



BOARD MEETING AGENDA
Monday, January 11, 2016
Regular Meeting - 7:00 P.M.

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

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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 December 14, 2015.

5. Written Communications.

6. 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 7. Authorize the General Manager to Execute Task Order No. 2 with Beecher Engineering to Provide Engineering Services During Construction of the MCC and PLC Replacement Project *(to be reviewed by the Construction Committee)*.

- Motion 8. Authorize the General Manager to Execute Task Order No. 2 with Carollo Engineers to Provide Engineering Services During Construction of the High Speed Aeration Blower Project *(to be reviewed by the Construction Committee)*.

- Motion 9. Authorize the General Manager to Execute Task Order No. 3 with West Yost Associates to Provide Engineering Services During Construction of the Plant Facilities Improvements Project *(to be reviewed by the Construction Committee)*.

- Motion 10. Consider Confirming and Declaring the Need to Continue the Emergency Action to Repair the 33 Inch Sewer on Alvarado Boulevard and Update on the Repairs *(to be reviewed by the Construction Committee)*.

- Motion 11. General District Election *(To be reviewed by the Legal/Community Affairs Committee)*
- a) Consider a Resolution Ordering, Calling, Providing For, and Giving Notice of a General Election to be Held in Union Sanitary District, Alameda County, California, on June 7, 2016, for the Purpose of Electing Three Directors.
 - b) Consider a Resolution Ordering the Consolidation of the Union Sanitary District General Election on June 7, 2016 with the Direct Primary Election to be Held on June 7, 2016 and Requesting the Board of Supervisors of the County of Alameda to Consolidate said General District Election with said Direct Primary Election to be held on said date.
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- Information 12. Information Items:
- a. Check Register.
 - b. Presentation for the Public Informational Meeting to be held January 12, 2016 *(to be reviewed by the Legal/Community Affairs Committee)*.
 - c. Report on the East Bay Dischargers Authority (EBDA) Commission meeting of December 17, 2015.
-
- Information 13. Committee Meeting Reports. *(No Board action is taken at Committee meetings):*
- a. Construction Committee – scheduled for Wednesday, January 6, 2016, at 10:30 a.m.
 - b. Legal/Community Affairs Committee – scheduled for Wednesday, January 6, 2016, at 4:00 p.m.
 - c. Budget & Finance Committee – will not meet.
 - d. Personnel Committee – will not meet.
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- Information 14. General Manager’s Report. *(Information on recent issues of interest to the Board).*
-
15. 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.
-
16. Adjournment – The Board will adjourn to the next scheduled Regular Meeting to be held in the Boardroom on Monday, January 25, 2016, at 7:00 p.m.

The Public may provide oral comments at regular and special Board meetings; however, whenever possible, written statements are preferred (to be received at the Union Sanitary District at least one working day prior to the meeting).

If the subject relates to an agenda item, the speaker should address the Board at the time the item is considered. If the subject is within the Board’s jurisdiction but not on the agenda, the speaker will be heard at the time “Oral Communications” is calendared. Oral comments are limited to three minutes per individual, with a maximum of 30 minutes per subject. Speaker’s cards will be available in the Boardroom and are to be completed prior to discussion of the agenda item.

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

THE PUBLIC IS INVITED TO ATTEND

**NOTICE OF
COMMITTEE MEETING**



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

BOARD MEETING OF JANUARY 11, 2016

Committee Membership:

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

Construction Committee, Wednesday, January 6, 2016, at 10:30 a.m.

7. Authorize the General Manager to Execute Task Order No. 2 with Beecher Engineering to Provide Engineering Services During Construction of the MCC and PLC Replacement Project.
 8. Authorize the General Manager to Execute Task Order No. 2 with Carollo Engineers to Provide Engineering Services During Construction of the High Speed Aeration Blower Project.
 9. Authorize the General Manager to Execute Task Order No. 3 with West Yost Associates to Provide Engineering Services During Construction of the Plant Facilities Improvements Project.
 10. Consider Confirming and Declaring the Need to Continue the Emergency Action to Repair the 33 Inch Sewer on Alvarado Boulevard and Update on the Repairs.
-

Legal/Community Affairs Committee, Wednesday, January 6, 2016, at 4:00 p.m.

