel assigned to this Task Order No. 2 are as follows:

<u>Role</u>	<u>Key Person to be Assigned</u>
Project Manager/Structural Lead	Roger Parra
Cost Consulting	Colin Scott
Geotechnical Expert	Dave Mathy

Key personnel shall not be changed except in accordance with Article 8 of the Agreement.

IN WITNESS WHEREOF, the parties hereto have made and executed this Task Order No. 2 as of October ____, 2016 and therewith incorporate it as part of the Agreement.

DISTRICT

ENGINEER

Union Sanitary District

DEGENKOLB ENGINEERS

By: _____
Paul R. Eldredge, P.E.
General Manager/District Engineer

By _____
Roger S. Parra
Principal

Date: _____

Date: _____

Seismic Vulnerability Assessment, Phase 3, Exhibit A

		Degenkolb Engineers						Cumming		DCM Consulting		Direct Costs	Professional Fees Totals		
		Roger Parra Principal		Design Engineer		CAD		Degenkolb Totals		Cost Estimator				Geotechnical	
		Hours @	\$235	Hours @	\$165	Hours @	\$135	Hours @	\$175	Hours @	\$210				
PHASE 3: Task 1 - TIER 1 SEISMIC EVALUATIONS															
1.1	Newark Pump Station	4	\$940	20	\$3,300	0	\$0	24	\$4,240		\$0		\$0	\$4,240	
1.2	Headworks	6	\$1,410	24	\$3,960	0	\$0	30	\$5,370		\$0		\$0	\$5,370	
1.3	Primary Digester No. 3	4	\$940	16	\$2,640	0	\$0	20	\$3,580		\$0		\$0	\$3,580	
1.4	Aeration Basins 5-7	6	\$1,410	24	\$3,960	0	\$0	30	\$5,370		\$0		\$0	\$5,370	
Subtotal		20	\$4,700	84	\$13,860	0	\$0	104	\$18,560	0	\$0	0	\$0	\$18,560	
PHASE 3: Task 2 - TIER 3 SEISMIC EVALUATIONS															
2.1	Aeration Basins 1-4	16	\$3,760	100	\$16,500	8	\$1,080	124	\$21,340	8	\$1,400		\$0	\$22,740	
2.2	Secondary Clarifiers 1-4	12	\$2,820	80	\$13,200	8	\$1,080	100	\$17,100	8	\$1,400		\$0	\$18,500	
2.3	Secondary Clarifiers 5 & 6	10	\$2,350	60	\$9,900	6	\$810	76	\$13,060	8	\$1,400		\$0	\$14,460	
2.4	EBDA Surge Tower	6	\$1,410	40	\$6,600	4	\$540	50	\$8,550	8	\$1,400		\$0	\$9,950	
2.5	Chlorine Contact Channel	10	\$2,350	60	\$9,900	6	\$810	76	\$13,060	8	\$1,400		\$0	\$14,460	
Subtotal		54	\$12,690	340	\$56,100	32	\$4,320	426	\$73,110	40	\$7,000	0	\$0	\$80,110	
PHASE 3: Task 3 - PLANT UNDERGROUND PIPING EVALUATION															
3.1	Provide reccomendatios on anticipated displacements		\$0	0	\$0	0	\$0	0	\$0		\$0	7	\$1,470	\$1,470	
Subtotal		0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	7	\$1,470	\$1,470	
PHASE 3: Task 4 - SEISMIC ASSESSMENT REPORT															
4.1	Provide a draft written report with summary of findings		\$0	4	\$660	16	\$2,160	20	\$2,820		\$0		\$0	\$2,820	
4.2	Respond to district comments on draft report		\$0	4	\$660	4	\$540	8	\$1,200		\$0		\$0	\$1,200	
4.3	Issue final report		\$0	1	\$165	2	\$270	3	\$435		\$0		\$0	\$435	
Subtotal		0	\$0	9	\$1,485	22	\$2,970	31	\$4,455	0	\$0	0	\$0	\$4,455	
SUBTOTAL		74	\$17,390	433	\$71,445	54	\$7,290	561	\$96,125	40	\$7,000	7	\$1,470	\$104,595	
Reimbursable Expenses									\$500		\$250		\$250	\$750	
FINAL TOTAL		74	\$17,390	433	\$71,445	54	\$7,290	561	\$96,625	40	\$7,250	7	\$1,720	\$105,345	



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: October 18, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Karen W. Murphy, General Counsel

SUBJECT: Agenda Item No. 9 - Meeting of October 24, 2016
Consider Modifying Board Officer Titles from President and Vice-President to Chair and Vice-Chair

Recommendation

The Board shall consider modifying the titles of Board officers from President and Vice-President to Chair and Vice-Chair.

Background

At the September 26, 2016, Board meeting, Vice President Kite requested the Board consider changing the titles of Board officers from President and Vice-President to Chair and Vice-Chair. In the past, it appears titles have changed between President and Vice-President and Chair and Vice-Chair at least two times based upon available information. The latest change took place in January 2008, with the titles changing back to President and Vice-President.

The majority of Sanitary Districts use the titles of President and Vice-President. Presumably, this is because California Health & Safety Code section 6486 provides that: "At its first meeting, or as soon thereafter as may be practicable, the board shall choose one of its members as *president*, and shall appoint a secretary who may be a member of the board." (emphasis added.) Health & Safety Code section 6487 further provides that all "contracts, deeds, warrants, releases, receipts and documents shall be signed in the name of the District by its president" unless the Board designates the district manager or other employee with signature authority.

The District, however, previously used the title of “Chair” or “Chairperson” as its presiding officer and could do so again provided it is clear that the Chair serves in the role of the “President” as set forth in Health & Safety Code section 6486, with the powers of the president designated in Section 6487. “Chair” would be used as the official title for the officer that effectively serves as the “President” and the “Vice-Chair” would serve in the absence of the Chair. Alternatively, the Board may choose to leave the current titles of President and Vice-President in place. No changes are proposed for the position of Board Secretary.

If the Board desires to modify the titles of the Board officers, staff would bring back revisions to Policy 3070 to effectuate the changes and clarify that the “Chair” serves as the president pursuant to the Health & Safety Code, with the “Vice-Chair” serving in the absence of the Chair.

**UNION SANITARY DISTRICT
CHECK REGISTER
10/01/2016-10/14/2016**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
162521	10/13/2016	800444.4	MOUNTAIN CASCADE INC	FREMONT & PASEO PADRE LS IMPROVEMENTS	\$968,340.75	\$968,340.75
162463	10/6/2016	800444.3	MOUNTAIN CASCADE INC	FREMONT & PASEO PADRE LS IMPROVEMENTS	\$151,349.44	\$151,349.44
162539	10/13/2016	30104167	SYNAGRO WEST LLC	AUGUST 2016 BIOSOLIDS DISPOSAL	\$71,784.67	\$71,784.67
162431	10/6/2016	11275375	BROWN & CALDWELL CONSULTANTS	ALVARADO-NILES ROAD SS REHABILITATION	\$54,669.31	\$54,669.31
162513	10/13/2016	32623R	HARRIS & ASSOCIATES	NEWARK BACKYARD SS RELOCATION - PHASE 3	\$38,030.00	\$38,030.00
162522	10/13/2016	103576	MUNIQUEIP, LLC	NPS PUMP 3 OVERHAUL MUNIQUEIP	\$34,401.04	\$34,401.04
162529	10/13/2016	1077913	POLYDYNE INC	45,080 LBS CLARIFLOC C-6267	\$31,686.73	\$31,686.73
162544	10/13/2016	533620160922	US BANK CORP PAYMENT SYSTEM	MONTHLY CAL CARD STMT - SEPTEMBER 2016	\$27,626.25	\$27,626.25
162433	10/6/2016	151694	CAROLLO ENGINEERS	THICKENER CONROL BUILDING IMPROVEMENTS PHASE II	\$1,457.40	\$21,575.58
	10/6/2016	151779		PLANT SOLIDS SYSTEM/CAPACITY ASSESSMENT	\$20,118.18	
162467	10/6/2016	224720160922	PACIFIC GAS AND ELECTRIC	SERV TO 09/21/16 CS TRAINING TRAILER	\$23.97	\$21,544.06
	10/6/2016	761520160926		SERV TO 09/25/16 NEWARK PS	\$21,520.09	
162509	10/13/2016	3834	GEOSPHERE CONSULTANTS INC	NEWARK BACKYARD SS RELOCATION - PHASE 3	\$13,966.58	\$20,730.68
	10/13/2016	3835		NEWARK BACKYARD SS RELOCATION - PHASE 3	\$6,764.10	
162523	10/13/2016	48887	NACWA	FY2017 MEMBERSHIP DUES (10/1/16 - 9/30/17)	\$16,310.00	\$16,310.00
162549	10/13/2016	3661927	WESTERN ENERGY SYSTEMS	5 SETS SPARK PLUG 4PCS P7N1	\$14,487.25	\$14,487.25
162440	10/6/2016	1856363C	DELTA DENTAL SERVICE	SEPTEMBER 2016 DENTAL	\$11,100.90	\$12,569.55
	10/6/2016	1856363A		SEPTEMBER 2016 DENTAL	\$1,468.65	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
162528	10/13/2016	16227	PACIFIC WATER RESOURCES	1 PUMP CASING WITH WEAR RING INSTALLED	\$10,252.09	\$10,252.09
162441	10/6/2016	6525	DW NICHOLSON CORP	HIGH SPEED AERATION BLOWER	\$9,271.62	\$9,271.62
162466	10/6/2016	166901	PACIFIC COAST CHEMICALS CO	1,320 GALS CAPTOR CALCIUM THIOSULFATE	\$8,929.80	\$8,929.80
162437	10/6/2016	17613025679	CORIX WATER PRODUCTS INC	80 MANHOLE CASTINGS	\$8,712.00	\$8,712.00
162476	10/6/2016	772255	UNIVAR USA INC	4,597 GALS SODIUM HYPOCHLORITE	\$2,030.27	\$8,573.76
	10/6/2016	772137		4,798 GALS SODIUM HYPOCHLORITE	\$2,119.04	
	10/6/2016	772269		5,010 GALS SODIUM HYPOCHLORITE	\$2,212.67	
	10/6/2016	771934		5,008 GALS SODIUM HYPOCHLORITE	\$2,211.78	
162457	10/6/2016	37432220161001	LINCOLN NATIONAL LIFE INS COMP	LIFE & DISABILITY INSURANCE - OCT 2016	\$7,843.02	\$7,843.02
162432	10/6/2016	29694	CALIFORNIA WATER TECHNOLOGIES	42,120 LBS FERROUS CHLORIDE	\$3,838.51	\$7,549.22
	10/6/2016	29661		42,580 LBS FERROUS CHLORIDE	\$3,710.71	
162496	10/13/2016	29702	CALIFORNIA WATER TECHNOLOGIES	42,220 LBS FERROUS CHLORIDE	\$3,666.04	\$7,415.08
	10/13/2016	29755		42,420 LBS FERROUS CHLORIDE	\$3,749.04	
162514	10/13/2016	9714260	HF&H CONSULTANTS, LLC	FINANCIAL PLANNING MODEL	\$7,207.50	\$7,207.50
162487	10/13/2016	5147557	ALL INDUSTRIAL ELECTRIC SUPPLY	EAST BLOWER ROOM LIGHTS	\$5,659.50	\$6,224.88
	10/13/2016	5147800		ASTD PARTS & MATERIALS	\$82.03	
	10/13/2016	5147560		ASTD PARTS & MATERIALS	\$130.55	
	10/13/2016	5147562		ASTD PARTS & MATERIALS	\$352.80	
162456	10/6/2016	11099051	KRONOS INC	KRONOS ANNUAL SUPPORT	\$6,180.85	\$6,180.85

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
162481	10/6/2016	12122	YORKE ENGINEERING LLC	COGEN PERMITTING SUPPORT	\$5,935.75	\$5,935.75
162516	10/13/2016	21371	IEDA INC	LABOR RELATIONS CONSULTING 10/01/16 - 12/31/16	\$5,850.00	\$5,850.00
162531	10/13/2016	117381	R-2 ENGINEERING INC	2 STATOR C320GQ	\$5,807.24	\$5,807.24
162459	10/6/2016	38495	METROMOBILE COMMUNICATIONS INC	WAN ANTENNA WORK	\$5,286.20	\$5,286.20
162468	10/6/2016	1075338	POLYDYNE INC	43,340 LBS CLARIFLOC WE-539	\$4,099.96	\$4,099.96
162485	10/13/2016	4017275220160928	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 09/06/16 - FREMONT BLVD	\$120.32	\$4,001.95
	10/13/2016	4105755320160930		SERV TO: 09/30/16-MTR HYD 19866546	\$497.66	
	10/13/2016	4105755820160930		SERV TO: 09/30/16-MTR HYD 15210655	\$679.80	
	10/13/2016	4105756020160930		SERV TO: 09/30/16-MTR HYD 33481982	\$669.68	
	10/13/2016	4105755620160930		SERV TO: 09/30/16-MTR HYD 18486436	\$541.51	
	10/13/2016	4105755420160930		SERV TO: 09/30/16-MTR HYD 29389785	\$497.66	
	10/13/2016	4105755720160930		SERV TO: 09/30/16-MTR HYD 19866542	\$497.66	
	10/13/2016	4105755520160930		SERV TO: 09/30/16-MTR HYD 19866544	\$497.66	
162443	10/6/2016	1015	EAST BAY MUNI UTILITY DISTRICT	PHARMACEUTICAL STUDY FY17	\$3,873.91	\$3,873.91
162477	10/6/2016	20161001	VISION SERVICE PLAN - CA	OCTOBER 2016 VISION STMT	\$3,432.96	\$3,432.96
162525	10/13/2016	916000128	NBS	SEWER SERVICE CHARGE DATA SERV OCT - DEC 2016	\$2,940.08	\$2,940.08
162486	10/13/2016	276050904	ALFA LAVAL ASHBROOK SIMON-HART	GBT 1 STEERING RAM CYLINDER	\$1,466.30	\$2,932.60
	10/13/2016	276052353		GBT 1 STEERING RAM CYLINDER	\$1,466.30	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
162492	10/13/2016	8624282	AT&T	SERV: 08/20/16 - 09/19/16	\$19.84	\$2,867.55
	10/13/2016	8624306		SERV: 08/20/16 - 09/19/16	\$180.83	
	10/13/2016	8624284		SERV: 08/20/16 - 09/19/16	\$2,666.88	
162497	10/13/2016	3520049543	CHARTWELL STAFFING SVCS INC	TEMP LABOR-ALVARADO MURCIA, S., WEEK ENDING 9/18/16	\$912.12	\$2,773.84
	10/13/2016	3520048833		TEMP LABOR-ALVARADO MURCIA, S., WEEK ENDING 9/11/16	\$712.20	
	10/13/2016	3520048665		TEMP LABOR-ALVARADO MURCIA, S., WEEK ENDING 9/04/16	\$1,149.52	
162447	10/6/2016	1212077	GROENIGER AND COMPANY	33 ASTD WYE'S & TEE'S	\$1,382.94	\$2,368.08
	10/6/2016	1208746		6 BUSHINGS	\$168.73	
	10/6/2016	1209260		ASTD WYE'S AND TEE'S	\$816.41	
162482	10/13/2016	40868	ABACUS PRODUCTS INC	2500 FISH ERASERS	\$2,316.03	\$2,316.03

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162520	10/13/2016	82614724	MCMaster SUPPLY INC	ASTD PARTS & MATERIALS	\$89.97	\$2,242.72
	10/13/2016	82787591		ASTD PARTS & MATERIALS	\$489.28	
	10/13/2016	83324177		ASTD PARTS & MATERIALS	\$154.97	
	10/13/2016	82913579		ASTD PARTS & MATERIALS	\$24.69	
	10/13/2016	82706225		1 LEATHER WELDING APRON	\$60.11	
	10/13/2016	83417271		ASTD PARTS & MATERIALS	\$833.74	
	10/13/2016	82734541		1 EASY-CUT MULTIPURPOSE PIPE	\$67.44	
	10/13/2016	82735471		20 SANDING BELTS	\$133.04	
	10/13/2016	79634061		1 PICK	\$22.45	
	10/13/2016	82674753		ASTD PARTS & MATERIALS	\$97.26	
	10/13/2016	82695994		2 GRAB HOOK RATCHET LOAD BINDERS	\$269.77	
162547	10/13/2016	9772352117	VERIZON WIRELESS	WIRELESS SERV 08/21/16-09/20/16	\$2,231.11	\$2,231.11
162545	10/13/2016	35470	VALLEY OIL COMPANY	2 DRUMS CHEVRON DELO 15W/40 OIL	\$2,158.71	\$2,158.71
162543	10/13/2016	774217	UNIVAR USA INC	4,801 GALS SODIUM HYPOCHLORITE	\$2,120.37	\$2,120.37
162493	10/13/2016	2521972615	BANK OF NEW YORK	JUN 2016 SERVICE FEE	\$979.48	\$2,061.03
	10/13/2016	2521971953		MAY 2016 SERVICE FEE	\$1,081.55	

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162462	10/6/2016	24870405	MOTION INDUSTRIES INC	6 FILTERS	\$235.62	\$2,012.95
	10/6/2016	24870320		1 BEARING	\$542.23	
	10/6/2016	24870242		1 BEARING PILLOW BLOCK	\$543.23	
	10/6/2016	24870263		8 AIR FILTER ELEMENTS	\$691.87	
162470	10/6/2016	46617523	ROBERT HALF INTERNATIONAL INC	TEMP LABOR-PENALOSA, J., WKEND 09/02/16	\$998.00	\$1,996.00
	10/6/2016	46653230		TEMP LABOR-PENALOSA, J., WKEND 09/09/16	\$998.00	
162428	10/6/2016	144300	BABBITT BEARING CO INC	CERAMIC COATING OF MONYO DRIVE SHAFT	\$1,892.50	\$1,892.50
162533	10/13/2016	916002880234	REPUBLIC SERVICES #916	RECYCLE & ROLL OFF - SEPTEMBER 2016	\$1,891.16	\$1,891.16
162442	10/6/2016	4210161	DWYER INSTRUMENTS, INC.	6 VA15419 GLASS FLOWMETER, 27.9 SCFH	\$1,820.65	\$1,820.65
162471	10/6/2016	7637004200	RS HUGHES CO INC	ASTD PPE & SAFETY SUPPLIES	\$1,679.61	\$1,813.60
	10/6/2016	7637004202		ASTD PPE & SAFETY SUPPLIES	\$133.99	
162422	10/6/2016	9055236004	AIRGAS NCN	3 CYL ARGON	\$1,222.93	\$1,625.72
	10/6/2016	9055376144		2 CYL WELDING GAS	\$402.79	
162489	10/13/2016	6092348	ALPHA ANALYTICAL LABORATORIES	55 LAB SAMPLE ANALYSIS	\$660.00	\$1,560.00
	10/13/2016	6092491		18 LAB SAMPLE ANALYSIS	\$345.00	
	10/13/2016	6092151		46 LAB SAMPLE ANALYSIS	\$555.00	
162434	10/6/2016	292181	CENTERVILLE LOCKSMITH	ASTD KEYS	\$18.72	\$1,510.11
	10/6/2016	292091		48 CUSTOM ENGRAVED LOCKS	\$1,491.39	

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162446	10/6/2016	9209077479	GRAINGER INC	1 SOCKET	\$24.79	\$1,501.66
	10/6/2016	9207887663		1 VERTICAL BAR RACK	\$346.42	
	10/6/2016	9207365314		ASTD PARTS & MATERIALS	\$264.80	
	10/6/2016	9206304934		1 COMPRESSED AIR FILTER	\$102.22	
	10/6/2016	9206730849		1 SPOOL CABLE	\$763.43	
162491	10/13/2016	16045	AQUADYNE ASSOCIATES	1 INTERNAL FLOAT ASSEMBLY FOR VENT-O-MATIC	\$1,465.56	\$1,465.56
162478	10/6/2016	8046184637	VWR INTERNATIONAL LLC	ASTD LAB SUPPLIES	\$1,407.62	\$1,407.62
162479	10/6/2016	37346	WECO INDUSTRIES LLC	2 CABLE ASSY, 1 KIT REPAIR & 1 ADAPTER	\$1,278.33	\$1,278.33
162427	10/6/2016	1410149485C	AVEPOINT PUBLIC SECTOR INC	DOCAVE 6 BACKUP AND RECOVERY	\$1,238.00	\$1,238.00
162472	10/6/2016	1737743006	SAN LEANDRO ELECTRIC SUPPLY	ASTD PARTS & MATERIALS	\$44.21	\$1,209.63
	10/6/2016	1740607001		1 BRS COVER PLATE	\$65.72	
	10/6/2016	1745679003		ASTD PARTS & MATERIALS	\$1,099.70	
162464	10/6/2016	20161005	SHAWN NESGIS	EXP REIMB: CWEA NOR-CAL SAFETY DAY REGIS FEE, 10 CS EE'S	\$1,150.00	\$1,150.00
162515	10/13/2016	5640411	HOSE & FJTTINGS ETC	600 FEET HOSE	\$1,071.09	\$1,071.09
162540	10/13/2016	3959	T&D DIESEL SMOKE TESTNG LLC	14 CALIFORNIA (PSIP) DIESEL SMOKE TESTS	\$1,015.00	\$1,015.00

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162526	10/13/2016	898220160930	PACIFIC GAS AND ELECTRIC	SERV TO 09/29/16 FREMONT PS	\$456.08	\$1,006.37
	10/13/2016	096020160930		SERV TO 09/29/16 CATHODIC PROJECT	\$59.35	
	10/13/2016	380420160930		SERV TO 09/28/16 CHERRY ST PS	\$249.69	
	10/13/2016	892820160930		SERV TO 09/29/16 HAYWARD MARSH	\$52.15	
	10/13/2016	666720160930		SERV TO 09/29/16 PASEO PADRE PS	\$189.10	
162490	10/13/2016	564525	A-PRO PEST CONTROL INC	SEP PEST CONTROL	\$1,005.00	\$1,005.00
162436	10/6/2016	22794	CLI-METRICS SERVICE COMPANY	SERVICE REQEUST: BLDG 70 CHILLER	\$565.00	\$965.00
	10/6/2016	22901		SERVICE REQUEST: BLDG 70	\$400.00	
162425	10/6/2016	8610956	AT&T	SERV: 08/13/16 - 09/12/16	\$66.38	\$947.82
	10/6/2016	8610957		SERV: 08/13/16 - 09/12/16	\$88.03	
	10/6/2016	8610955		SERV: 08/13/16 - 09/12/16	\$43.16	
	10/6/2016	8610953		SERV: 08/13/16 - 09/12/16	\$750.25	
162498	10/13/2016	18395	CLI-METRICS SERVICE COMPANY	MONTHLY MAINTENANCE SEP 2016 - FEB 2017	\$898.00	\$898.00
162506	10/13/2016	179	FORMULA DESIGN	PUBLIC WEBSITE IMPROVEMENTS	\$850.00	\$850.00
162453	10/6/2016	530684	HULBERT LUMBER SUPPLY	I BUNDLE STAKES	\$15.74	\$817.09
	10/6/2016	530630		ASTD LUMBER SUPPLIES	\$801.35	
162424	10/6/2016	6091696	ALPHA ANALYTICAL LABORATORIES	71 LAB SAMPLE ANALYSIS	\$795.00	\$795.00
162455	10/6/2016	80401690	KANO LABORATORIES INC	6 CASES AEROKROIL	\$780.89	\$780.89

**UNION SANITARY DISTRICT
CHECK REGISTER
10/01/2016-10/14/2016**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
162535	10/13/2016	306143	RKI INSTRUMENTS INC	4 BATTERY, NI-CD, SIZE D, 4.5 AH	\$46.20	\$760.65
	10/13/2016	305783		ASTD PARTS & MATERIALS	\$714.45	
162460	10/6/2016	609433	MISSION CLAY PRODUCTS LLC	24 CLAY FITTINGS	\$740.04	\$740.04
162524	10/13/2016	696518	NAPA AUTO PARTS	1 EXH WRAP, 2X50 BLACK	\$73.68	\$731.68
	10/13/2016	20160930		MONTHLY AUTO PARTS STMT - SEPT 2016	\$658.00	
162458	10/6/2016	82190007	MCMaster SUPPLY INC	2 PACKS CABLE TIES	\$15.45	\$729.37
	10/6/2016	82433888		1 CLIP-ON PORTABLE LIGHT	\$26.21	
	10/6/2016	81182693		ASTD PARTS & MATERIALS	\$102.03	
	10/6/2016	81179416		1 HIGH-TEMPERATURE GAUGE GUARD	\$94.96	
	10/6/2016	81579498		1 HEAVY DUTY BENCH GRINDER	\$439.86	
	10/6/2016	81741727		ASTD PARTS & MATERIALS	\$28.66	
	10/6/2016	81295582		2 PACKS FLAT-HEAD CAP SCREWS	\$22.20	
162444	10/6/2016	1083827183	G&K SERVICES CO	UNIFORM LAUNDERING & RUGS	\$427.98	\$707.64
	10/6/2016	1083827185		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$33.70	
	10/6/2016	1083827184		UNIFORM LAUNDERING SERVICE	\$245.96	
162438	10/6/2016	268979	CURTIS & TOMPKINS, LTD	17 LAB SAMPLE ANALYSIS	\$585.00	\$695.00
	10/6/2016	269009		4 LAB SAMPLE ANALYSIS	\$110.00	
162426	10/6/2016	8789658120925201@T&T		SERV: 08/18/16 - 09/17/16	\$678.60	\$678.60
162512	10/13/2016	3K1029	HARRINGTON INDUSTRIAL PLASTICS	ASTD PARTS & MATERIALS	\$651.99	\$651.99

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
162450	10/6/2016	1717146	HANSON AGGREGATES INC	8.32 TONS 1/2 MED TYPE A AC-R	\$627.72	\$627.72
162475	10/6/2016	3316273186	STAPLES CONTRACT & COMMERCIAL	ASTD JANITORIAL SUPPLIES - INVENTORY	\$85.83	\$590.48
	10/6/2016	3316273180		ASTD JANITORIAL SUPPLIES - INVENTORY	\$60.49	
	10/6/2016	3316273183		ASTD JANITORIAL SUPPLIES - INVENTORY	\$504.65	
	10/6/2016	3316273177		ASTD JANITORIAL SUPPLIES - INVENTORY	\$-60.49	
162527	10/13/2016	34441SR	PACIFIC PLUMBING & SEWER SERV	UNCLOG SINK DRAIN IN BUILDING 70	\$580.00	\$580.00
162461	10/6/2016	1037762	MOBILE MODULAR MANAGEMENT CORP	FMC TRAILER RENTAL - JUNE 2016	\$102.30	\$535.70
	10/6/2016	1025994		FMC TRAILER RENTAL - JUNE 2016	\$433.40	
162507	10/13/2016	1083829124	G&K SERVICES CO	UNIFORM LAUNDERING SERVICE	\$245.96	\$508.56
	10/13/2016	1083829125		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$33.70	
	10/13/2016	108329123		UNIFORM LAUNDERING & RUGS	\$228.90	
162430	10/6/2016	8540	BODHI TREE RESIDENTIAL	REFUND # 19291	\$500.00	\$500.00
162483	10/13/2016	8546	ABOVE ALL PLUMBING, INC.	REFUND # 19311	\$500.00	\$500.00
162503	10/13/2016	8572	DRAINLINE SEWER SPECIALIST	REFUND # 19300	\$500.00	\$500.00
162508	10/13/2016	8502	ANGEL GARCIA	REFUND # 19313	\$500.00	\$500.00
162517	10/13/2016	8604	NIRMAL KUMAR	REFUND # 19315	\$500.00	\$500.00
162534	10/13/2016	8513	RESCUE RESPONSE GROUP INC	REFUND # 19304	\$500.00	\$500.00
162537	10/13/2016	8557	S & Y CORPORATION	REFUND # 19293	\$500.00	\$500.00
162546	10/13/2016	8563	VD FREMONT CENTRAL LLC	REFUND # 19312	\$500.00	\$500.00

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10/01/2016-10/14/2016**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
162451	10/6/2016	3J9670	HARRINGTON INDUSTRIAL PLASTICS	ASTD PVC PARTS & MATERIALS	\$308.57	\$484.29
	10/6/2016	3J9669		4 STRAINERS	\$175.72	
162465	10/6/2016	8469488	OVIVO USA LLC	ASTD CLARIFIER PARTS	\$459.31	\$459.31
162541	10/13/2016	170353	TECHNICAL SAFETY SERVICES INC	FUME HOOD CERTIFICATION & ALARM CALIBRATION	\$451.61	\$451.61
162448	10/6/2016	83184513	HAMPTON INN AND SUITES	PREPAY LODGING: S. MARTING & M. TATAKAMOTONGA - 11/15-17/2016	\$437.00	\$437.00
162536	10/13/2016	2873417001	S & S SUPPLIES & SOLUTIONS	200 BRIEF RELIEF POUCH POCKET SIZE	\$424.60	\$424.60
162473	10/6/2016	20160930	ROBERT SIMONICH	EXP REIMB: MEALS/TAXI/PARKING TRI-STATE SEMINAR LAS VEGAS	\$412.51	\$412.51
162550	10/13/2016	20161011	JASON YEATES	EXP REIMB: 2 CWEA GRADE III TEST FEES	\$370.00	\$370.00
162499	10/13/2016	17613026573	CORIX WATER PRODUCTS INC	5 RISER FRAME AND COVER	\$319.01	\$319.01
162439	10/6/2016	201609.10	DALE HARDWARE INC	09/16 - ASTD PARTS & MATERIALS	\$310.49	\$310.49
162538	10/13/2016	20161011	SWRCB - CERTIFICATIONS	GRADE III CERT RENEW - HARRIS	\$300.00	\$300.00
162500	10/13/2016	20161007	MITCHELL COSTELLO	TRAVEL REIMB: MEALS	\$193.61	\$296.81
	10/13/2016	20161007.1		TRAVEL REIMB: PARKING/TRANSPORTATION	\$103.20	
162454	10/6/2016	136881	INTERNATIONAL PAINT LLC	ASTD PAINT SUPPLIES	\$266.00	\$266.00
162548	10/13/2016	8046229657	VWR INTERNATIONAL LLC	4 BUFFER PH7 32OZ & 3 BUFFER PH 10CC 32OZ	\$134.70	\$235.02
	10/13/2016	8046258065		10 DRYING TUBE DRIERITE	\$100.32	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
162495	10/13/2016	11498041	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$40.11	\$233.20
	10/13/2016	11498040		ASTD OFFICE SUPPLIES	\$34.52	
	10/13/2016	11490020		ASTD OFFICE SUPPLIES	\$56.38	
	10/13/2016	11489730		ASTD OFFICE SUPPLIES	\$7.33	
	10/13/2016	11492090		ASTD OFFICE SUPPLIES	\$94.86	
162505	10/13/2016	1000436194	ENVIRONMENTAL EXPRESS	5 LAB SAMPLE ANALYSIS	\$225.93	\$225.93
162501	10/13/2016	20161010	CWEA-NRTC	SEMINAR REG: A. BERLING	\$222.00	\$222.00
162435	10/6/2016	54602368	CINTAS CORPORATION	2 CS DOC MARTEN BALSAM	\$209.00	\$209.00
162532	10/13/2016	8200000010019	RED WING SHOE STORE	SAFETY SHOES - LANDSBOROUGH	\$208.00	\$208.00
162429	10/6/2016	11476330	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$52.77	\$205.45
	10/6/2016	11476351		ASTD OFFICE SUPPLIES	\$8.67	
	10/6/2016	11476350		ASTD OFFICE SUPPLIES	\$12.43	
	10/6/2016	11487740		ASTD OFFICE SUPPLIES	\$31.89	
	10/6/2016	11479210		ASTD OFFICE SUPPLIES	\$99.69	
162480	10/6/2016	2142737001	WHCI PLUMBING SUPPLY CO	1 RH HI-SPEED DIES	\$181.23	\$181.23
162519	10/13/2016	14030943	MATHESON TRI-GAS INC	ARGON GAS FOR THE LAB	\$172.35	\$172.35
162504	10/13/2016	20161010	PAUL ELDREDGE	EXP REIMB: P. ELDREDGE	\$143.60	\$143.60
162494	10/13/2016	201630	BASMAA	1000 OWOW PRODUCT GUIDES	\$132.56	\$132.56
162469	10/6/2016	83403	REMOTE SATELLITE SYSTEMS INT'L	IRIDIUM SVC FEE OCTOBER 2016	\$97.90	\$97.90

**UNION SANITARY DISTRICT
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10/01/2016-10/14/2016**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
162518	10/13/2016	25413	MAR-LEN SUPPLY INC	REPAIR STEAM CLEANER	\$95.00	\$95.00
162445	10/6/2016	20160930	TROY GASKINS	EXP REIMB: MEALS FOR TRI-STATE CONFERENCE - LAS VEGAS	\$87.21	\$87.21
162502	10/13/2016	130131	CWEA-NRTC	MEMBERSHIP RENEWAL: T. GRILLO	\$86.00	\$86.00
162488	10/13/2016	502111	ALLIANT INSURANCE SERVICES INC	PHYSICAL DAMAGE: 4TH QTR ENDORSEMENT	\$66.00	\$66.00
162474	10/6/2016	20161003	THOMAS SOLARI	EXP REIMB: MILEAGE FOR CALL OUT	\$65.88	\$65.88
162542	10/13/2016	18078241	TRI DIM FILTER CORPORATION	66 TRI-DEK #5 1 PLY PADS	\$64.20	\$64.20
162530	10/13/2016	245580	PRESTIGE LENS LAB	SAFETY GLASSES - CHAPARRO	\$272.66	\$56.94
	10/13/2016	245579		CREDIT SAFETY GLASSES - CHAPARRO	\$-215.72	
162484	10/13/2016	9055515547	AIRGAS NCN	ASTD PARTS & MATERIALS	\$56.93	\$56.93
162423	10/6/2016	5147279	ALL INDUSTRIAL ELECTRIC SUPPLY	ASTD PARTS & MATERIALS	\$56.89	\$56.89
162452	10/6/2016	709609	HAYWARD WATER SYSTEM	WATER SERV 07/13/16 - 09/08/16	\$48.13	\$48.13
162449	10/6/2016	263745	HANIGAN COMPANY INC	BUSINESS CARDS - LUBINA	\$37.79	\$37.79
162510	10/13/2016	81734	GORILLA METALS	ASTD METAL, STEEL, STAINLESS & ALUMINUM	\$27.05	\$27.05
162511	10/13/2016	9216457169	GRAINGER INC	1 CAN ANTI-ZEIZE COMPOUND	\$16.20	\$16.20

**UNION SANITARY DISTRICT
CHECK REGISTER
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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
Invoices:				Checks:		
Credit Memos :		2	-276.21			
\$0 - \$1,000 :		151	45,795.57	\$0 - \$1,000 :	65	26,153.32
\$1,000 - \$10,000 :		51	163,026.85	\$1,000 - \$10,000 :	49	172,678.77
\$10,000 - \$100,000 :		13	365,953.09	\$10,000 - \$100,000 :	13	375,667.21
Over \$100,000 :		2	1,119,690.19	Over \$100,000 :	2	1,119,690.19
Total:		219	1,694,189.49	Total:	129	1,694,189.49



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: October 17, 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. 11 – Meeting of October 24, 2016
Information Item: Recycled Water Feasibility Study Update

Recommendation

This is an information item.

Background

The District and the Alameda County Water District (ACWD) have partnered to investigate potential recycled water projects in the joint service area in 1993, 2000, 2003, 2010, and now again in 2015/16. The latest Recycled Water Feasibility Study Update (Study) is being administered by ACWD, was conducted by RMC Water and Environment (RMC), and received partial funding from the State Water Resources Control Board's grant program. As this study is nearing completion, staff thought it would be appropriate to provide a brief overview of the report's preliminary findings.

The impetus for recycled water in the future includes maintaining ACWD's current and future supplies during drought years, as well as ACWD's potentially higher demand coupled with decreased reliability of imported supplies during non-drought years. Environmental stewardship and public perception also remain key issues for both the District and ACWD. Reclaimed water is one of several options ACWD and other water purveyors in the Bay Area are evaluating to provide this reliability and additional supply. Examples of other options range from an expanded Los Vaqueros reservoir, operational changes at the Del Valle Reservoir, California Water Fix (twin tunnels) and the Sites Reservoir to name a few.

Non-Potable Recycled Water

The scope of the Study included an update of the 2010 Study which focused primarily on non-potable recycled water. The findings and conclusions of the last investigation were reviewed, including wastewater and water supply needs, non-potable recycled water market demands, and recent technology improvements. As with the previous studies, implementation of a large-scale non-potable recycled water project continues to be deferred due to a lack of growth in the potential customer base since the last study, the lack of new anchor customers such as golf courses or heavy industries, rising efficiency in water usage, and drought ordinances which limit water usage and decrease overall demand via conservation.

Indirect Potable Re-use

The primary objective of the current Study was to evaluate the potential for a joint indirect potable re-use (IPR) project between the District and ACWD that would recharge the Niles Cone Groundwater Basin with recycled water. Additionally, the study also evaluated the feasibility of a residential filling station at the District's site that was presented to the Board earlier.

Regulations governing groundwater recharge (GWR) for IPR stipulate that the water for this particular application would have to be advanced treated and achieve 6 months of retention time underground. In order to produce advanced treated water at the Alvarado Wastewater Treatment Plant (WWTP), a secondary treatment process enhancement such as a membrane bioreactor system (MBR) would be required along with an all-new Advanced Water Purification Facility (AWPF). The AWPF would likely be sited to the north of the WWTP on a property that is not currently owned by the District and would have to be acquired by ACWD. The Study sized the proposed MBR and AWPF to treat 4 MGD of the WWTP's final effluent (current average dry weather flow of 22 MGD) and provide advanced treated water for GWR on a year-round basis.

Once that water is produced, a pump station would pump it through a conveyance pipeline to one of two potential recharge facilities, either surface application at the Quarry Lakes Regional Recreational Area (Quarry Lakes), or subsurface application via injection wells situated not far from Quarry Lakes. Please see the location map provided in Exhibit A.

Depending on the final destination, the conveyance pipeline would follow a similar alignment and consist of either entirely new pipe or potentially utilize ACWD's existing potable water spine pipeline which is scheduled for replacement in the future, and may or may not need rehabilitation before repurposing as a recycled water pipeline. Please see the alignment maps provided in Exhibits B and C.

Estimated Costs

The estimated capital cost for a project recharging at Quarry Lakes ranges from \$79M to \$99M, while a project serving injection wells ranges from \$100M to \$115M. The greatest variability in these estimates is attributable to whether or not the spine pipeline can be reused, and whether or not it must be rehabilitated. The table below provides a more detailed breakdown:

Project	Secondary Process Improvements	Advanced Water Purification Facility	Pump Station	Conveyance Pipeline	Recharge Facilities	Total
Quarry Lakes	\$28.9M	\$35.7M	\$1.2M	\$12.7M to \$32.3M	\$1.2M	\$79.8M to \$99.3M
Injection Wells	\$28.9M	\$35.7M	\$1.3M	\$22.6M to \$37.7M	\$11.5M	\$100M to \$115.1M

The estimated overall unit cost (annualized capital cost plus annual O&M cost, per acre-foot (AF) yield of water) for the Quarry Lakes project ranges from \$1,770 per AF to \$1,980 per AF. Other similar advanced treated recycled water projects range from \$750 per AF to \$1,950 per AF. The Quarry Lakes project is therefore consistent with, but on the higher end of, the advanced treated recycled water cost spectrum.

Next Steps

The District and ACWD are currently reviewing the final draft report from RMC. Staff anticipates the final report to be complete by November, 2016. Payment from the State’s grant program will be applied for at that time. Any IPR project proposed for implementation will require further study and modeling by ACWD before moving forward.

The District supports the concept of recycled water and is continually looking for opportunities to reuse this resource. From an operational perspective, the options presented in the draft report have some benefits to the District such as an additional option during wet weather and some nutrient removal from a small fraction of the WTPP’s final effluent, however these benefits are minimal.