11. General District Election
 - a) Consider a Resolution Ordering, Calling, Providing For, and Giving Notice of a General Election to be Held in Union Sanitary District, Alameda County, California, on June 7, 2016, for the Purpose of Electing Three Directors.
 - b) Consider a Resolution Ordering the Consolidation of the Union Sanitary District General Election on June 7, 2016 with the Direct Primary Election to be Held on June 7, 2016 and Requesting the Board of Supervisors of the County of Alameda to Consolidate said General District Election with said Direct Primary Election to be held on said date.
 - 12b. Presentation for Informational Meeting to be held January 12, 2016.
-

Committee meetings may include teleconference participation by one or more Directors.
(Gov. Code Section 11123)

Committee Meetings are open to the public. Only written comments will be considered. No action will be taken.

**MINUTES OF THE MEETING OF THE
BOARD OF DIRECTORS OF
UNION SANITARY DISTRICT
December 14, 2015**

CALL TO ORDER

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

PLEDGE OF ALLEGIANCE

ROLL CALL

PRESENT: Jennifer Toy, President (arrived at 7:07 p.m.)
Tom Handley, Vice President
Pat Kite, Secretary
Manny Fernandez, Director
Anjali Lathi, Director

STAFF: Paul Eldredge, General Manager
Karen Murphy, District Counsel
Sami Ghossain, Technical Services Manager
James Schofield, Collection Services Manager
Armando Lopez, Treatment & Disposal Services Manager
Robert Simonich, Fabrication, Maintenance, and Construction Manager
Maria Scott, Principal Financial Analyst
Michelle Powell, Communications and Intergovernmental Relations Coordinator
Jason Yeates, Environmental Compliance Inspector III
Regina McEvoy, Assistant to the General Manager/Board Secretary

GUESTS: AJ Major, Vavrinek, Trine, Day & Co. LLP

APPROVAL OF THE MINUTES OF THE MEETING OF NOVEMBER 23, 2015

It was moved by Secretary Kite, seconded by Director Fernandez, to Approve the Minutes of the Meeting of November 23, 2015. Motion carried with the following vote:

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

WRITTEN COMMUNICATIONS

There were no written communications.

ORAL COMMUNICATIONS

There were no oral communications.

ACCEPTING FINANCIAL STATEMENTS FOR FISCAL YEAR ENDED JUNE 30, 2015

This item was reviewed by the Audit Committee. Principal Financial Analyst Scott stated the Audit Committee reviewed the financial statements for Fiscal Year Ended June 30, 2015. AJ Major, Partner with Vavrinek, Trine, Day & Co. LLP, stated the District successfully implemented GASB Statement No. 68, Accounting and Financial Reporting Pensions. There were no material audit comments made by auditors, Vavrinek, Trine, Day & Co. this year.

It was moved by Director Lathi, seconded by Secretary Kite, to Accept Financial Statements for Fiscal Year Ended June 30, 2015. Motion carried with the following vote:

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

AWARD THE CONSTRUCTION CONTRACT FOR THE PLANT FACILITIES IMPROVEMENTS PROJECT

This item was reviewed by the Construction Committee. Technical Services Manager Ghossain stated various equipment and facilities at the Plant and the Newark Pump Station are in need of rehabilitation, replacement, or modification in order to improve the Plan and Pump Station's operation and maintenance. As the scope of work or the cost for each improvement is not extensive enough to warrant standalone projects, these improvements were combined into a larger construction project. West Yost Associates provided preliminary and detailed design for the Project. The Project was advertised for bids on November 12, 2015, and two bids were received. The bid submitted by D.W. Nicholson Corporation (DWN) was the apparent low bid at \$1,570,346. The contractor has 365 calendar days to complete the Project from Notice to Proceed, with estimated substantial completion expected in January 2017. Staff recommended the Board award the construction contract for the Plant Facilities Improvements Project to DWN in the amount of \$1,570,346.