PRE/SEG/RC/CE:ks

- Attachments: Exhibit A – Location Map
 Exhibit B – Quarry Lakes Pipeline Alignment Map
 Exhibit C – Injection Wells Pipeline Alignments Map

Exhibit A: Location Map



P:\0199 Alameda County Water District (ACWD)\0199-002 ACWD-USD RW Study 2015\0. GIS\Projects\Potential Injection Well Locations_Figure.mxd

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User

EXHIBIT B: Pipeline from WWTP to the Quarry Lakes

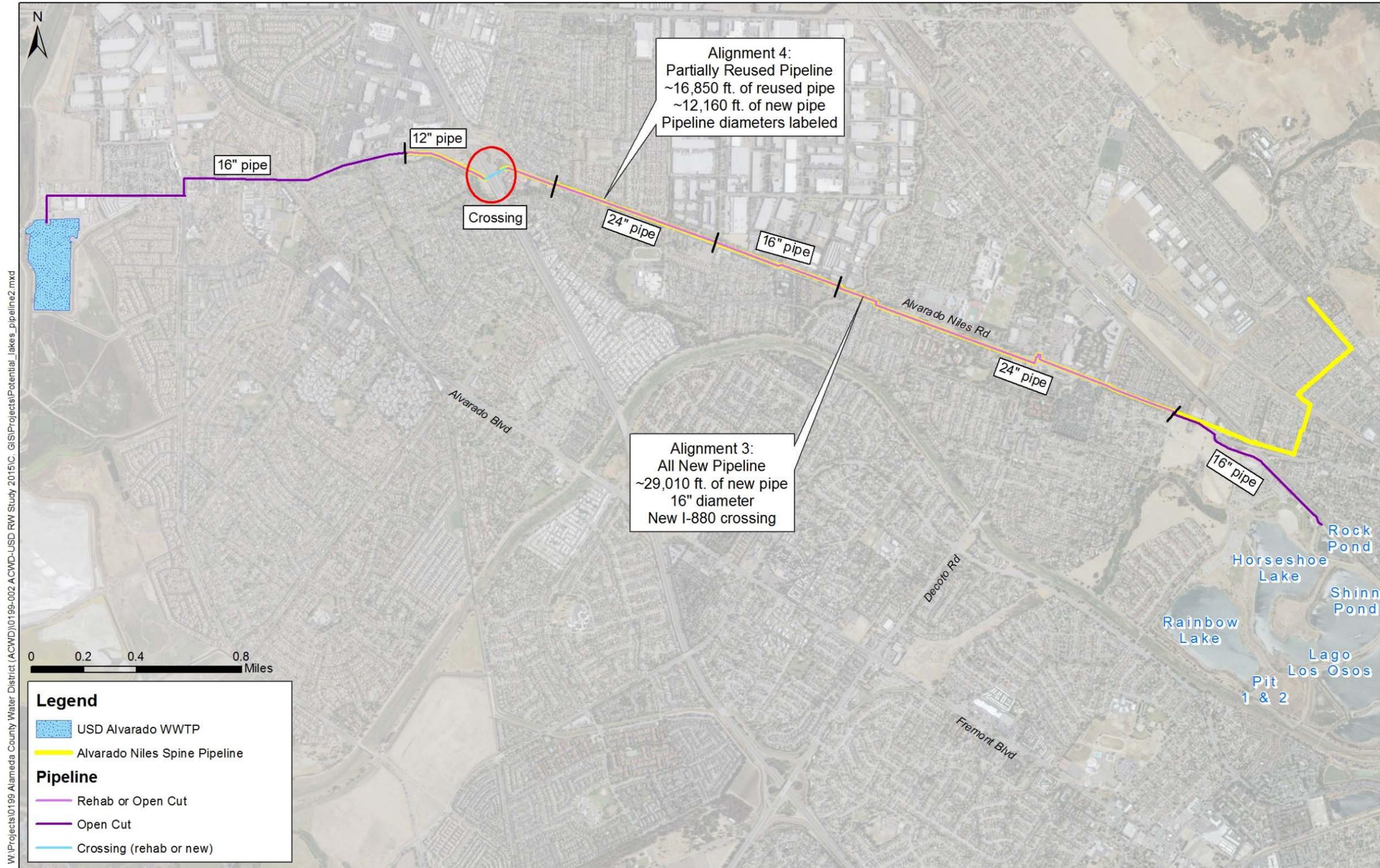
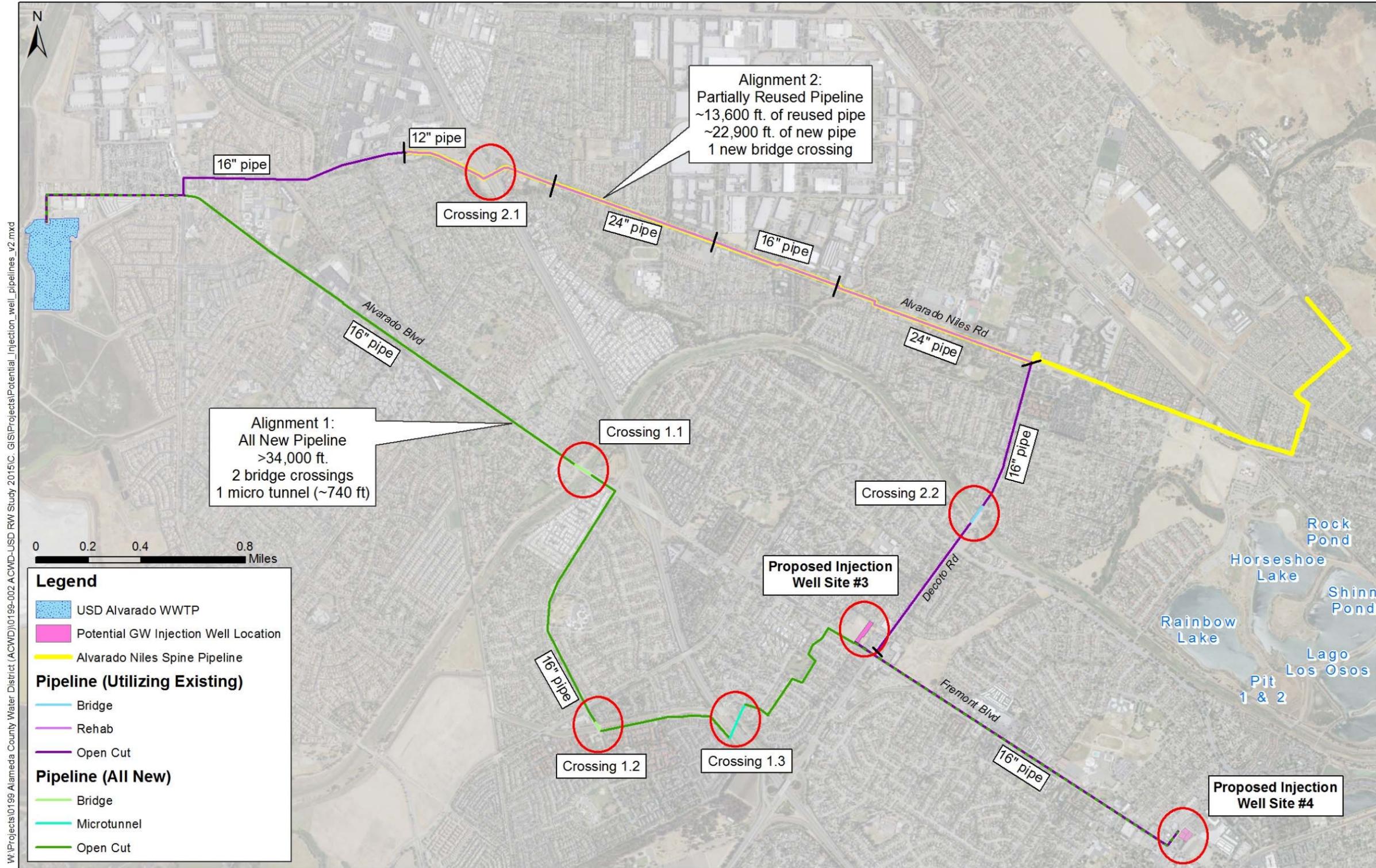


EXHIBIT C: Pipeline Alignment Options from WWTP to Injection Wells





Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: October 17, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul Eldredge, General Manager/District Engineer
Armando Lopez, Manager, Treatment and Disposal Services
Tim Grillo, Coach, Research and Support Team

SUBJECT: Agenda Item No. 12 - Meeting of October 24, 2016
Information Item: **Annual Report to Union City Fiscal Year 2016**

Recommendation

Information Only.

Background

Union City Use Permit UP-4-95 requires the District to submit a report annually to the City Manager's Office. The purpose of the report is to:

1. Document the existing wastewater treatment plant flow
2. Provide a projection of the plant flow for the following year
3. Review compliance with effluent discharge limits
4. Provide a status report on progress made in the development of any new treatment facilities outside of the Union City limits.

A copy of the District's annual report to Union City for FY 2016 is attached for review.



Directors
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Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge, P.E.
General Manager
District Engineer

Karen W. Murphy
Attorney

October 17, 2016

Mr. Tony Acosta
City Manager, City of Union City
34009 Alvarado-Niles Road
Union City, CA 94587

SUBJECT: SUBMISSION OF ANNUAL REPORT FOR UNION SANITARY DISTRICT FOR FISCAL YEAR 2016

Dear Mr. Acosta,

Pursuant to Union City use permit (UP-4-95), Union Sanitary District hereby submits its Annual Report for Fiscal Year 2016.

Introduction

The Union City Planning Commission approved use permit No.UP-4-95 (Use Permit) on July 20, 1995, that allowed for the expansion of the Union Sanitary District (USD) Alvarado Wastewater Treatment Facility from a capacity of 35 million gallons per day (MGD) to 38 MGD. The Use Permit requires the District to submit an annual report to the City Manager's Office documenting the current wastewater flow received at the Alvarado Treatment Plant, a projection of flows for the next year, the current discharge limits imposed by the Regional Water Quality Control Board (RWQCB), and a status report on progress made toward development of a new facility outside of Union City limits (Condition 9).

A second condition (Condition 6) requiring an annual operations audit by an independent expert was eliminated by mutual agreement of Union Sanitary District's General Manager, Richard Currie, and Union City's City Manager, Larry Cheeves, in January 2005 following more than 10 years of perfect NPDES Permit compliance.

Background

Union Sanitary District, founded in 1918, collects and treats wastewater from the communities of Union City, Newark, and Fremont, California. The District owns and operates a wastewater treatment plant located in Union City. Treated

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P.O. Box 5050 Union City, CA 94587-8550
(510) 477-7500 FAX (510) 477-7505
www.unionsanitary.com

Effluent is discharged through the East Bay Dischargers Authority (EBDA) outfall into San Francisco Bay. A portion of the effluent is diverted to Hayward Marsh from the EBDA force main as a beneficial use of reclaimed wastewater.

The Alvarado Wastewater Treatment Facility was completed in 1981 and was originally rated for a design flow of 19.7 MGD. The Plant Expansion Project increased treatment capacity in 1985. The Plant Upgrade Project set the firm reliable treatment capacity at 33 MGD in 1997. The upgrade project replaced the original secondary treatment technology with three aeration basins, and included a new blower room, headworks, generator building, new digester and other miscellaneous improvements. Construction of a centrifuge dewatering facility was completed in 2004. Replacement of the treatment plant cogeneration system and its associated building was completed in 2015. Construction to renew and replace aging equipment is a continual and ongoing process.

Current Wastewater Flow

The following is a summary of the average dry weather flow (ADWF) and annual average daily flow (AADF) for recent fiscal years. The Alvarado treatment facility is permitted to treat an ADWF flow of 33 MGD under the current national pollution discharge elimination system (NPDES) permit. The ADWF is defined as the average flow during the summer months of May through September. The AADF is defined as the annual average daily flow throughout the fiscal year including both wet and dry seasons.

<u>Fiscal Year</u>	<u>ADWF Permitted by NPDES, MGD</u>	<u>Actual ADWF, MGD</u>	<u>Actual AADF, MGD</u>
<u>2012</u>	<u>33</u>	<u>26.0</u>	<u>25.1</u>
<u>2013</u>	<u>33</u>	<u>24.3</u>	<u>24.6</u>
<u>2014</u>	<u>33</u>	<u>24.1</u>	<u>23.5</u>
<u>2015</u>	<u>33</u>	<u>22.6</u>	<u>22.9</u>
<u>2016</u>	<u>33</u>	<u>21.9</u>	<u>22.8</u>

During FY16, an average effluent flow of 2.9 MGD was reused at the Hayward Shoreline Marsh.

Projected Wastewater Flow

The annual average daily flow (AADF) has been trending downward for the past several years due to the loss of some water intensive industries from the service area and to impacts from the draught and water conservation efforts by ACWD.

The AADF for FY16 was 22.8 MGD, which is a decrease of 0.1 MGD from the FY15 average. We do not anticipate that this trend will continue in FY 17 due to the construction of additional housing in the service area. The AADF for FY17 is expected to increase slightly.

Discharge Compliance and Permit Limits

The regional board reissued the NPDES permit for the East Bay Dischargers Association in 2012. The NPDES permit includes an effluent limit for ammonia at the combined final effluent discharged to the San Francisco Bay. It is currently easy to comply with this limit. However, we anticipate that future changes to the ammonia limit could require substantial improvements to the treatment plant for ammonia removal.

There were no violations of the EBDA Discharge permit in FY 2016. Union Sanitary District was presented with the Peak Performance Award (Platinum Award) from the National Association of Clean Water Agencies (NACWA) for Calendar Year 2015. The NACWA Platinum Award recognizes perfect National Pollutant Discharge Elimination System (NPDES) permit compliance for a consecutive five year period. This is the second consecutive year of receiving the Platinum Award. Union Sanitary District has been recognized through the Peak Performance Award Program for the past 23 years.

Development of Facilities Outside Union City

The District has no plans for construction of additional treatment outside the City of Union City. We are conducting a solids capacity assessment study to determine the impact of an increased mass load of conventional pollutants to the treatment plant that has occurred as the flow to the treatment plant has decreased. Results from this and other engineering studies will help inform us of future needs for wastewater treatment.

If you have any questions or need additional information, please contact me at (510) 477-7517 or email armando_lopez@unionsanitary.ca.gov.

Sincerely,

Armando Lopez
Manager, Treatment & Disposal Services



Directors

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers

Paul R. Eldredge, P.E
*General Manager/District
Engineer*

Karen W. Murphy
Attorney

DATE: October 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. 13 – October 24, 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 first quarter of FY 2017. This covers transactions for the CAL-Card billing period July 23, 2016 through September 22, 2016. During this quarter, we had 244 transactions totaling \$59,063.47.

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
137510	Rialto	9399	CITY OF FREMONT DEV SVCS	FREMONT	CA	\$ 8,640.00	6	\$ 1,440.00	\$ 0.00	0	\$ 8,640.00	14.79%	6	\$ 0.00
47979	WHOLESALE TRADE	5085	ALLEY INDUSTRIAL SUPPLY	650-5920358	CA	3,401.70	1	3,401.70	0.00	0	3,401.70	5.82%	1	0.00
47963	BUSINESS EXPENS	8398	CA WATER ENV ASSN	510-382-7800	CA	1,555.00	10	155.50	0.00	0	1,555.00	2.66%	10	0.00
212656	SCCLD AUTO	7538	BAYCOUNTIESDIES ELSERVINC	FREMONT	CA	1,547.50	5	309.50	0.20	1	1,547.30	2.65%	6	4.20
119156	MCC001	8220	PAYPAL *NATIONALTEC-NTT	402-935-7733	CO	1,399.00	1	1,399.00	0.00	0	1,399.00	2.39%	1	0.00
141822	Hardware Supply	5200	THE HOME DEPOT #0635	UNION CITY	CA	1,381.93	1	1,381.93	0.00	0	1,381.93	2.37%	1	125.63
47979	WHOLESALE TRADE	5251	HARBOR FREIGHT TOOLS 38	NEWARK	CA	1,313.99	1	1,313.99	0.00	0	1,313.99	2.25%	1	114.00
47970	OFFICE SERVICES	7399	ACT*MSA-SF BAY AREA CH	877-551-5560	TX	1,275.00	4	318.75	0.00	0	1,275.00	2.18%	4	0.00
47979	WHOLESALE TRADE	5251	SOL*SNAP-ON INDUSTRIAL	877-740-1900	GA	1,274.85	6	212.48	0.00	0	1,274.85	2.18%	6	0.00
212656	SCCLD AUTO	7538	CATS AUTO REPAIR	FREMONT	CA	1,247.07	2	623.53	0.00	0	1,247.07	2.13%	2	0.00
47971	OFFICE SUPPLIES	5942	AMAZON MKTPLACE PMTS	AMZN.COM/BILL	WA	1,143.24	13	87.94	0.00	0	1,143.24	1.96%	13	33.97
47979	WHOLESALE TRADE	5085	MCMaster-CARR	630-834-9600	IL	1,120.18	1	1,120.18	0.00	0	1,120.18	1.92%	1	100.20
47963	BUSINESS EXPENS	8398	CALIFORNIA ASSOC OF SAN	916-4460388	CA	1,100.00	2	550.00	0.00	0	1,100.00	1.88%	2	0.00
47963	BUSINESS EXPENS	8299	SOCIETY FOR HUMAN RESOURC	703-5483440	VA	895.00	1	895.00	0.00	0	895.00	1.53%	1	0.00
47972	OTHER	5999	CELEBRATION PARTY EQUI	510-887-0727	CA	866.25	2	433.13	0.00	0	866.25	1.48%	2	0.00
47970	OFFICE SERVICES	7338	CONTENT MANAGEMENT COR	510-505-1100	CA	793.00	2	396.50	0.00	0	793.00	1.36%	2	0.00
47970	OFFICE SERVICES	7399	TRI STATE SEMINAR	510-3827800	CA	753.00	7	107.57	0.00	0	753.00	1.29%	7	0.00
137510	Rialto	9399	CALPERS CVENT	916-795-3433	CA	749.00	2	374.50	0.00	0	749.00	1.28%	2	0.00

Merchant Spend Analysis - Detail

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47979	WHOLESALE TRADE	5099	CUMMINS PACIFIC #27	SAN LEANDRO	CA	\$ 668.00	1	\$ 668.00	\$ 0.00	0	\$ 668.00	1.14%	1	\$ 0.00
47960	AIRLINE	3058	DELTA AIR 0062353641025	DELTA.COM	CA	647.80	1	647.80	0.00	0	647.80	1.11%	1	0.00
47979	WHOLESALE TRADE	5169	INORGANIC VENTURES, INC.	800-6696799	NJ	634.59	1	634.59	0.00	0	634.59	1.09%	1	0.00
212656	SCCLD AUTO	7538	BAYCOUNTIESDIES ELSERVINC	510-490-5665	CA	625.28	2	312.64	0.00	0	625.28	1.07%	2	1.68
47979	WHOLESALE TRADE	5085	TIFCO INDUSTRIES INC	281-571-6000	TX	625.19	1	625.19	0.00	0	625.19	1.07%	1	41.29
212656	SCCLD AUTO	7549	BERRY BROS TOWING AND TRA	800-4647215	CA	618.75	1	618.75	0.00	0	618.75	1.06%	1	0.00
47960	AIRLINE	3058	DELTA AIR 0062352768343	DELTA.COM	CA	605.20	1	605.20	0.00	0	605.20	1.04%	1	0.00
		3058	DELTA AIR 0062352768345	DELTA.COM	CA	605.20	1	605.20	0.00	0	605.20	1.04%	1	0.00
47978	VEHICLE EXPENSE	7531	GOLDEN GATE TRUCK CENTER	OAKLAND	CA	587.00	1	587.00	0.00	0	587.00	1.00%	1	8.20
212656	SCCLD AUTO	5532	AMERICAS-TIRE-C O CAN-14	UNION CITY	CA	586.25	2	293.13	0.00	0	586.25	1.00%	2	0.00
212656	SCCLD AUTO	7538	PANKEYS RADIATOR SERVICE	510-581-6804	CA	575.00	1	575.00	0.00	0	575.00	0.98%	1	0.00
47960	AIRLINE	3001	AMERICAN AIR0012385580315	FORT WORTH	TX	567.20	1	567.20	0.00	0	567.20	0.97%	1	0.00
47979	WHOLESALE TRADE	5065	STEVEN ENGINEERING	650-588-9200	CA	562.36	2	281.18	0.00	0	562.36	0.96%	2	0.00
47978	VEHICLE EXPENSE	5533	TOOLTOPIA	800-794-6793	LA	543.40	1	543.40	0.00	0	543.40	0.93%	1	49.40
217413	Prohibited Tran	8699	GOVERNMENT FINANCE	312-977-9700	IL	525.00	4	131.25	0.00	0	525.00	0.90%	4	0.00
47966	MAIL/TELEPHONE	5964	ALLIED ELECTRONICS INC	800-433-5700	TX	498.97	1	498.97	0.00	0	498.97	0.85%	1	43.80
47970	OFFICE SERVICES	7399	MITCHELL INSTRUMENTS C	760-744-2690	CA	436.56	1	436.56	0.00	0	436.56	0.75%	1	0.00

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47963	BUSINESS EXPENS	8398	ISA	919-549-8411	NC	\$ 435.00	2	\$ 217.50	\$ 0.00	0	\$ 435.00	0.74%	2	\$ 0.00
47979	WHOLESALE TRADE	5251	IN *NOZZTEQ INC	603-4136583	FL	409.00	1	409.00	0.00	0	409.00	0.70%	1	0.00
47978	VEHICLE EXPENSE	5533	DISCOUNT RAMPS.COM	888-6513431	WI	399.99	1	399.99	0.00	0	399.99	0.68%	1	0.00
47979	WHOLESALE TRADE	5039	OWEN EQUIPMENT COMPANY	503-2559055	OR	390.05	2	195.03	0.00	0	390.05	0.67%	2	33.63
47970	OFFICE SERVICES	7399	PUBLIC RISK MANAGEMENT	703-5287701	VA	385.00	1	385.00	0.00	0	385.00	0.66%	1	0.00
47979	WHOLESALE TRADE	5085	HACH COMPANY	9706631377	CO	367.50	1	367.50	0.00	0	367.50	0.63%	1	30.61
284298	VTA Catering	5812	TOGOS EATERY	UNION CITY	CA	367.32	5	73.46	0.00	0	367.32	0.63%	5	0.00
47979	WHOLESALE TRADE	5085	INSTRUMART	800-8844967	VT	365.20	1	365.20	0.00	0	365.20	0.63%	1	0.00
47979	WHOLESALE TRADE	5085	INNOVATIVE COIN LAUNDRIE	510-259-1499	CA	364.00	1	364.00	0.00	0	364.00	0.62%	1	24.00
141822	Hardware Supply	5200	THE HOME DEPOT 635	UNION CITY	CA	363.58	1	363.58	0.00	0	363.58	0.62%	1	33.05
47979	WHOLESALE TRADE	5085	OMEGA *ENGINEERING	203-359-1660	CT	360.21	1	360.21	0.00	0	360.21	0.62%	1	30.00
47979	WHOLESALE TRADE	5065	SCHNEIDERELECTRIC IT C	401-398-8450N	RI	358.19	1	358.19	0.00	0	358.19	0.61%	1	0.00
47960	AIRLINE	3000	UNITED 0162317753349	800-932-2732	TX	354.20	1	354.20	0.00	0	354.20	0.61%	1	0.00
47970	OFFICE SERVICES	7399	ACT*MSA 2016 CONFERENC	877-551-5560	TX	350.00	1	350.00	0.00	0	350.00	0.60%	1	0.00
47979	WHOLESALE TRADE	5047	IDEXX DISTRIBUTION INC	800-814-1147	ME	347.48	1	347.48	0.00	0	347.48	0.59%	1	29.48
47966	MAIL/TELEPHONE	5964	CDW GOVERNMENT	800-800-4239	IL	338.61	1	338.61	0.00	0	338.61	0.58%	1	29.10
47963	BUSINESS EXPENS	4900	PG&E/EZ-PAY	800-743-5000	CA	322.72	1	322.72	0.00	0	322.72	0.55%	1	0.00
47966	MAIL/TELEPHONE	5964	DISCOUNTMUGS.C	800-569-1980	FL	312.97	1	312.97	0.00	0	312.97	0.54%	1	0.00

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47966	E		OM											
303856	Dept stores	5311	SEARS.COM 9300	800-349-4358	IA	299.43	2	149.72	0.00	0	299.43	0.51%	2	23.99
217413	Prohibited Tran	8699	WEF WYTHE	800-6660206	VA	297.00	1	297.00	0.00	0	297.00	0.51%	1	0.00
47970	OFFICE SERVICES	7399	ACT*MSA SAN FRANCISCO	877-551-5560	TX	295.00	5	59.00	0.00	0	295.00	0.51%	5	0.00
137510	Rialto	9399	CALIFORNIA SPECIAL DISTR	916-442-7887	CA	290.00	2	145.00	0.00	0	290.00	0.50%	2	0.00
47979	WHOLESALE TRADE	5085	BALLUFF INC	859-7272200	KY	284.38	1	284.38	0.00	0	284.38	0.49%	1	0.00
47963	BUSINESS EXPENS	4814	ATT*WEBSITE SOLUTIONS	888-932-4678	TX	280.03	1	280.03	0.00	0	280.03	0.48%	1	0.00
138753	SEMINAR/CONF.	8641	CALIFORNIA SOCIETY OF MUN	916-2312137	CA	275.00	1	275.00	0.00	0	275.00	0.47%	1	0.00
47963	BUSINESS EXPENS	8398	NACE INTERNATIONAL	800-797-6223	TX	250.00	1	250.00	0.00	0	250.00	0.43%	1	0.00
137510	Rialto	9399	CITY OF FOSTER CITY EMID	650-286-3265	CA	250.00	1	250.00	0.00	0	250.00	0.43%	1	0.00
47979	WHOLESALE TRADE	5072	THE LIGHTHOUSE	HAYWARD	CA	238.66	1	238.66	0.00	0	238.66	0.41%	1	0.00
47979	WHOLESALE TRADE	5192	SAN FRANCISCO BIZ TIMES	415-989-2522	CA	237.50	1	237.50	0.00	0	237.50	0.41%	1	0.00
141822	Hardware Supply	5200	THE HOME DEPOT #6964	NEWARK	CA	232.07	3	77.36	0.00	0	232.07	0.40%	3	20.13
47963	BUSINESS EXPENS	8299	LORMAN EDUCATION SERVICE	715-833-3940	WI	232.05	1	232.05	0.00	0	232.05	0.40%	1	21.10
47979	WHOLESALE TRADE	5047	TELEDYNE ISCO	402-4640231	NE	229.90	1	229.90	0.00	0	229.90	0.39%	1	0.00
217413	Prohibited Tran	8699	CAPIO - CA ASSOCIATION OF	530-9245444	CA	225.00	1	225.00	0.00	0	225.00	0.39%	1	0.00
47960	AIRLINE	3066	SOUTHWES 5262442293345	800-435-9792	TX	219.96	1	219.96	0.00	0	219.96	0.38%	1	0.00
47971	OFFICE SUPPLIES	9402	USPS 05802604033510967	UNION CITY	CA	210.92	4	52.73	0.00	0	210.92	0.36%	4	0.00

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47972	OTHER	5732	METRO MOBILE COMMUNICATIO	BELMONT	CA	\$ 210.52	1	\$ 210.52	\$ 0.00	0	\$ 210.52	0.36%	1	\$ 17.40
47972	OTHER	5732	BEST BUY 00001446	UNION CITY	CA	207.86	1	207.86	0.00	0	207.86	0.36%	1	18.87
47963	BUSINESS EXPENS	8299	FREDPRYOR CAREERTRACK	800-5563012	KS	199.00	1	199.00	0.00	0	199.00	0.34%	1	0.00
47971	OFFICE SUPPLIES	5942	AMAZON.COM AMZN.COM/BILL	AMZN.COM/BILL	WA	196.86	3	65.62	0.00	0	196.86	0.34%	3	17.90
47979	WHOLESALE TRADE	5199	TAP PLASTICS # 20	FREMONT	CA	196.83	3	65.61	0.00	0	196.83	0.34%	3	0.24
47979	WHOLESALE TRADE	5085	DWYER INSTRUMENTS INC	219-8798868	IN	194.20	1	194.20	0.00	0	194.20	0.33%	1	16.38
47979	WHOLESALE TRADE	5072	C H BULL COMPANY	6508378400	CA	188.44	1	188.44	0.00	0	188.44	0.32%	1	0.00
47962	BUILDING SERVIC	780	REED AND GRAHAM INC	SAN JOSE	CA	184.88	1	184.88	0.00	0	184.88	0.32%	1	14.88
281845	Food Exceptions	5814	MR PICKLES 325 - UNION	UNION CITY	CA	180.39	3	60.13	0.00	0	180.39	0.31%	3	0.00
47979	WHOLESALE TRADE	5074	CAL-STEAM 2504	510-512-7700	CA	176.45	2	88.23	0.00	0	176.45	0.30%	2	7.34
47960	AIRLINE	3066	SOUTHWES 5262437984504	800-435-9792	TX	175.96	1	175.96	0.00	0	175.96	0.30%	1	0.00
47970	OFFICE SERVICES	7399	EB GOVERNMENT SOCIAL	801-413-7200	CA	175.00	1	175.00	0.00	0	175.00	0.30%	1	0.00
281845	Food Exceptions	5814	TOGOS #332863	510-475-8641	CA	174.54	2	87.27	0.00	0	174.54	0.30%	2	0.00
47960	AIRLINE	3066	SOUTHWES 5262440493385	800-435-9792	TX	170.96	1	170.96	0.00	0	170.96	0.29%	1	0.00
47979	WHOLESALE TRADE	5074	FRAN A. OLSEN	925-961-8888	CA	167.36	1	167.36	0.00	0	167.36	0.29%	1	0.00
47970	OFFICE SERVICES	5968	WEB*NETWORKSO LUTIONS	888-642-9675	FL	155.94	1	155.94	0.00	0	155.94	0.27%	1	0.00
141822	Hardware Supply	5200	LOWES #01132*	UNION CITY	CA	153.87	1	153.87	0.00	0	153.87	0.26%	1	13.99
47970	OFFICE SERVICES	7399	BOXWOOD TECHNOLOGY	888-4918833	MD	150.00	1	150.00	0.00	0	150.00	0.26%	1	0.00

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47960	AIRLINE	3066	SOUTHWES 5262434828626	800-435-9792	TX	\$ 145.96	1	\$ 145.96	\$ 0.00	0	\$ 145.96	0.25%	1	\$ 0.00
		3066	SOUTHWES 5262434830505	800-435-9792	TX	145.96	1	145.96	0.00	0	145.96	0.25%	1	0.00
		3066	SOUTHWES 5262441294477	800-435-9792	TX	145.96	1	145.96	0.00	0	145.96	0.25%	1	0.00
47960	AIRLINE	3066	SOUTHWES 5262440486092	800-435-9792	TX	139.96	1	139.96	0.00	0	139.96	0.24%	1	0.00
		3066	SOUTHWES 5262441018762	800-435-9792	TX	139.96	1	139.96	0.00	0	139.96	0.24%	1	0.00
47979	WHOLESALE TRADE	5199	BAUDVILLE INC.	800-728-0888	MI	138.38	1	138.38	0.00	0	138.38	0.24%	1	0.00
47979	WHOLESALE TRADE	5047	IN *I.R.I. PRODUCTS, PRO-	209-5451691	CA	125.00	1	125.00	0.00	0	125.00	0.21%	1	10.00
47970	OFFICE SERVICES	8734	ENVIRONMENTAL RESOURCE	303-431-8454	CO	123.62	1	123.62	0.00	0	123.62	0.21%	1	0.00
119156	MCC001	3057	VIRGIN AMER 9842147847926	SAN FRANCISCO	CA	123.20	1	123.20	0.00	0	123.20	0.21%	1	0.00
281845	Food Exceptions	5814	CHIPOTLE 1529	UNION CITY	CA	121.57	4	30.39	0.00	0	121.57	0.21%	4	0.00
284298	VTA Catering	5812	BRONCO BILLY'S PIZZA	UNION CITY	CA	120.73	1	120.73	0.00	0	120.73	0.21%	1	0.00
47979	WHOLESALE TRADE	5085	GIH*GLOBALINDUS TRIALEQ	800-645-2986	FL	120.53	1	120.53	0.00	0	120.53	0.21%	1	0.00
47961	AUTO/RV DEALERS	5511	STEWART CHRYSLER DODGE	COLMA	CA	119.90	1	119.90	0.00	0	119.90	0.21%	1	0.00
47979	WHOLESALE TRADE	5047	TFS*THERMOELEC TRONNORT	800-532-4752	FL	114.10	2	57.05	0.00	0	114.10	0.20%	2	6.10
209283	4214	4214	FEDEX FREIGHT INC	870-741-9000	AR	113.60	1	113.60	0.00	0	113.60	0.19%	1	0.00
47971	OFFICE SUPPLIES	5942	AMAZON.COM	AMZN.COM/BILL	WA	110.21	2	55.11	0.00	0	110.21	0.19%	2	10.02
47972	OTHER	5732	FRY'S ELECTRONICS #21	FREMONT	CA	109.48	1	109.48	0.00	0	109.48	0.19%	1	9.50
141822	Hardware Supply	5200	LOWES #01132*	510-476-0600	NC	108.90	1	108.90	0.00	0	108.90	0.19%	1	9.90

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47979	WHOLESALE TRADE	5085	THE SEAL CONNECTION	SAN LEANDRO	CA	\$ 101.00	1	\$ 101.00	\$ 0.00	0	\$ 101.00	0.17%	1	\$ 0.00
47963	BUSINESS EXPENS	8299	PESTICIDE APPLICATORS PRO	831-442-3536	CA	100.00	1	100.00	0.00	0	100.00	0.17%	1	0.00
217413	Prohibited Tran	5992	FREMONT FLOWERS AND GIFT	FREMONT	CA	99.58	1	99.58	0.00	0	99.58	0.17%	1	0.00
47971	OFFICE SUPPLIES	5943	STAPLES 00112995	FREMONT	CA	97.44	1	97.44	0.00	0	97.44	0.17%	1	8.45
284298	VTA Catering	5812	BUCKHORN GRILL UNION CITY	UNION CITY	CA	94.60	1	94.60	0.00	0	94.60	0.16%	1	0.00
47970	OFFICE SERVICES	8911	IN *BURLINGAME ENGINEERS	925-9435200	CA	92.80	1	92.80	0.00	0	92.80	0.16%	1	7.80
47972	OTHER	5999	BESTVALSUP.COM	631-2491435	NY	90.58	1	90.58	0.00	0	90.58	0.16%	1	0.00
138753	SEMINAR/CONF.	8641	UNION CITY CHAMBER OF COM	510-952-9637	CA	90.00	1	90.00	0.00	0	90.00	0.15%	1	0.00
47979	WHOLESALE TRADE	5099	IN *SWAN ASSOCIATES INCOR	707-7461989	CA	89.27	1	89.27	0.00	0	89.27	0.15%	1	7.34
47979	WHOLESALE TRADE	5072	BURLINGTON SAFETY LABORAT	925-8661412	CA	85.00	1	85.00	0.00	0	85.00	0.15%	1	0.00
47961	AUTO/RV DEALERS	5511	MISSION VALLEY FORD PARTS	SAN JOSE	CA	81.23	1	81.23	0.00	0	81.23	0.14%	1	0.00
47963	BUSINESS EXPENS	8299	NCS*ITL CDE COUNCIL EX	800-511-3478	MN	80.00	1	80.00	0.00	0	80.00	0.14%	1	0.00
47971	OFFICE SUPPLIES	5943	OFFICEMAX/OFFIC EDEPOT6177	UNION CITY	CA	75.89	1	75.89	0.00	0	75.89	0.13%	1	6.90
303856	Dept stores	5311	SEARS.COM 9300	800-349-4358	IA	69.28	1	69.28	0.00	0	69.28	0.12%	1	6.30
217413	Prohibited Tran	7216	GREEN LEAF CLEANERS	FREMONT	CA	60.00	2	30.00	0.00	0	60.00	0.10%	2	0.00
235401	REGISTRATION	8111	PAYPAL *LIEBERTCASSIDY	402-935-7733	CA	60.00	1	60.00	0.00	0	60.00	0.10%	1	0.00
281845	Food Exceptions	5462	SQ *OH CAKE/ LAUREL / SPE	FREMONT	CA	60.00	1	60.00	0.00	0	60.00	0.10%	1	0.00
47970	OFFICE SERVICES	8911	CA SURVEYING & DRAFTNG	DUBLIN	CA	57.86	1	57.86	0.00	0	57.86	0.10%	1	4.00

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	WHOLESALE TRADE	5251	PAYPAL *WELDSUPPORT	402-935-7733	CA	\$ 56.97	1	\$ 56.97	\$ 0.00	0	\$ 56.97	0.10%	1	\$ 0.00
281845	Food Exceptions	5814	MR PICKLES 325 - UNION	510-431-3488	CA	55.65	1	55.65	0.00	0	55.65	0.10%	1	0.00
281845	Food Exceptions	5411	LUCKY #782 UNION CI	UNION CITY	CA	50.54	3	16.85	0.00	0	50.54	0.09%	3	0.00
281845	Food Exceptions	5814	ANDERSEN BAKERY -UNION LA	UNION CITY	CA	48.75	1	48.75	0.00	0	48.75	0.08%	1	0.00
47970	OFFICE SERVICES	7338	FEDEXOFFICE 00007393	UNION CITY	CA	47.75	1	47.75	0.00	0	47.75	0.08%	1	0.00
284298	VTA Catering	5812	CHILI'S UNION CITY	UNION CITY	CA	46.87	1	46.87	0.00	0	46.87	0.08%	1	0.00
47978	VEHICLE EXPENSE	5533	PEPBOYS STORE 847	SAN LEANDRO	CA	46.19	1	46.19	0.00	0	46.19	0.08%	1	0.00
47979	WHOLESALE TRADE	5065	GRAYBAR ELECTRIC COMPANY	314-573-9200	MO	45.18	1	45.18	0.00	0	45.18	0.08%	1	4.11
47970	OFFICE SERVICES	7399	YAHOO SMALL BUSINESS	866-438-1582	CA	41.82	3	13.94	0.00	0	41.82	0.07%	3	0.00
47979	WHOLESALE TRADE	5074	PLUMBZILLA	800-5200556	NC	35.90	1	35.90	0.00	0	35.90	0.06%	1	0.00
212656	SCCLD AUTO	5599	PETERSON SAN LEANDRO	SAN LEANDRO	CA	34.46	1	34.46	0.00	0	34.46	0.06%	1	0.00
47978	VEHICLE EXPENSE	5533	PEPBOYS STORE 816	UNION CITY	CA	32.99	1	32.99	0.00	0	32.99	0.06%	1	0.00
47979	WHOLESALE TRADE	5099	ZEMARC CORPORATION	323-721-5598	CA	30.69	1	30.69	0.00	0	30.69	0.05%	1	2.79
47978	VEHICLE EXPENSE	4784	FASTRAK VIOLATION CENT	415-486-8655	CA	30.00	1	30.00	0.00	0	30.00	0.05%	1	0.00
47978	VEHICLE EXPENSE	4784	FASTRAK CSC	415-486-8655	CA	25.00	1	25.00	0.00	0	25.00	0.04%	1	0.00
47979	WHOLESALE TRADE	5399	HARBOR FREIGHT TOOLS 638	FREMONT	CA	20.95	1	20.95	0.00	0	20.95	0.04%	1	1.82
47979	WHOLESALE TRADE	5251	EREPLACEMENTPA RTS.COM	866-802-6383	UT	20.14	1	20.14	0.00	0	20.14	0.03%	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	WHOLESALE TRADE	5085	SHAMROCK SUPPLY CO INC	714-4428241	CA	\$ 19.99	1	\$ 19.99	\$ 0.00	0	\$ 19.99	0.03%	1	\$ 0.00
47970	OFFICE SERVICES	7399	AMZ*CHICKADEE SOLUTI	207-3708853	WA	16.07	1	16.07	0.00	0	16.07	0.03%	1	0.00
303856	Dept stores	5311	SEARS.COM 9300	800-349-4358	IA	14.88	1	14.88	0.00	0	14.88	0.03%	1	0.00
47967	MEDICAL	5912	RITE AID STORE - 5942	UNION CITY	CA	7.25	1	7.25	0.00	0	7.25	0.01%	1	0.00
47972	OTHER	5999	PAYPAL *ROCCAFORTEA	402-935-7733	CA	4.44	1	4.44	0.00	0	4.44	0.01%	1	0.00
150085	MCC5969	5969	AMERICAN PUBLIC WORKS	8164726100	MO	15.00	1	15.00	15.00	1	0.00	0.00%	2	0.00
303856	Dept stores	5311	SEARS.COM 9300	WEST DES MOIN	IA	0.00	0	0.00	58.27	2	(58.27)	0.00%	2	5.30
47979	WHOLESALE TRADE	5169	ROYAL MFG CO LP	TULSA	OK	0.00	0	0.00	109.65	1	(109.65)	0.00%	1	0.00
284298	VTA Catering	5812	DICKKEYS CA153	FREMONT	CA	0.00	0	0.00	142.35	1	(142.35)	0.00%	1	0.00
47963	BUSINESS EXPENS	4900	PG&E/EZ-PAY	800-743-5000	CA	0.00	0	0.00	322.72	1	(322.72)	(0.55%)	1	0.00
Total						\$59,063.47			\$ 648.19		\$58,415.28		244	\$ 1,004.79

Total Number of Records: 151

End of Report

Merchant Spend Analysis - Detail Output Parameter Page

Cycle Close Date Range: 07/2016 to 09/2016

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
4TH 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	Fremont - State of the City Luncheon: Registration				45.00			
	Newark - State of the City Luncheon: Registration				42.00			
	TOTAL	0.00	0.00	0.00	87.00	5000.00	87.00	4913.00
HANDLEY, TOM	Union City Chamber of Commerce - Spirit Awards Luncheon: Registration		45.00					
	Union City - State of the City Luncheon: Registration		30.00					
	CASA Winter Conference: Registration Fee			525.00				
	CASA Winter Conference: Airfare			155.20				
	CASA Winter Conference: Rental Car			132.69				
	CASA Winter Conference: Lodging				498.00			
	CASA Winter Conference: Meals				20.94			
	CASA Winter Conference: Mileage				27.51			
	Fremont - State of the City Luncheon: Registration				45.00			
	Newark - State of the City Luncheon: Registration				42.00			
	TOTAL	0.00	75.00	812.89	633.45	5000.00	1,521.34	3478.66
HARRISON, JENNIFER	CSDA Webinar: General Manager Evaluations		55.00					
	Newark - State of the City Luncheon: Registration				42.00			
	TOTAL	0.00	55.00	0.00	42.00	5000.00	97.00	4903.00
KITE, PAT	CSDA Webinar: Understanding Board Member & District Liability Issues		55.00					
	CSDA Webinar: General Manager Evaluations		55.00					
	Newark - State of the City Luncheon: Registration				42.00			
	CSDA Webinar: LAFCo 101 for Special Districts				65.00			
	CSDA Webinar: Annual Employment Law Update				55.00			
	CSDA Webinar: California Tort Claims Requirements				55.00			
	TOTAL	0.00	110.00	0.00	217.00	5000.00	327.00	4673.00
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				
	CSDA Webinar: Completing Statement of Economic Interest - Form 700				65.00			
	CSDA Webinar: New Developments in the Brown Act				65.00			
	CWEA Association Membership Renewal				164.00			
	Fremont - State of the City Luncheon: Registration				45.00			
	Newark - State of the City Luncheon: Registration				42.00			
	CWEA Annual Conference 2016: Registration Fee				640.00			
	CWEA Annual Conference 2016: Lodging				245.83			
	CWEA Annual Conference 2016: Meals				44.43			
	CWEA Annual Conference 2016: Mileage				15.50			
	25% Reimbursement of iPad Related Expenses				249.43			
	TOTAL	285.70	80.00	65.00	1,576.19	5000.00	2,006.89	2993.11
	GRAND TOTAL	285.70	320.00	877.89	2,555.64	25000.00	4,039.23	20960.77

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

Regina McEvoy

From: bmoore@fremontbusiness.com
Sent: Wednesday, March 09, 2016 3:12 PM
To: Regina McEvoy
Subject: [BULK] Event Registration

Fremont Chamber of Commerce

Thank you for registering for State of the City Annual Meeting & Luncheon

3/24/2016 11:30 AM - 2:00 PM
Marriott Fremont Silicon Valley
46100 Landing Pkwy.
Fremont, CA 94538
[Add to Outlook calendar](#)
[Add to Google calendar](#)

Thank you for registering. Please print out the confirmation page for your records.

Below are the details of your registration.

Sign Up Date: 3/9/2016
Sign Up Information: Regina McEvoy
Union Sanitary District
5072 Benson Road
Union City, CA 94587
(510) 477-7503
reginam@unionsanitary.ca.gov

Registration Item	Confirmation #	Quantity	Price
State of the City Ticket - Regular Lunch	292	3	\$135.00

Attendees:

Michelle Powell michellep@unionsanitary.ca.gov
Tom Handley thandley@unionsanitary.ca.gov
Manny Fernandez
mfernandez@unionsanitary.ca.gov

State of the City Ticket - Vegetarian
Lunch

293

1 \$45.00

Attendees:

Anjali Lathi alathi@unionsanitary.ca.gov

Sub-Total \$180.00

Taxes \$0.00

Total \$180.00

Amount Paid \$180.00

Amount Due \$0.00

Regina McEvoy

From: Auto-Receipt <noreply@mail.authorize.net>
Sent: Tuesday, April 05, 2016 11:43 AM
To: Regina McEvoy
Subject: Transaction Receipt from NEWARK CHAMBER OF COMMERCE for \$210.00 (USD)

Order Information

Description: Newark State of the City Luncheon Reservations

Billing Information

Regina McEvoy
Union Sanitary District
5072 Benson Rd
Union City, CA 94587
reginam@unionsanitary.ca.gov
510-477-7503

Shipping Information

Total: \$210.00 (USD)

Payment Information

Date/Time: 5-Apr-2016 11:43:27 PDT
Transaction ID: 8136558101
Payment Method: Visa
Transaction Type: Purchase
Auth Code: 071802
Entry Mode: Keyed

Merchant Contact Information

NEWARK CHAMBER OF COMMERCE
Newark, CA 94560
US
valerie@newark-chamber.com

State of the City 2016

Luncheon Presentation - Mayor Al Nagy



NEWARK
CHAMBER OF
COMMERCE

Thursday, April 21, 2016

DoubleTree by Hilton, 39900 Balentine Drive, Newark
11:15 a.m. to 12:00 p.m. – Early Bird Networking & “Mini Showcase”
12:00 p.m. to 12:45 p.m. – Luncheon & Entertainment
12:45 p.m. to 1:30 p.m. – State of the City Address



NEWARK
CHAMBER OF
COMMERCE

Register & pay by credit card at www.newark-chamber.com, or by phone 510-578-4500; Scan & email this form to info@newark-chamber.com; or, Mail form with & check payable to the Newark Chamber of Commerce, to 37101 Newark Blvd., Newark 94560.

For this event – ADVANCE RESERVATIONS ONLY

Name see below
 Company Name Union Sanitary District
 Name(s) of Guest(s) Boardmember Pat Kite, Boardmember Tom Hendley,
Boardmember Manny Fernandez, Boardmember Anjali Lathi, General Manager Paul Eldredge
 Address 5072 Benson Road City Union City Zip 94557
 Phone 510-477-7503 Fax — Email regina.m@union-sanitary.ca.gov

All attendees must have prepaid luncheon reservations. There is no public “gallery” seating at this event.
 Chamber members attending may reserve a “table top” business display space, space is limited.

Sponsorship Opportunities

Presenting Sponsorship \$2,000	Table for 8, company commentary at podium, full page program ad, Featured Profile in newsletter, website banner ad, display space & grand-size banner at event.
Platinum Event Sponsorship \$1,000	Table for 8, recognition at event, full page program ad, website logo ad, display space & grand-size banner at event.
Gold Event Sponsorship \$750	Table for 8, recognition at event, ½ pg program ad, display space & large banner at event
Table Sponsorship \$500	Table for 8, recognition at event, ¼ pg program ad, display space.
Program Sponsorship \$150	Seating for 2, recognition at event, logo in program, display space.

All sponsorship funds are used to support Chamber business programs, services and events in the Newark area. Please ask about other event & program sponsorships, including specially priced multi-event sponsorship packages. Thank you!

Chamber Members \$42/ticket: | 4 Chicken | 1* Vegetarian | Total # 5 Total \$ 210.00
 Non-Members \$55/ticket: | — Chicken | — Vegetarian | Total # — Total \$ —

SPONSORSHIP: Please list my company as a State of the City SPONSOR at the \$ — level.
 TABLE TOP DISPLAY: Please reserve a ½ table display space at \$25 or, a full display space at \$50

My check is enclosed. For ticket confirmation please email me at: _____
 Please charge my: Visa Mastercard American Express Or, I will pay online at www.newark-chamber.com
 Name (as it appears on the Credit Card) _____
 Card # _____ Exp Date _____ Security Code _____
 Billing Address of Card (incl. zip) _____
 Signature _____ Date _____

Reserve and sponsor early, don't delay.

* Please note the following dietary restrictions: - vegan - gluten-free - no soy - no celery - no bell peppers

EXPENSE/PAYMENT REQUEST FORM

1. Requester

Requested by: Tom Handley

Date Needed:

What type of payment are you requesting?

- Prepayment A payment that is made in advance (seminars, memberships, permits, etc.). Attach supporting documents.
- Reimbursement A payments that is for items already purchased. Receipts must be attached for all expenses.

2. Reimbursement

Make check payable to: Thomas Handley

- Return Check to:
- Mail to Address:



3. Expense Description:

Event Dates: From: 1/19/2016 To: 1/21/2016

Description: CASA Winter Conference

Expense Type	Account to Charge	Amount
Meals (travel related)	20-160-5220-106	20.94
Lodging (travel related)	20-160-5220-106	498.00
Mileage (travel related)	20-160-5220-106	27.51
Total Payment:		\$546.45

Meals - Travel Related

Did this travel involve an overnight stay? Yes No

Date	Breakfast - \$20 Max	Lunch - \$25 Max	Dinner - \$40 Max	Daily Total - \$75 Max
1/19/2016			20.94	20.94

Total Meals Expense: 20.94

Mileage

Date	# of trip		Miles	Rate	Reimbursement
1/19/2016	1	From 5072 Benson Road, Union City, CA 94587 To 160 Produce Avenue, San Francisco, CA	25.79	0....	13.929
1/21/2016	1	From 160 Produce Avenue, San Francisco, CA To 5072 Benson Road, Union City, CA 94587	25.15	0....	13.579
Total Miles			50.94		
Total Mileage Expense					27.51

Note:

Meal expense included in lodging receipt. Meal was chicken, rice, and vegetables plate. No alcohol was included in the meal.
Mileage to and from Tom's home to Park N' Fly at SFO. Calculated from the District as travel was on a work day.

 Tom Handley - CASA Conference Receipt.pdf
125.98 KB

MANAGER APPROVAL

- Approve
- Reject

Comments:

Approved By: paule

2016-06-01T09:16:30

ACCOUNTING

- Approve
- Reject

Comments:

Approved By: sharonw

2016-06-01T10:55:48



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BY HILTON™

GOLF RESORT PALM SPRINGS

67967 Vista Chino • Cathedral City, CA 92234
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For reservations across the nation
www.doubletree.com or 1-800-222-TREE

Name & Address

HANDLEY, TOM

Room 449/NKR
Arrival Date 1/19/2016 6:49:00 PM
Departure Date 1/22/2016

Adult/Child 1/0
Room Rate 119.00

Rate Plan: LV8
HH #
AL:
Car:

Folio

Confirmation Number: 80202682

1/22/2016

HILTON
HHONORS

DATE	REFERENCE	DESCRIPTION	AMOUNT
1/19/2016	47666	POLANCO KITCHEN DINNER	\$16.00
1/19/2016	47666	FOOD TAX	\$1.44
1/19/2016	47667	POLANCO KITCHEN TIPS	\$3.50
1/19/2016	47834	RESORT FEE 25	\$25.00
1/19/2016	47834	OCCUPANCY TAX	\$3.00
1/19/2016	47834	OCCUPANCY COUNTY TAX	\$0.50
1/19/2016	47834	TMD/CVB ASSESSMENT	\$0.25
1/19/2016	47835	GUEST ROOM	\$119.00
1/19/2016	47835	TAXES	\$18.25
1/20/2016	48230	RESORT FEE 25	\$25.00
1/20/2016	48230	OCCUPANCY TAX	\$3.00
1/20/2016	48230	OCCUPANCY COUNTY TAX	\$0.50
1/20/2016	48230	TMD/CVB ASSESSMENT	\$0.25
1/20/2016	48231	GUEST ROOM	\$119.00
1/20/2016	48231	TAXES	\$18.25
1/21/2016	48815	RESORT FEE 25	\$25.00
1/21/2016	48815	OCCUPANCY TAX	\$3.00
1/21/2016	48815	OCCUPANCY COUNTY TAX	\$0.50
1/21/2016	48815	TMD/CVB ASSESSMENT	\$0.25
1/21/2016	48816	GUEST ROOM	\$119.00
1/21/2016	48816	TAXES	\$18.25
		BALANCE	\$518.94



ACCOUNT NO.
CARD MEMBER NAME
ESTABLISHMENT NO. & LOCATION <small>ESTABLISHMENT AGREES TO TRANSFER TO CARD HOLDER FOR PAYMENT</small>
CARD MEMBER'S SIGNATURE X

DATE OF CHARGE	FOLIO NO./CHECK NO. 35391 A
AUTHORIZATION	INITIAL
PURCHASES & SERVICES	
TAXES	
TIPS & MISC.	
TOTAL AMOUNT	

MERCHANDISE AND/OR SERVICES PURCHASED ON THIS CARD SHALL NOT BE RESOLD OR RETURNED FOR A CASH REFUND.

PAYMENT DUE UPON RECEIPT



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For reservations across the nation
www.doubletree.com or 1-800-222-TREE

Name & Address

HANDLEY, TOM

Room 449/NKR
Arrival Date 1/19/2016 6:49:00 PM
Departure Date 1/22/2016

Adult/Child 1/0
Room Rate 119.00

Rate Plan: LVR
HH #
AL:
Car:

Folio

Confirmation Number: 80202682

1/22/2016

HILTON HHONORS

DATE	REFERENCE	DESCRIPTION				AMOUNT
EXPENSE REPORT SUMMARY						
		1/19/2016	1/20/2016	1/21/2016	STAY TOTAL	
ROOM AND TAX		\$137.25	\$137.25	\$137.25	\$411.75	
FOOD AND BEVERAGE		\$16.00	\$0.00	\$0.00	\$16.00	
MISCELLANEOUS		\$25.00	\$25.00	\$25.00	\$75.00	
OTHER		\$5.19	\$3.75	\$3.75	\$12.69	
DAILY TOTAL		\$183.44	\$166.00	\$166.00	\$515.44	
<p>You have earned approximately 7480 Hilton HHonors points for this stay. Hilton HHonors(R) stays are posted within 72 hours of checkout. To check your earnings or book your next stay at more than 3,900</p> <p>Thank you for choosing DoubleTree! Come back soon to enjoy our warm chocolate chip cookies and relaxed hospitality. For your next trip visit us at doubletree.com for our best available rates!</p>						



ACCOUNT NO.
CARD MEMBER NAME
ESTABLISHMENT NO. & LOCATION <small>ESTABLISHMENT AGREES TO TRANSMIT TO CARD HOLDER FOR PAYMENT</small>
CARD MEMBER'S SIGNATURE X

DATE OF CHARGE	FOLIO NO./CHECK NO. 35391 A
AUTHORIZATION	INITIAL
PURCHASES & SERVICES	
TAXES	
TIPS & MISC.	
TOTAL AMOUNT	

MERCHANDISE AND/OR SERVICES PURCHASED ON THIS CARD SHALL NOT BE RESOLD OR RETURNED FOR A CASH REFUND.

PAYMENT DUE UPON RECEIPT

Regina McEvoy

From: Auto-Receipt <noreply@mail.authorize.net>
Sent: Thursday, April 14, 2016 5:26 PM
To: Regina McEvoy
Subject: Transaction Receipt from NEWARK CHAMBER OF COMMERCE for \$42.00 (USD)

Order Information

Description: Newark State of the City, Add'l reservation

Billing Information

Regina McEvoy
Union Sanitary District
5072 Benson Rd
Union City, CA 94587
reginam@unionsanitary.ca.gov

Shipping Information

Total: \$42.00 (USD)

Payment Information

Date/Time: 14-Apr-2016 17:25:31 PDT
Transaction ID: 8317647771
Payment Method: Visa
Transaction Type: Purchase
Auth Code: 035776
Entry Mode: Keyed

Merchant Contact Information

NEWARK CHAMBER OF COMMERCE
Newark, CA 94560
US
valerie@newark-chamber.com

Reservation
for Board
President Tay

Browser address bar: https://members.cstda.net/IMIS15/Shared_Content/Shop/Order_Confirmation.aspx

Pages: default | Order Confirmation | Home | Union Sanitary District

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Page Safety Tools

Hi, Kristina Silva | Logout |

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(877) 924.2732 | (916) 442.7887



Home Advocacy Professional Development Conferences Membership Special Districts

Order Confirmation

California Special Districts Association
1112 I Street, Suite 200, Sacramento, CA 95814

Order Number	55594
Order Date	6/20/2016
Bill To	Ms. Kristina Silva
Payment Method	Visa *
Name on Card	Kristina Silva
Ship To	Ms. Kristina Silva 5072 Benson Road Union City, CA 94587

Item	Quantity	Price	Total
Webinar: LAFCo 101 for Special Districts - L. Patricia Kite When: 6/29/2016 - 6/29/2016 Registration Option: Webinar: LAFCo 101 for Special Districts	1	65.00	65.00
		Item Total	65.00
		Transaction Grand Total	65.00

A confirmation is being sent to: kristinas@unionsanitary.ca.gov
Send another copy to:

If you purchased a webinar or an on-demand webinar you can access it [Here](#)

California Special Districts Association
 1112 I Street, Suite 200
 Sacramento, CA 95814
 (877) 924-CSDA
 (916) 442-7889

Invoice No. 35595

INVOICE

Sold To: Ms. Pat Kite
 Director
 Union Sanitary District

Ship To: Ms. Pat Kite

Account No.	Purchase Order No.	Order Date	Order Number	Terms	Invoice Date	Shipping Method	
1558		12/15/2015	52495	Net 30	12/15/2015	United States Postal Service	
Qty Ordered	Qty Shipped	Back-Ordered	Item Code Description	Unit Price	Extended Price		
1	1		WEBANNEMLAW Annual Employment Law Update	55.00	55.00		
1	1		WEBCATORTCLAIMS California Tort Claims Requirements	55.00	55.00		
Line Item Total	Freight	Handling	Restocking/ Cancellation Fee	Tax	Subtotal	Amount Received	Amount Due
110.00					110.00	110.00	0.00



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

Webinar: Completing Statement of Economic Interest- Form 700
Thursday, March 17, 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
Webinar: Completing Statement of Economic Interest	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 -11:30 am



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

Webinar: New Developments in the Brown Act
Thursday, April 07, 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
Webinar: New Developments in the Brown Act	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

CWEA

California Water Environment
Association
7677 Oakport St., Suite 600
Oakland, CA 94621

Customer #:

Anjali Lathi
Union Sanitary District
5072 Benson Road
Union City, CA 94587

Receipt

Invoice # : 201845
Invoice Date: 03/01/2016

Description	Quantity	Price	Discount	Amount
CWEA Association Membership	1	\$164.00	\$0.00	\$164.00
Local Section Membership: San Francisco Bay Section	1	\$0.00	\$0.00	\$0.00

Last Payment On This Invoice:

Paid by Credit Card on 03/01/2016

Invoice Total	\$164.00
Taxes	\$0.00
Amount Paid	\$164.00
PLEASE PAY	\$0.00

PLEASE DETACH AND REMIT WITH YOUR PAYMENT

Invoice#: 201845

Customer #

Anjali Lathi
Union Sanitary District
5072 Benson Road
Union City, CA 94587

Select Payment Method	
<input type="checkbox"/>	Check Enclosed
Card Provider _____	Exp Date ____ / ____
Card # _____	
Card Holder's Name _____	
Card Holder's Signature _____	

Remit Payment To:

California Water Environment Association

7677 Oakport St., Suite 600, Oakland, CA 94621(P) 510.382.7800 (F)
510.382.7810

Total Due: **\$0.00**

Amt Remitted : _____

Regina McEvoy

From: yourteam@cwea.org
Sent: Friday, April 22, 2016 3:52 PM
To: Anjali Lathi_ExtMail1
Subject: Confirmation of Your CWEA Order #205804

Thank you for your recent order with CWEA. The details of your order follow below. Please e-mail or call us if you have any questions.

Customer's Name: Anjali Lathi
Date: 4/22/2016

Payment Code: 170096
Transaction Date: 4/22/2016

Total: 640.00
Payment Amount: \$640.00
Balance: 0.00
authorization:
Reference Number: BR0PD3C93EAA

Bill To:

Anjali Lathi
Union Sanitary District
5072 Benson Road
Union City, CA 94587

Payment Method: Credit Card

Customer Qty	Item	Sub-Total	Discount	Paid	Balance
Lathi Anjali 1.00	AC16 Regular Member Full Conference	595.00	0.00	595.00	0.00
Lathi Anjali 1.00	Senior Utility Leadership Session (GM's Lunch and Facilitated Discussion)	0.00	0.00	0.00	0.00
Lathi Anjali 1.00	M2: Exhibit Hall Luncheon (Thursday, 4/28) - Free with Full or One Day Registration	0.00	0.00	0.00	0.00
Lathi Anjali 1.00	M3: Awards Lunch (Friday, 4/29)	45.00	0.00	45.00	0.00

Your CWEA Team
yourteam@cwea.org
510-382-7800

California Water Environment Association
Protecting our water environment through education and certification
7677 Oakport Street, Suite 600
Oakland, CA 94621

EXPENSE/PAYMENT REQUEST FORM

1. Requester

Requested by: Anjali Lathi Date Needed:

What type of payment are you requesting?

- Prepayment A payment that is made in advance (seminars, memberships, permits, etc.). Attach supporting documents.
- Reimbursement A payments that is for items already purchased. Receipts must be attached for all expenses.

2. Reimbursement

Make check payable to: Anjali Lathi



- Return Check to:
- Mail to Address:

3. Expense Description:

Event Dates: From: 4/27/2016 To: 4/28/2016

Description: CWEA Conference Expenses for Director Anjali Lathi - Hotel, Meals, and Mileage Reimbursement

Expense Type	Account to Charge	Amount
Lodging (travel related)	20-160-5220-102	245.83 ✓
Meals (travel related)	20-160-5220-102	45.60 44.43 SW
Mileage (travel related)	20-160-5220-102	15.50
$28.7 \times .54 = 15.50$		Total Payment: 306.93 305.76 SW

Meals - Travel Related

Did this travel involve an overnight stay? Yes No

Date	Breakfast - \$20 Max	Lunch - \$25 Max	Dinner - \$40 Max	Daily Total - \$75 Max
4/28/2016		20.36 19.19 SW	25.24	45.6 44.43
				Total Meals Expense: 45.6 44.43 SW

Mileage

Date	# of trip		Miles	Rate	Reimbursement
4/27/2016	1	From	NaN	0....	NaN
		To			
4/28/2016	1	From	NaN	0....	NaN
		To			
Total Miles			NaN		
Total Mileage Expense					NaN

Note:

 CWEAConferenceExpensesForDirectorLathi.pdf
287.16 KB

MANAGER APPROVAL

- Approve
- Reject

Comments:

Approved By: paule

2016-05-16T14:26:43

ACCOUNTING

- Approve
- Reject

Comments:

Approved By: sharonw

2016-05-16T18:08:59

avatar hotel

Mr. Anjall Lathi

United States

INFORMATION INVOICE

Membership #:

Room No. : 341
 Arrival : 04-27-16
 Departure : 04-29-16
 Folio No. : 131309
 Cashier No. : 966
 Conf. No. : 8969746

Page No. : 1 of 1

Date	Description	Charges	Credits
04-27-16	Room Charge	219.20	
04-27-16	Occupancy Tax	20.82	
04-27-16	District Improvement Fee	1.00	
04-27-16	CA Tourism Assessment Fee	0.43	
04-27-16	Community Facilities District Tax	4.38	
04-28-16	Room Charge	219.20	
04-28-16	Occupancy Tax	20.82	
04-28-16	District Improvement Fee	1.00	
04-28-16	CA Tourism Assessment Fee	0.43	
04-28-16	Community Facilities District Tax	4.38	
04-28-16	American Express		491.66
Total Charges		491.66	
Total Credits			491.66
Balance			0.00

} \$245.83

Account Payable on Presentation or Departure

I agree that my liability for this bill is not waived and agree to be held personally liable in the event that the indicated person, company or association fails to pay for any of the full amount of these charges. I also agree that all charges contained in this account are correct and any disputes or requests for copies of charges must be made at time of departure.

4200 Great America Parkway | Santa Clara, CA 95054
 P: 408.235.8900 | F: 408.988.2888
 www.jdvhospitality.com

Hyatt Regency Santa Clara
 5101 Great American Parkway
 Santa Clara CA 95054
 +1 408-200-1234

1512856 Evelyn 2

CHK 9265 TBL 35/2
 GST 1
 4/28/2016 8:01 PM

1 Spinach Salad	11.50
FD special prep	
NO ALMONDS	
FD special prep	
NO GOAT CHEESE	
FD special prep	
QUINOA INSTEAD	
1 Kid's Salad	4.00
1 Sierra Mist	4.00
Food	\$20.45
Service Charge	\$3.00
*Tax	\$1.79
Total Paid	\$25.24
Change Due	\$0.00
\$ Charge Tip	\$3.00
Amex	\$25.24

----- Check Closed -----
 4/28/2016 8:11 PM

Hyatt Regency Santa Clara
 5101 Great American Parkway
 Santa Clara CA 95054
 +1 408-200-1234

1201389 Martin

CHK 14023 TBL 34/1
 GST 1

4/28/2016 11:52 AM

1 Brussels Sprout Salad	11.50
FD special prep	
NO CELERY/NO TOMATOES	
1 Pelligrino 500ml	4.00
Subtotal	\$15.50
*Tax	\$1.36
Payment Due	\$16.86

Tip: 3.50 *MAYHEP = \$2.33*

Total: 20.36 *19.19 MAX REV*

Room: _____

Name: _____

Signature: _____

Earn or Redeem Points for Dining
 Gold Passport#:
 Last Name:
 Offer code(s):
 Redemption Eligible: 16.86
 *Not point earning eligible.
 #Not point redemption eligible.

US EXPENSE/PAYMENT REQUEST FORM

1. Requester

Requested by: Anjali Lathi

Date Needed:

What type of payment are you requesting?

- Prepayment A payment that is made in advance (seminars, memberships, permits, etc.). Attach supporting documents.
- Reimbursement A payments that is for items already purchased. Receipts must be attached for all expenses.

2. Reimbursement

Make check payable to: Anjali Lathi

- Return Check to:
- Mail to Address:

ENTERED

3. Expense Description:

Event Dates: From: 3/24/2016 To: 4/17/2016

Description: 25% reimbursement of iPad related expenses per Board Policy 2165

Expense Type	Account to Charge	Amount
Other (Describe above)	20-160-5220-102	249.43
Total Payment:		\$249.43

AN

Note:

 DirectorLathi_iPadReceipts.pdf
1.17 MB

MANAGER APPROVAL

Approve

Comments:

Reject

Approved By: paule

2016-05-18T10:12:37

ACCOUNTING

Approve

Comments:

Reject

Approved By: pamela

2016-05-18T15:17:17



Invoice Receipt

Do Not Pay

Order Number:
W532445394

Order Date:
March 24, 2016

Sold To:
Anjali Lathi

Location:
A Lathi

United States

United States

Customer No:

Order Details

Product Name	Product Number	Item Price	Quantity Ordered	Quantity Fulfilled	Extended Price
IPAD PRO 9.7-IN WI-FI 128GB GRAY-USA	MLMV2LL/A	\$749.00	1	1	\$749.00
Recycle Fee		\$3.00		1	\$3.00
Serial No.: APPLECARE+ FOR IPAD-USA	S4689LL/A	\$99.00	1	1	\$99.00
Subtotal					\$851.00
Sales Tax					\$71.16
Total					\$922.16
Amount Due					\$0.00

Payment Methods

\$99.00 charged to American express
\$823.16 charged to American express
For a total of \$922.16

Additional Information

Invoice Number	Invoice Date	Terms
4380092746	March 28, 2016	Credit Card

This order is subject to Apple's Sales and Refunds Policies
<http://store.apple.com/us/open/salespolicies>

0.*

922.16+

75.56+

002

997.72*

997.72x

25.%

249.43*



Apple Store, Stoneridge Mall
One Stoneridge Mall, Space # D116 (Mall Address) 1352 Stoneridge
Pleasanton, CA 94588
stoneridge.apple.com
925-227-2790

www.apple.com/retail/stoneridgeapple

April 17, 2016 04:55 PM

IPAD PRO 9.7 SIL CASE CHARCOAL **\$ 69.00**
GRAY-AME
Part Number: MM1Y2AM/A
Return Date: May. 01, 2016
For Support, Visit: www.apple.com/support

Sub Total	\$ 69.00
Tax: 9.5%	\$ 6.56
Total	\$ 75.56
Amount Paid Via AmEx Card (S)	\$ 75.56

613084



* R 1 0 1 5 8 3 2 9 8 6 *

Please debit my account by \$ 75.56
(Sale)

Terminal ID: xxxx0055
Merchant ID: xxxxx75873
Application PAN Sequence Number: 0
No CVM

<http://apple.com/legal/sales-support/sales-policies/retail.html>

Tell us about your experience at the Apple Store.
Visit www.apple.com/feedback/retail.html

BOARD OF DIRECTORS
QUARTERLY TRAVEL AND TRAINING EXPENDITURE REPORT
1ST QTR, FISCAL YEAR 2017

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						
	TOTAL	45.00	0.00	0.00	0.00	5000.00	45.00	4955.00
HARRISON, JENNIFER	CASA 61st Annual Conference: Registration Fee	550.00						
	CASA 61st Annual Conference: Lodging	881.68						
	CASA 61st Annual Conference: Parking	50.00						
	CASA 61st Annual Conference: Meals	30.09						
	CASA 61st Annual Conference: Mileage	94.69						
	TOTAL	1,606.46	0.00	0.00	0.00	5000.00	1,606.46	3393.54
KITE, PAT	CASA 61st Annual Conference: Registration Fee	550.00						
	CASA 61st Annual Conference: Lodging	550.64						
	CASA 61st Annual Conference: Meals	22.19						
	CASA 61st Annual Conference: Tips	6.00						
	TOTAL	1,128.83	0.00	0.00	0.00	5000.00	1,128.83	3871.17
LATHI, ANJALI	Union City Chamber of Commerce - Spirit Awards Luncheon: Registration	45.00						
	TOTAL	45.00	0.00	0.00	0.00	5000.00	45.00	4955.00
	GRAND TOTAL	2,825.29	0.00	0.00	0.00	25000.00	2,825.29	22174.71

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

Regina McEvoy

From: info@unioncitychamber.com
Sent: Friday, July 15, 2016 2:35 PM
To: Regina McEvoy
Subject: Your receipt - Thank you!

Hello Regina,

Below is a copy of the card transaction. Thanks for your support!

===== SECURITY STATEMENT =====

It is not recommended that you ship product(s) or otherwise grant services relying solely upon this e-mail receipt.

===== GENERAL INFORMATION =====

Merchant : Union City Chamber of Commerce (1557821) Date/Time : 15-Jul-2016 14:33:20 PDT

===== ORDER INFORMATION =====

Invoice :
Description : Spirit Award tickets - 2
Amount : 90.00 (USD)
Payment Method: Visa
Transaction Type: Authorization and Capture

*1 ticket for Anjali Lathi
1 ticket for Tom Handley*

===== Line Items =====

===== RESULTS =====

Response : This transaction has been approved.
Auth Code : 024101
Transaction ID : 20055920501
Address Verification : AVS Not Applicable

===== CUSTOMER BILLING INFORMATION =====

Customer ID :
First Name : Regina
Last Name : McEvoy
Company :
Address :
City :
State/Province :
Zip/Postal Code :
Country :
Phone :
Fax :
E-Mail :

===== CUSTOMER SHIPPING INFORMATION =====

First Name :
Last Name :
Company :

Regina McEvoy

From: cs2@memberclicks-mail.net on behalf of C A S A <cs2@memberclicks-mail.net>
Sent: Tuesday, August 02, 2016 2:06 PM
To: Regina McEvoy
Subject: 2016 CASA Annual Conference Form Submitted

CASA has received your registration for the 2016 61st Annual Conference, August 10-12, 2016 at the Monterey Marriott, Monterey CA. Below is the confirmation receipt.

Receipt amount: \$550.00

Date: 08/02/2016 17:06:15

ID Code: 11090951 Transaction ID: AR0ED8F5CA71 Payment method:Credit Card Credit Card type: Visa

Delegates:
Union Sanitary District
Jennifer Toy Harrison

Guests attending conference functions:

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

USP EXPENSE/PAYMENT REQUEST FORM

1. Requester

Requested by: Jennifer Toy Date Needed:

What type of payment are you requesting?

- Prepayment A payment that is made in advance (seminars, memberships, permits, etc.). Attach supporting documents.
- Reimbursement A payments that is for items already purchased. Receipts must be attached for all expenses.

2. Reimbursement

Make check payable to: Jennifer Toy Harrison

- Return Check to: Jennifer Toy Harrison
- Mail to Address:

3. Expense Description:

Event Dates: From: 8/10/2016 To: 8/12/2016

Description: CASA Annual Conference Receipts:
Overnight accommodations - with parking
2 meals
mileage to and from conference

Expense Type	Account to Charge	Amount	Lodging
Lodging (travel related)	20-160-5220-104	931.68	Parking
Meals (travel related)	20-160-5220-104	16.02	
Meals (travel related)	20-160-5220-104	14.07	
Mileage (travel related)	20-160-5220-104	94.69	
Total Payment:		\$1,056.46	

\$ 881.68
\$ 50.00

Meals - Travel Related

Did this travel involve an overnight stay? Yes No

Date	Breakfast - \$20 Max	Lunch - \$25 Max	Dinner - \$40 Max	Daily Total - \$75 Max
8/10/2016		16.02	14.07	30.09
Total Meals Expense:				30.09

Mileage

Date	# of trip		Miles	Rate	Reimbursement
8/10/2016	1	From	87.40	0....	47.196
		To			
		350 Calle Principal, Monterey. CA			
8/12/2016	1	From	87.95	0....	47.493
		To			
		350 Calle Principal, Monterey. CA			
Total Miles			175....		
Total Mileage Expense					94.69

Note:

 Jennifer Toy Harrison - CASA Receipts.pdf
760.64 KB

MANAGER APPROVAL

Approve Comments:

 Reject

Approved By: paule **2016-09-15T10:49:03**

ACCOUNTING

Approve Comments:

 Reject

Approved By: sharonw **2016-09-15T16:47:20**



GUEST FOLIO

MONTEREY MARRIOTT HOTEL

206 HARRISON/JENNIFER 384.00 08/12/16 12:00 3741
 ROOM NAME RATE DEPART TIME ACCT#
 DQ 08/10/16 14:56
 TYPE ARRIVE TIME
 157
 ROOM
 CLERK

PAYMENT

DATE	ADDRESS	REFERENCE	CHARGES	CREDITS	BALANCE DUE
08/10	ROOM	206, 1	384.00		
08/10	ROOM TAX	206, 1	38.40		
08/10	CA FEE	206, 1	.50		
08/10	MTY FEE	206, 1	2.00		
08/10	CCFD FEE	206, 1	15.94		
08/10	PARKING	VALET1	25.00		
08/11	ROOM	206, 1	384.00		
08/11	ROOM TAX	206, 1	38.40		
08/11	CA FEE	206, 1	.50		
08/11	MTY FEE	206, 1	2.00		
08/11	CCFD FEE	206, 1	15.94		
08/11	PARKING	VALET1	25.00		
08/12	VS CARD			\$931.68	

TO BE SETTLED TO: VISA CURRENT BALANCE .00

THANK YOU FOR CHOOSING MARRIOTT!

----- EXP. REPORT SUMMARY -----

08/10	ROOM&TAX	440.84
	PARKING	25.00
08/11	ROOM&TAX	440.84
	PARKING	25.00

AS REQUESTED, A FINAL COPY OF YOUR BILL WILL BE EMAILED TO:
 REGINAM@UNIONSANITARY.CA.GOV
 SEE "INTERNET PRIVACY STATEMENT" ON MARRIOTT.COM

Your Rewards points/miles earned on your eligible earnings will be credited to your account. Check your Rewards Account Statement for updated activity. Marriott & A Woman's Nation appreciate housekeepers



This statement is your only receipt. You have agreed to pay in cash or by approved personal check or to authorize us to charge your credit card for all amounts charged to you. The amount shown in the credits column opposite any credit card entry in the reference column above will be charged to the credit card number set forth above. (The credit card company will bill in the usual manner.) If for any reason the credit card company does not make payment on this account, you will owe us such amount. If you are direct billed, in the event payment is not made within 25 days after check-out, you will owe us interest from the check-out date on any unpaid amount at the rate of 1.5% per month (ANNUAL RATE 18%), or the maximum allowed by law, plus the reasonable cost of collection, including attorney fees.

Signature X _____

USD - lunch

TRANSACTION RECORD

BIG FISH GRILL
101 FISHERMANS WHARF
MONTEREY, CA.

CARD TYPE: VISA

NU. **** * EXPI.: ****

ENTRY: SWIPED

Customer: JENNIFER HARRISON

AUTHORIZATION: 030840

TERMINAL: 3

REFERENCE: 570273

PURCHASE \$14.07

TIP 2.50

TOTAL 16.57

THANK YOU

AUGUST 30, 2016 14:34:33

Server's name: Oscar Rodriguez

CUSTOMER COPY

no itemized
receipt

garlic
steamers

subtotal = \$12.95

tax = \$1.12

reimbursable
tip = \$1.95

total = \$16.02

USD - dinner

TRANSACTION RECORD

Big Fish Grill
101 FISHERMANS WHARF
MONTEREY, CA.

CARD TYPE:VISA

Nu. *****

EXPI.: ****

ENTRY:SWIPED

Customer : JENNIFER HARRISON

AUTHORIZATION:0577 D

TERMINAL:1

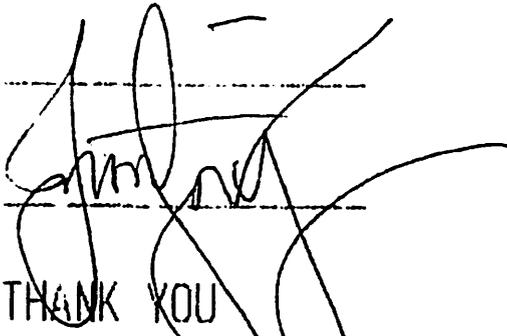
REFERENCE:570352

PURCHASE

\$14.07

TIP

TOTAL



THANK YOU

AUGUST 10, 2016 20:18:56

Server's name : Bill Castle

CUSTOMER COPY

grilled
salmon
cakes



Subtotal = \$12.95

tax = \$1.12

~~tip~~ tip = ~~0~~

total = \$14.07

Regina McEvoy

From: cs2@memberclicks-mail.net on behalf of C A S A <cs2@memberclicks-mail.net>
Sent: Wednesday, June 01, 2016 2:10 PM
To: Regina McEvoy
Subject: 2016 CASA Annual Conference Form Submitted

CASA has received your registration for the 2016 61st Annual Conference, August 10-12, 2016 at the Monterey Marriott, Monterey CA. Below is the confirmation receipt.

Receipt amount: \$550.00

Date: 06/01/2016 17:10:04

ID Code: 10889351 Transaction ID: AR0ED5CE8F0D Payment method:Credit Card Credit Card type: Visa

Delegates:

Union Sanitary District

Pat Kite

Guests attending conference functions:

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

EXPENSE/PAYMENT REQUEST FORM

1. Requester

Requested by: Pat Kite Date Needed:

What type of payment are you requesting?

- Prepayment A payment that is made in advance (seminars, memberships, permits, etc.). Attach supporting documents.
- Reimbursement A payments that is for items already purchased. Receipts must be attached for all expenses.

2. Reimbursement

Make check payable to: L. Patricia Kite

- Return Check to:
- Mail to Address:

ENTERED

3. Expense Description:

Event Dates: From: 8/10/2016 To: 8/12/2016

Description:
 CASA Conference in Monterey
 Overnight hotel accommodations = \$550.64
 Lunch reimbursement = \$23.50
 Housekeeping tip = \$6
 Valet tip = \$7

Expense Type	Account to Charge	Amount
Lodging (travel related)	20-160-5220-108	550.64
Meals (travel related)	20-160-5220-108	23.50 22.19
Other (Describe above)	20-160-5220-108	6.00 4.00
Other (Describe above)	20-160-5220-108	2.00
Total Payment:		582.14 578.83

See Attached email

Meals - Travel Related

Did this travel involve an overnight stay? Yes No

Date	Breakfast - \$20 Max	Lunch - \$25 Max	Dinner - \$40 Max	Daily Total - \$75 Max
8/10/2016		23.5 22.19		23.5 22.19
Total Meals Expense:				23.5 22.19

Note:



Pat Kite CASA Conference Receipts.pdf
143.03 KB

MANAGER APPROVAL

Approve Comments: _____
 Reject

Approved By: paule 2016-08-22T10:01:55

ACCOUNTING

Approve Comments: _____
 Reject

Approved By: sharonw 2016-08-30T08:37:52

TRANSACTION RECORD

BIG FISH GRILL
101 FISHERMANS WHARF
MONTEREY, CA.

CARD TYPE:VISA

Nu. * :***** EXPI. : ****

ENTRY:SWIPED

Customer : LINDA P KITE

AUTHORIZATION:010963

TERMINAL:3

REFERENCE:570274

PURCHASE \$19.50

TIP

3.50

TOTAL

23 50

THANK YOU

AUGUST 10, 2016 14:34:39

Server's name : Oscar Rodriguez

DUPLICATE COPY

Sharon West

From: Regina McEvoy
Sent: Thursday, August 25, 2016 3:16 PM
To: Sharon West
Subject: RE: Pending Expense/Reimbursement Request

Good Afternoon Sharon,

Pat does not have an itemized receipt for her meal at Big Fish Monterey. She ordered the Three Meat Lasagna for a subtotal of \$17.95, \$1.55 tax, and \$2.69 reimbursable tip for a meal reimbursement of \$22.19.

Please readjust her request for reimbursement subtracting a total of \$3.31 for the \$1.31 of non-reimbursable meal tip and \$2.00 for the additional non-reimbursable housekeeping tip.

Thank you,
Regina

Regina McEvoy

Assistant to the General Manager/Board Secretary
Union Sanitary District
5072 Benson Road
Union City, CA 94587
510-477-7503



From: Sharon West
Sent: Monday, August 22, 2016 11:18 AM
To: Regina McEvoy <reginam@unionsanitary.ca.gov>
Subject: FW: Pending Expense/Reimbursement Request

Hi Regina,

Does Pat have the itemized receipt for the meal? If not, she will need to list out what she had as per the travel and reimbursement policy.

You can get the info by email from her if you like and then forward the email to me. Their menu and prices are available online at [BigFishMonterey](#). It appears that she over-tipped on her submittal, as her tip is 18% of the total; including tax. The maximum reimburseable is 15% before sales tax. So I really need the itemized amounts for her meal.

Also, For the hotel, she submitted tips for housekeeping for \$6.00. The maximum reimbursable amount is \$2.00 per night.

Thanks,



DATE: September 22, 2016

FOR IMMEDIATE RELEASE: UNION SANITARY DISTRICT
5072 BENSON ROAD
UNION CITY, CA 94587

CONTACT: MICHELLE POWELL
COMMUNICATIONS AND
INTERGOVERNMENTAL RELATIONS
COORDINATOR
(510) 477-7634

Union Sanitary District Launches Redesigned Website

Union Sanitary District (USD) recently unveiled its redesigned website, revealing a dynamic, mobile-friendly format with District information organized for easy access.

USD's goal was to create a website that reflects the District's commitment to customer service. The new design is structured so USD's residential, commercial and industrial customers can quickly connect to information and services they need.

The District reached out to a customer stakeholder group for suggestions at the beginning of the project, incorporating many recommendations into the final design.

New features include a "How Do I" menu to answer frequently asked questions, a location map showing USD's many capital improvement projects throughout its service

area, and a page highlighting the District's 33-acre Alvarado treatment plant in Union City. The "Trending Now" section on the home page gives users a glimpse of the website's most popular information. Tips about sewer safety and repairs, preventing odors, and protecting the environment are easier to find in the new website's menus, as are details about USD's Board of Directors, public meetings, rates, budget, and finances.

"We're proud of the work we do to provide wastewater services to the Tri-Cities, and our new website reflects that by offering greatly improved functionality," says General Manager Paul R. Eldredge. "USD takes customer service very seriously, and upgrading the website helps us reach out to our community with the District's most up-to-date and relevant information. We hope everyone enjoys exploring www.unionsanitary.ca.gov, and discovering the many ways USD fulfills its mission to protect public health and San Francisco Bay."

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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 347,000 in Fremont, Newark and Union City. The District maintains over 800 miles of underground pipeline in its service area. For more information, call (510) 477-7500, or visit www.unionsanitary.ca.gov.

News Feature | September 26, 2016

Can Wastewater Analysis Help Police Bust Criminals?



By Sara Jerome
@sarmje



The wastewater industry may be an asset in helping law enforcement officials track down drug dealers.

Researchers from Switzerland decided to test the limits of wastewater analysis as a way to beat crime. They [published their findings](#) in *Forensic Science* this month. The writers noted that although wastewater analysis has been studied as a way to understand drug use, it has rarely been studied as a tool for fighting crime. As the study put it, “The approach’s potential to deliver pertinent information for law enforcement has been discussed only limitedly.”

This study focused on cocaine, heroin, and methamphetamine in two cities in Switzerland. The researchers conducted a wastewater analysis and linked it to intelligence from law enforcement officials.

“During the study, the police arrested two dealers, and analysis of phone records and interviews with users suggested that the dealers sold about 6 grams a day between them — about half the total market. This supported police intelligence that heroin, unlike other drugs such as methamphetamine, was supplied by a small number of local dealers who could be effectively targeted,” *Nature reported*, noting that “you can flush, but you can’t hide.”

The researchers drew the conclusion that wastewater is an effective tool for helping law enforcement address crime.

“Combined with intelligence resulting from police work (e.g., investigations and informants), wastewater analysis can contribute to deciphering the structure of drug markets, as well as the local organisation of trafficking networks,” the study said.

“The results presented here constitute valuable pieces of information, which can be used by law enforcement to guide decisions at strategic and/or operational levels. Furthermore, intelligence gathered through investigations and surveillance constitutes an alternative viewpoint to evaluate results of wastewater analysis,” the study said.

Researchers have been drawing on wastewater analysis to understand drug trends for about ten years, according to *Nature*.

“Drugs broken down in the body leave telltale traces of metabolites, some of which can be found, quantified and back-calculated to work out how much of the original substance was present. Combined with a reliable estimate of the number of people who have, well, contributed a sample to the sample, the analysis can offer guidance on average consumption and how it changes,” the report said.

Wastewater analysis may be more useful for tracking certain drugs compared to others.

“Though useful for spotting certain drugs, this process does not always give scientists a complete picture of drug consumption. The approach works well “for drug epidemiologists on the lookout for the usual suspects: cocaine, heroin, amphetamine and so on. It is far less efficient, though, at gauging use patterns of new lab-made drugs such as so-called ‘legal highs’ — chemicals with effects similar to illicit drugs, but not always explicitly forbidden,” Motherboard [reported](#).

To read more about the tools used to analyze wastewater visit Water Online’s [Wastewater Analysis Solutions Center](#).

Image credit: "The Ultimate Model Police Car (cake)," Dave Connor © 2011, used under an Attribution 2.0 Generic license: <https://creativecommons.org/licenses/by/2.0/>

California To Surpass Florida As Largest Market For Water Reuse

With 607 projects in the pipeline, U.S. water reuse capacity to increase 58% in next ten years

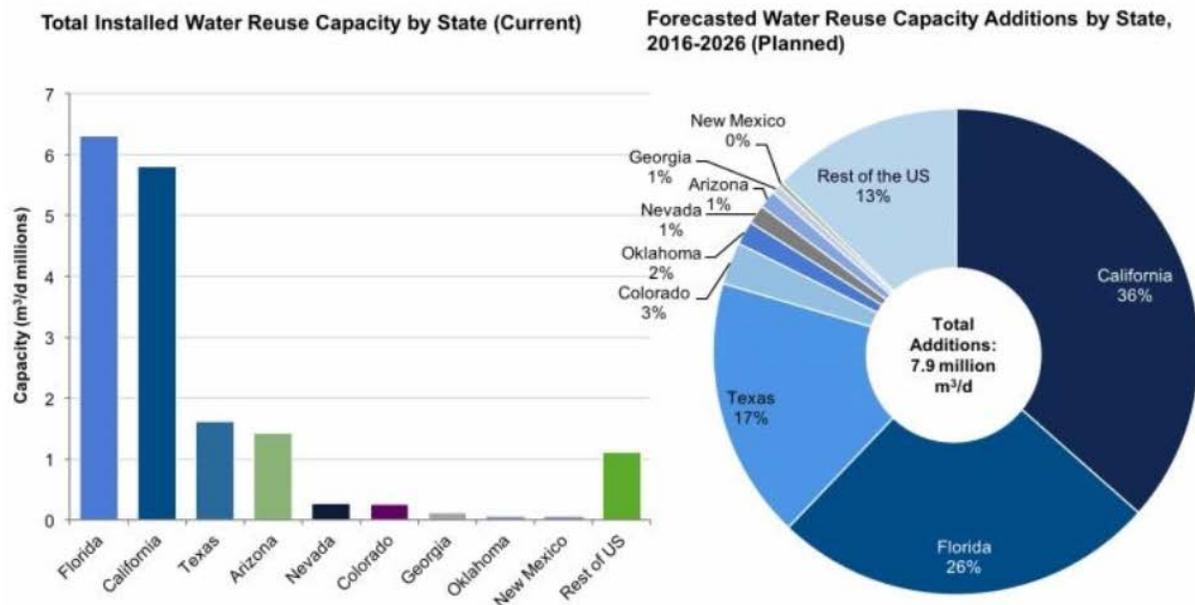
Led by California and Florida, water reuse (the process of recycling wastewater) is taking off in states facing drought and scarcity. Municipal wastewater reuse capacity is expected to increase 58% from 2016 through 2026, according to new market forecasts from Bluefield Research — based on a database of 607 currently planned reuse projects. CAPEX investment in reuse is expected to total US \$11B between 2016 and 2026.

“Water scarcity continues to be the primary driver for water reuse implementation – the scaling roster of projects demonstrated in our semi-annual review highlights wider adoption by utilities going forward,” according to Erin Bonney Casey, Senior Analyst for Bluefield Research.

California and Florida account for 36% and 26% of currently planned reuse capacity additions, respectively. Florida has the most installed reuse capacity to date with 6.3 million m³/d because of its long commitment to reuse to improve water quality and guarantee adequate supply for a growing population, according to Bluefield’s analysis.

“California is proving to be the greatest opportunity for reuse market growth, backed by US\$4.3B of planned activity, an improving regulatory environment, and its well-documented drought,” says Bonney Casey. “So far projects have taken years to develop, but given the recent supply concerns, we anticipate a more streamlined process going forward, particularly for potable applications.”

U.S. Water Reuse Capacity (Installed and Planned)



Four states — Florida, California, Colorado, and Texas — make up 581, or 95%, of planned reuse projects in the US. Colorado released its first state-wide water plan in November 2015, outlining 51 planned reuse projects. Potable reuse projects— direct and indirect— are also gaining momentum with 2.6 million m³/d in capacity additions accounting for US\$2.9B investment in advanced treatment technology solutions.

“We expect the reuse pipeline to continue to grow as states continue to face drought conditions. Longer-term water planning cycles and regulation standardizing projects demonstrate greater support for the expansion of reuse systems and contribute to the growing pipeline of planned projects,” adds Bonney Casey

About our Reuse Forecasts

Bluefield’s forecast is founded on a proprietary dataset of over 607 municipal reuse projects in various stages of development across the U.S. This database is updated regularly as projects are added to the pipeline and move through different phases of development. The above findings are from our latest update: U.S. Municipal Wastewater Reuse Update: Project Pipeline and Market Forecast, 2016-2026.

About Bluefield Research

Bluefield Research provides data, analysis and insights on global water markets. Executives rely on our water experts to validate their assumptions, address critical questions, and strengthen strategic planning processes. Bluefield works with key decision-makers at municipal utilities, engineering, procurement, & construction firms, technology and equipment suppliers, and investment firms.

SOURCE: Bluefield Research



Union Sanitary District launches redesigned website

Submitted By Michelle Powell

October 4, 2016

Union Sanitary District (USD) recently unveiled its redesigned website, revealing a dynamic, mobile-friendly format with District information organized for easy access.

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The District reached out to a customer stakeholder group for suggestions at the beginning of the project, incorporating many recommendations into the final design.

New features include a "How Do I" menu to answer frequently asked questions, a location map showing USD's many capital improvement projects throughout its service area, and a page highlighting the District's 33-acre Alvarado treatment plant in Union City. The "Trending Now" section on the home page gives users a glimpse of the website's most popular information. Tips about sewer safety and repairs, preventing odors, and protecting the environment are easier to find in the new website's menus, as are details about USD's Board of Directors, public meetings, rates, budget, and finances.

"USD takes customer service very seriously, and upgrading the website helps us reach out to our community with the District's most up-to-date and relevant information," says General Manager Paul R. Eldredge. "We hope everyone enjoys exploring www.unionsanitary.ca.gov, and discovering the many ways USD fulfills its mission to protect public health and San Francisco Bay."

Sewer warmth to heat Paris swimming pool

By Geert De Clercq | PARIS

PARIS A Paris swimming pool on Wednesday inaugurated a new heating system using warmth recovered from sewers in a bid to cut costs and reduce carbon emissions.

The Aspirant Dunand pool in Paris' 14th arrondissement is the latest in a series of French public buildings to use heat pumps to recycle residual warmth from showers, dishwashers and washing machines in its sewage pipes.

French waste and water group Suez, which has a 30-year contract to run the installation, already operates a dozen such heating systems around the country, including in pools in Paris suburb Levallois and in Annemasse, near the Swiss border, and in schools, apartment blocks and administrative buildings.

It is building three to four new installations per year.

"The potential is enormous. Wherever there are sewers, we can recover heat," said Bertrand Camus, head of Suez water in France.

France has some 400,000 kilometers of sewage networks, where the water temperature typically ranges between 13 degrees Celsius (55.4°F) in winter and 20 degrees (68°F) in summer.

With a stainless steel lining on the inside of sewage pipes, Suez recuperates 4 to 8 degrees of that warmth and boosts it to about 50 degrees for use in space heaters or as hot water. The technology is similar to low-temperature geothermal energy, already widely used in some countries to heat individual homes.

Suez says the cost ranges from 200,000 euros for a pool to one million euros (\$1.12 million) for an apartment block, and that such projects pay for themselves over eight to nine years without subsidies and at normal energy prices.

Camus said the Aspirant Dunand installation covers nearly half of the pool's energy consumption.

Paris aims to reduce its greenhouse gas emissions, boost the share of renewables in the administration's energy use to 30 percent by 2020 and make better use of its 2,400 km long sewerage network.

(\$1 = 0.8912 euros)

(Reporting by Geert De Clercq; Editing by Andrew Callus)

EAST BAY TIMES

Water conservation slips in California

BY DENIS CUFF, BAY AREA NEWS GROUP

October 5, 2016

Californians' water conservation slipped in August for the third month in a row, worrying state officials that the public's memory of recent drought restrictions and rates is fading too fast.

Water users statewide reduced consumption 17.7 percent in August as compared to the same month in the 2013 base year — a much less aggressive rate than the 27 percent conservation rate in August 2015, the state Water Resources Control Board reported Wednesday.

Californians' overall saving rate was 20 percent in July this year and 21.5 percent in June, another sign that conservation is flagging since June 1 when the governor relaxed a 25 percent cutback order and left it up to local districts to set their own conservation targets.

While Northern California received near average rainfall last winter, state officials say it wasn't enough to declare an end to the drought.

“We're at yellow alert. I'm not ready to go to red alert until we figure it out,” said Felicia Marcus, the state water board chairwoman. “While last year's rain and snow brought a respite for urban California, we are still in drought, and we can't know what this winter will bring.”

Water suppliers said with the rain and snow season barely beginning, it's far too early to speculate whether restrictions will come back next summer.

Marcus said the August conservation figures provided a mixed picture, with some water districts continuing to save at high levels and others falling short.

The overall savings rates slipped below 20 percent in August for the first time this summer, the state water board reported.

“Are we seeing a relaxation of conservation messaging and programs, or are we seeing abandonment of programs?” Marcus asked.

Most Bay Area water districts exceeded the 20 percent saving level in August even though their savings slipped somewhat.

Bay Area water suppliers said that customers aren't abandoning conservation even if they are letting up a bit after most drought restrictions were lifted.

The 990,000 customers of the privately owned San Jose Water Company saved 28.2 percent in August, down from the 35.6 percent savings rate in August 2015. Dissatisfying

Company spokesman John Tang said San Jose residents learned in the drought to hold down their water use indoors and outdoors.

"Our customers are doing a great job conserving, and this effort will bode well if another dry year is in store," Tang said. "We know that for some customers, it's impacting their quality of life (dead lawns, trees, etc.) and are hopeful that there will be plentiful rainfall in the next eight months."

The savings rate among the 1.4 million households served by the East Bay Municipal Utility District fell to 16.2 percent in August, down from 26.8 percent in the same month in 2015.

"These numbers show us that our customers are continuing to save," said Tracie Morales, an EBMUD spokeswoman. "The challenge for us is to have customers continue and keep it up."

She said the East Bay district is not surprised the conservation rate slackened some after the EBMUD board earlier this year declared an end to the drought emergency and pulled the plug on higher water rates related to the crisis.

The East Bay district is entering fall with its reservoirs 79 percent full, providing a cushion against shortages if there is little rain and snow this year in the Mokelumne River basin, the central Sierra region where EBMUD captures its water.

The Contra Costa Water District also says it is pleased with its 250,000 Central County customers saving 22.1 percent in August, down 18 percent from the 40.3 percent savings rate in August 2015.

"The 22 percent savings shows people are making conservation an important part of their life," said Jennifer Allen, a district spokeswoman. "People are saving even if they aren't practicing the extreme measures as much, such as capturing water in buckets or cutting off outdoor watering."

Among top savers in the Bay Area in August, Menlo Park achieved a 41.2 percent conservation rate; Pleasanton achieved 27.9 percent; and the Dublin San Ramon Services

District saved 27.4 percent. The Alameda County Water District saved 22.6 percent, down from 33.5 percent a year ago.

Among cities that didn't save as much was Sonoma, with 12.5 in August, according to figures from the state board.

The Associated Press contributed to this report.

Water Reuse in California: Overcoming the Barriers to Its Expansion

Californians favor increasing water reuse in the state, but regulatory and financing hurdles still remain, leading experts on the topic to join in discussing the solutions, says Kirsten James from nonprofit sustainability group Ceres.

California has a lot of work to do to expand water recycling. Some experts contend that as much as [2.5 million acre-feet](#) (3 billion cubic meters) of potentially reusable water is yet to be developed. To put that in perspective, the city of Los Angeles supplies approximately 512,000 acre-feet (630 million cubic meters) per year to its customers. The most recent water recycling surveys place the state at only 13 percent municipal reuse. Given that California is one of the nation's most water-stressed states, the current rate of reuse is nowhere near enough to provide the supplemental resources needed to help reduce the state's vulnerability to droughts and other water-supply constraints.

Yoram Cohen, professor of chemical and biomolecular engineering at UCLA, drove that point home at a recent forum on statewide water reuse hosted by the California Governor's Office of Planning and Research. I was invited to attend and moderate a panel, joining stakeholders from state agencies, legislative offices, nongovernmental organizations and businesses, as well as leading academics. We spent an entire day learning from each other about the barriers to expanding water reuse and then discussing the steps required to expedite its expansion in California.

Felicia Marcus, chair of the State Water Resources Control Board, opened the session by stating she hoped that "we have achieved greater maturity on this issue" – referring to the science that has been tested, the on-the-ground examples that have been collected and the egos that have been checked – which would help in figuring out how to integrate water reuse wisely.

But, as she highlighted, we need to be smart about the best uses for reclaimed water. "It isn't the smartest use of resources to treat water to pristine levels and then pump it uphill in order to have green lawns looking like we're in Scotland."

Thankfully, California's residents are ready to embrace water recycling. A recent [California-based survey by Xylem](#) found that 76 percent of respondents believe recycled water should be used as a long-term solution, regardless of drought.

Echoing public sentiment, the water board has been working to expand municipal water reuse, such as by releasing standards for groundwater recharge with reclaimed water and indirect potable reuse, as well as developing a streamlined permissions system for projects. Just a few weeks ago, the board released a draft report to the legislature on the feasibility of developing uniform water recycling criteria for [direct potable reuse](#). Kara Nelson, professor of environmental engineering at U.C. Berkeley, called the effort a game-changer and "a landmark moment" in terms of municipal reuse.

But, as Jay Ziegler, director of external affairs at the Nature Conservancy, noted at the statewide water reuse forum, innovative financing ideas and perhaps some legislative drivers will be needed to really ramp up municipal reuse. The \$625 million earmarked for recycled water projects in Proposition 1 is already accounted for. One such driver could be a policy in the vein of Senate Bill 163, proposed in the last legislative session by Sen. Robert Hertzberg. Acknowledging that 1.5 billion gallons (5.7 billion liters) of treated water are lost to the ocean each day in coastal California, the bill called for reuse to be ramped up at these facilities. Though the bill stalled, these types of policy concepts should be pursued.

Clearly, more consistent standards for where and how recycled water can be used are also critical for scaling up on-site water reuse projects, such as those proposed by large companies.

The Public Health Alliance just released a survey that found that 95 percent of Californian environmental health directors believe on-site water reuse is an important issue and feel the need to engage. But, shockingly, 82 percent of those from the same survey were unsure of regulatory standards and their role in overseeing on-site water reuse, citing current regulatory uncertainty as the cause.

No wonder many of our partner companies tell me that their innovative on-site reuse projects have stalled.

Richard Luthy, professor in civil and environmental engineering at Stanford University, presented a poignant example of the confusion that exists. He shared a chart with standards for gray water used to flush toilets in different states. The risk should be the same regardless of the state or county, right? But the standards vary greatly.

Nevertheless, strides are being made on this front in some localities. The San Francisco Public Utilities Commission (SFPUC), for example, recognized a growing interest in on-site reuse from the San Francisco business community and sought a path forward for these projects. Paula Kehoe, director of water resources at SFPUC, said that her team found that consistent and appropriate water quality and monitoring criteria were necessary across the many involved agencies.

As a result of [their efforts](#) to set consistent criteria and establish a path forward on these projects, 20 decentralized reuse systems are now online in San Francisco. I am hopeful that their imminent draft policy for California, based on the lessons learned from this impressive work, will lead to a solid proposal in the next legislative session.

Removing barriers to water reuse is a big component of Ceres' business-led California water campaign "Connect the Drops." Many of Ceres' [company partners](#) in California are keen to move forward on water reuse projects, especially considering the ongoing drought and its impact on their businesses. But they have run into confusion, as well as roadblocks, from regulators at the local level.

Many "Connect the Drops" signatories supported AB 1463 in this past legislative session; the bill laid out a road map for coordinating local and state governments around water reuse standards and monitoring for on-site water reuse projects. Unfortunately, this bill stalled because of unsolved issues between the administration and the bill's author. It's going to take a heightened level of coordination and alignment of standards to motivate stakeholders such as the business community to begin seriously implementing water reuse on a grander scale and quench the thirst of farms, businesses and households alike.

However, the future for water reuse is bright. With the population of California expected to almost double by 2055, and with the anticipated effects of climate change in an already water-strained state, water reuse will need to be an integral part of California's water story. We cannot afford to let this opportunity go literally down the drain.

The views expressed in this article belong to the author and do not necessarily reflect the editorial policy of Water Deeply.

How California Is Learning to Love Drinking Recycled Water

It wasn't too long ago that the so-called "yuck factor" associated with recycled water was a deal breaker for many communities. But new research shows that Californians are warming to the concept.

Written By Tara Lohan

October 6, 2016



Samples of the water purification process at the Silicon Valley Advanced Water Purification Center in San Jose, CA

Would you rather drink a cup of recycled wastewater or advanced purified water?

Actually, that's a trick question – both terms are often used to talk about the same thing. But when it comes to public acceptance of the practice, the language you use makes a big difference. And so does education about how the process works.

Those are some of the things that have helped shift attitudes in California around potable reuse (drinking wastewater that has been purified for drinking). But it's been a long road to get there and a few bumps remain.

Decades ago, the idea of treating wastewater to drinking water standards was met with resistance and it earned the unfortunate moniker of "toilet to tap" in 1995, which became widely touted in defeating proposals to purify recycled water for drinking in Southern California in the 1990s.

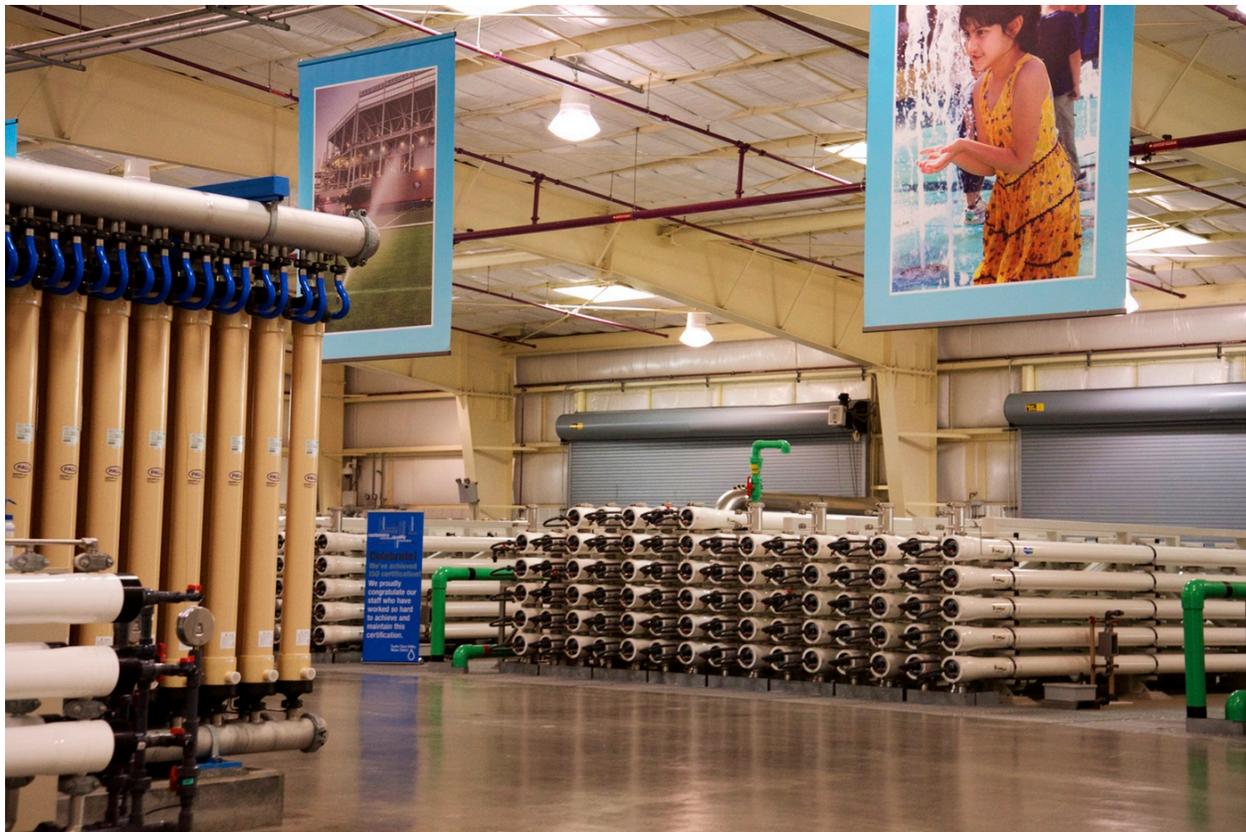
But Orange County paved a different way forward for California by using indirect potable reuse – treating wastewater to drinking water standards and then putting it back underground to mingle with water in the aquifer before being pumped back out for drinking.

Add to the equation another multi-year drought (just entering year six) and increased pressure on water sources from climate change and competing interests, and many Californians now seem ready to welcome recycled water into their homes. San Diego and Silicon Valley are both on their way.

In January, the water technology company Xylem conducted a survey of 3,000 Californians to gauge their support of water recycling. Water recycling can mean water treated for non-potable purposes, such as industrial uses and irrigation, but in this survey it was defined to mean wastewater that had been treated and purified for drinking.

Of those surveyed, 42 percent were very willing to use recycled water in their everyday lives and 41 percent were somewhat willing. The numbers increase with more information. The survey found that 89 percent of people were willing to use recycled water after receiving information about how the treatment process works.

The findings are similar to what Santa Clara Valley Water District has found as they have tested their customers on the concept as well. The water district has a facility, the Silicon Valley Advanced Water Purification Center, that can treat wastewater to drinking water standards, but currently the water is only used to supplement recycled water for non-potable uses such as irrigation. In the near future (likely the next two to three years), the agency may be using the water for indirect potable reuse to supplement groundwater for drinking.



A survey the agency conducted in Santa Clara County in 2010 found that initially people were pretty opposed to the idea of one day drinking recycled water – only 31 percent were in favor of it. But after being read information about how the treatment and purification process works, 53 percent were supportive. And then after being given additional information about why it's good for the environment and helps support groundwater supplies, support rose to 69 percent.

“What we learned from that is with enough information and education you can change people’s understanding and perception,” said Marta Lugo, a public information representative of Santa Clara Valley Water District. Since education is key, in 2014 when the water district opened their water purification center, they immediately kicked off a public tour program.

The results show that seeing is believing. Visitors are asked to take surveys before and after the tour. When asked how they feel about using advanced purified water to replenish groundwater to augment drinking water supplies, only 42 percent are strongly in favor of it before the tour. But that number jumps to more than 98 percent after the tour.

Similarly, before the tour only 52 percent feel the purified water is safe to drink, but after the tour 97 percent of respondents feel it’s safe. And the hardest thing to get people on board with – direct potable reuse (pumping treated water directly to their homes) – goes from only 36 percent strongly supporting before the tour to more than 98 percent after the tour.

<https://www.newsdeeply.com/water/articles/2016/10/06/how-california-is-learning-to-love-drinking-recycled-water>

If seeing is believing, then tasting usually seals the deal. Lugo said an open-house event last October drew 900 people from the community, and more than 90 percent took a taste test. “Many were surprised when they saw, smelled and tasted it,” said Lugo. “If people see their neighbors taking a taste, or their friends and peers, they get over a psychological barrier – it becomes normalized.”

The facility doesn’t offer taste tests on all their tours now, however, because it isn’t regularly treating the water all the way to drinking standards since it’s currently just used for non-potable purposes.

But the water agency is proactively taking their message out into the community since the majority of the county’s 2 million residents won’t be able to visit the purification center. Lugo said they set up tables at events like Earth Day and have launched a speakers bureau to pitch their recycled water to neighborhood, rotary and professional associations. And a bill written by area assembly member Rich Gordon was recently signed into law that would allow facilities like Santa Clara Valley Water District’s to bottle their purified drinking water and give it away for free for educational purposes.

“It’s great, we are very supportive of that,” said Lugo, but added, “It’s tricky because for us, we haven’t explored the idea of bottling water, we have a policy of not promoting bottled water for environmental reasons.”

She says that acceptance has also grown during California’s drought, and being in Silicon Valley they are aided by having many tech-minded residents. But, a 2014 survey found that the biggest reason driving public acceptance of drinking recycled water is actually concern for the environment and the fact that recycled water is good for rivers, streams, fish, plants and wildlife, she said.

The language is also important, said Lugo. People are more accepting when it is referred to as “highly” or “advanced purified water.” It’s not just semantics but an important distinction. Many Californians are already familiar with recycled water that is transported in purple pipes for irrigation and industrial uses. They are also repeatedly cautioned not to drink purple pipe water. “We had to find a way to disassociate from that, because even though we are recycling water it is not the same water in the purple pipes, it’s a step ahead of that recycled water.”

Water from the Silicon Valley Advanced Water Purification Center goes through three main processes – microfiltration, reverse osmosis and ultraviolet light. If it was to be used for drinking water, it would also receive advanced oxidation.

Next year, the California legislature is likely to begin addressing regulations for direct potable reuse, which will give another boost to the idea of wastewater as part of the water supply. But it will likely be many more years before direct potable use is widespread.

Water agencies like Santa Clara Valley Water District are moving slowly. “It’s not an overnight process, it’s taken years of education,” said Lugo. “It has only been in the last year and a half that we have moved to aggressively talking about recycled water for drinking water supplies – either for groundwater replenishment or for direct use. It’s a process, but for the most part, the community has been very supportive.”

10/7/2016

Zone 7 board OKs funding study for using recycled water as drinking water

Tri-Valley agencies commission research into treating wastewater for consumption

by Julia Reis / Pleasanton Weekly



Zone 7 logo

Tri-Valley water agencies are expected to kick off a nearly \$1 million study later this month that will examine the feasibility of advanced water recycling for human consumption.

The Zone 7 Board of Directors approved a resolution late last month authorizing its general manager to contract with Carollo Engineers for the Tri-Valley Potable Reuse Feasibility Study.

The estimated budget for the consulting services is \$850,000, to be shared among the Tri-Valley water agencies, with Zone 7's portion equaling roughly \$300,000, according to a board memo. The budget includes a \$95,000 contingency.

Approval of the study follows Zone 7's water supply evaluation update, which was completed in February and underscored a need to pursue water supply options to improve the area's long-term supply. Elected representatives from Zone 7, Dublin San Ramon Services District and local cities also met in February and expressed support for a more detailed study of potable reuse.

The primary goals of the study are to evaluate the feasibility of advanced water recycling, identify the most promising options based on financial, technical and other considerations and recommend next steps for the agencies.

The study will further evaluate options for using highly-treated wastewater for drinking, including groundwater recharge, surface water augmentation and blending and connection upstream of the Zone 7 surface water treatment plants for additional treatment. Direct potable reuse, through which the treated wastewater system is connected to the water transmission system, is not being considered at this time based on input from Tri-Valley officials.

The study should be completed by the end of 2017, at which point it will be presented to the governing bodies of the local water agencies for their input and possible actions. Consultants will also participate in community outreach events and presentations at milestones in the study.

Recycled water treatment plant may come to coast: Half Moon Bay, sewer authority, water purveyor collaborate

October 10, 2016, 05:00 AM By Samantha Weigel Daily Journal

One of the largest potable water users in Half Moon Bay could soon benefit from the flush of a toilet.

Years in the making, officials on the coast are getting closer to designing a recycled water treatment plant to reduce the amount of potable water being used for landscape irrigation. Instead of discharging millions of gallons of treated sewage into the ocean every month, recycled water would be used to nourish a local golf course.

The project is a collaboration between the city of Half Moon Bay, the Coastside County Water District and the Sewer Authority Mid-Coastside, which serves about 30,000 people from Half Moon Bay, El Granada, Miramar, Montara, Moss Beach and Princeton.

The three agencies agreed to begin updating a shelved 2010 plan by including the process of reverse osmosis — which up until recently was considered too costly. Over the coming months, consultants will outline about 25 percent of the design work as the agencies consider whether they can design an economically feasible, and environmentally beneficial, project.

Although a treatment plant was initially considered almost a decade ago, the years-long drought may be bolstering renewed interest in making the most of the scarce resource.

“As all things in California, when water is plentiful we don’t always plan ahead. So I think the drought is bringing it up again; how important it is to use whatever resources we have more effectively. So that is, perhaps, why the conversation is starting up again. But the water industry as a whole, has always been looking at how do we use this valuable resource,” said Beverli Marshall, general manager of the sewer authority.

From the toilet to the putting green

Under a joint powers agreement, a recycled water treatment plant would be located next to the sewage treatment plant on the authority’s Half Moon Bay property. The water district would be responsible for a conveyance system and selling as well as distributing the treated reuse to customers, Marshall said.

Currently, Ocean Colony Partners, owner of Half Moon Bay Golf Links, is looking to buy the recycled water to irrigate its expansive green next to the Ritz-Carlton Hotel. Using an average of 500,000 gallons per day, the pristinely manicured grass could be fed by a portion of the nearly 1.2 million gallons of sewage the authority treats every day.

Ideally, the plant operations will be flexible enough to reduce output when demand is lower, Marshall said.

Since the agencies last considered the project, advanced technologies have become more affordable. Microfiltration, UV treatment, reverse osmosis and possibly other treatment options will be studied. Although reverse osmosis was initially determined to be cost prohibitive, the growth in recycled water markets has made the technology more affordable in recent years. And, it's now a requirement of Ocean Colony Partners, according to a Half Moon Bay city staff report.

"A lot of agencies, if they're not already doing it, they're looking into it," Marshall said. "It's sort of the cost effectiveness of it is what it's driven by, and are there end users?"

Ensuring the treated water is available at a cheaper rate, or at a minimum the same price as traditional potable water, is critical to securing customers.

This week, the Half Moon Bay City Council agreed to offer up more money to fund the initial 25 percent design phase that will help determine the financial feasibility of treating recycled water on the coast.

During a meeting last month, Councilwoman Marina Fraser noted while questions remain as to how the project would ultimately be funded, it's critical that other ratepayers don't end up on the hook. But with the golf course serving as a critical economic driver for the city and residents having done their best to adapt to the drought, recycled water is the next logical step.

"I think the whole coastside community has done a wonderful job with conservation. ... We're all doing so much and there's a finite amount that can be done, so the next piece is, 'where is the biggest piece of grass?'" Fraser said, according to a video of the meeting.

Councilman John Muller, a local pumpkin farmer, noted he hopes recycled water might one day be available and affordable for use on local agricultural lands — a prospect considered during the 2010 plan.

The cost of being sustainable

The partner agencies and members of the authority board are expected to receive the 25 percent design report with opportunities for public comment and to provide feedback before further work is conducted.

But so far, officials with the three agencies are eager to proceed. Marshall said costs will be determined through the design phase. However rough estimates are between \$5 million to \$10 million, likely not including the water district's costs related to construction of a delivery system. The agencies will have to try and secure grant funding or loans to support construction, she said.

There's also the fact that recycling water promotes self-sufficiency — a major benefit to a region that's on the very tail end of the region's supply chain.

As most in San Mateo County are served by the San Francisco Public Utilities Commission's Hetch Hetchy Reservoir system, water travels vast distances before coming out of a Half Moon Bay faucet.

"We're so dependent on outside resources," Marshall said. "For the ability to be sustainable, it would be really beneficial to have access to our own water source, which recycled water would give us."

Visit samcleanswater.org/recycled_water for more information.

Sewer water die-hards refuse to give up

By Denis Cuff, Bay Area News Group

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Sam Lipson, of Martinez, fills five gallon jugs with recycled water at the Central Contra Costa Sanitary District recycled water filling station in Martinez on Wednesday. Recycle water for landscape irrigation is provided free of charge to homeowners. Anda Chu — Bay Area News Group

MARTINEZ >> Though he knows it makes no financial sense, Sam Lipson regularly drives to a local sewer plant to haul home free effluent to irrigate the trees in his yard.

A year ago, at the height of California's drought when residents faced higher rates and penalties for using too much water, the time and effort saved Lipson money.

Now, with drought rates and penalties gone, Lipson saves less than 20 cents on his water bill each time he picks up 40 gallons of free effluent, instead of getting the water from his faucet at home. That's scant compensation for the time and effort.

But he — like many other Californians — continues to do it.

Water officials thought business at drought-inspired recycled water fill stations would wither and die after rates dropped back to normal and rainfall returned to near normal in much of California. Business has slowed but far from dried up.

Thousands of homeowners are still tanking up at sewer plants in Scotts Valley, Redwood City, Martinez, Pleasanton, Brentwood, Pittsburg, Livermore, Irvine, San Diego Los Angeles and Calabasas.

Heather Cooley, water program director at the Oakland-based Pacific Institute, a water think tank, said it's hard to predict how long the fill stations will stay in California. But she added that the users are sending an important message that public views have shifted about water scarcity and reuse.

“The public is understanding that California’s water problems are not just in droughts but in normal years,” Cooley said. “The message is that we need to look at effluent not just as a waste product but as a natural resource that we can make greater use of. “

Lipson, a semi-retired community college chemistry professor who fills up eight 5-gallon jugs at the fill station at the Central Contra Costa Sanitary District plant in Martinez, says, “I do it because it’s the right thing to do. ... I can’t stand the idea of using fresh tap water on plants and trees when we’re not using millions of gallons of our wastewater.”

The more than 15 fill stations that popped up in the drought are a striking throwback to a low-tech, grass-roots course of individual action in the state with the most advanced water plumbing system in America. The volumes used are a drop in the bucket compared with overall water use.

Planners wonder: Is it a fad? Is it a feel-good measure? Or is it a vanguard of greater acceptance for using more recycled water in an arid state?

At the fill stations, people use tanks, barrels and jugs to haul home their water, which weighs 7.8 pounds per gallon, giving them a sense of mission and control over at least part of their supply.

In Scotts Valley, Bill Ekwall, a retired firefighter, picks up free effluent to irrigate his lawns, potted plants and other landscaping even though the Scotts Valley Water District has more abundant supplies this year.

Ekwall said he doesn’t feel good about using Scotts Valley’s limited groundwater to irrigate his plants when treated sewage is being piped out to sea.

“The newly constructed areas in town are built to get recycled water in purple pipes. The parks use recycled water,” he said. “Why can’t homeowners in the older areas have the same access to recycled water?”

Water and sewer industry managers say the steep cost of installing new purple pipes is a big deterrent to delivering recycled water to older neighborhoods.

Responding to public demand amid drought restrictions, some communities opened recycled water fill stations in the past two years to provide a temporary way to let homeowners get the effluent on a do-it-yourself basis.

The number of customers that pick up recycled water varies from community to community, according to a survey by the website www.recycledh2o.net/, which tracks the trend.

About 88 people in Scotts Valley are signed up. Some 3,800 or more are signed up in the Dublin San Ramon Services District, the agency that opened the first fill station in 2014 and served as a model for other stations.

About 27 people are registered to use a fill station opened in Los Angeles this summer by the Los Angeles Department of Water and Power. The station recently switched from weekday to weekend hours in a move to make it more accessible and popular.

Los Angeles' primary reason for the station is to promote greater understanding and acceptance of recycled water as more California communities study expanding its use, said Alberto Rodriguez, a department spokesman.

In Scotts Valley, Piret Harmon, the local water district general manager, said her agency benefits from offering the free service because it lays a foundation of public understanding of recycled water. The district is studying whether to use treated effluent to replenish the local underground basins from where the district pumps its water supply.

She expects the Scotts Valley fill station will stay in business as long as there are a significant number of users.

"I think it's a feel-good thing," Harmon said.