It was moved by Director Fernandez, seconded by Secretary Kite, to Award the Construction Contract for the Plant Facilities Improvements Project. Motion carried with the following vote:

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

CONSIDER A RESOLUTION TO ACCEPT THE CONSTRUCTION OF THE NEWARK BACKYARD SANITARY SEWER RELOCATION PROJECT – PHASE 2 FROM

RANGER PIPELINES, INC. AND AUTHORIZE STAFF TO RECORD A NOTICE OF COMPLETION

This item was reviewed by the Construction Committee. Technical Services Manager Ghossain stated the item was pulled from consideration. The contractor did not submit change order documentation for District staff to review, and staff was unable to evaluate the information needed to recommend acceptance of the project.

AUTHORIZE THE GENERAL MANAGER TO EXECUTE AMENDMENT NO. 1 TO TASK ORDER NO. 1 WITH THE COVELLO GROUP FOR PROVIDING ADDITIONAL CONSTRUCTION MANAGEMENT SERVICES FOR THE NEWARK BACKYARD SANITARY SEWER RELOCATION PROJECT – PHASE 2 AND THE MISCELLANEOUS SPOT REPAIRS PROJECT – PHASE 6

This item was reviewed by the Construction Committee. Technical Services Manager Ghossain stated the Newark Backyard Sanitary Sewer Relocation Project – Phase 2 was the second of a three-phased project to improve the existing sewer system within the residential neighborhood located northerly of the intersection of Dairy Avenue and Cherry Street in the City of Newark. Phase 2 of the project included relocation of 93 sanitary sewer laterals to sanitary sewer mains constructed along George Avenue, Jennifer Street, Deborah Street, Leone Street, and parts of Zulmida Avenue and Noel Avenue. The Miscellaneous Spot Repairs Project – Phase 6 involved the repair of broken or sagging sewer pipes at six sites throughout the District; three sites were in Union City and three sites were in Fremont. Amendment No. 1 would increase the amount of Task Order No. 1 by \$37,257.

It was moved by Vice President Handley, seconded by Secretary Kite, to Authorize the General Manager to Execute Amendment No. 1 to Task Order No. 1 with The Covello Group for Providing Additional Construction Management Services for the Newark Backyard Sanitary Sewer Relocation Project – Phase 2 and the Miscellaneous Spot Repairs Project – Phase 6. Motion carried unanimously.

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

This item was reviewed by the Construction Committee. Technical Services Manager Ghossain stated the damaged sewer continues to be plugged and its flows bypassed to the unaffected 39-inch trunk sewer on the south side of the street through a permanent overflow pipe. Staff consulted with the geotechnical consultant and came to the conclusion that the incremental approach to resolving this problem has been exhausted, and the next and final step is to excavate the area and make the necessary repairs. The repair will be accomplished by excavation of a large pit, installation of sheet piles, and replacement of the mainline and manhole. The contractor has begun ordering materials and started planning for the sewer line excavation. Updates will be provided to the City, School District, and media of any lane closures to accommodate this work. Staff recommended the Board approve a motion by a four-fifths vote finding there is a need to continue the action and confirm and declare the continuance of the emergency.

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

ACCEPT THE FINAL REPORT FOR THE PUMP STATION MASTER PLAN FROM CAROLLO ENGINEERS

This item was reviewed by the Construction Committee. Technical Services Manager Ghossain stated the District operates and maintains a transport system that collects and pumps influent wastewater from three drainage basins to the Alvarado Wastewater Treatment Plant. On January 12, 2015, the Board authorized the General Manager to execute an agreement and Task Order No.1 with Carollo Engineers to complete the Pump Station Master Plan. Staff recommended the Board accept the final report, dated December 2015, prepared by Carollo Engineers for the Pump Station Master Plan.

It was moved by Secretary Kite, seconded by Vice President Handley, to Accept the Final Report for the Pump Station Master Plan from Carollo Engineers. Motion carried unanimously.

AUTHORIZE THE GENERAL MANAGER TO EXECUTE AGREEMENT AND TASK ORDER NO. 1 FOR THE ALVARADO BASIN MASTER PLAN UPDATE

This item was reviewed by the Construction Committee. Technical Services Manager Ghossain stated the goal of the sewer master plan is to develop a long-term capital improvement program for the Alvarado Basin that will provide for adequate hydraulic capacity in the sewer system as well as address maintenance and structural problems in sewers within the basin. The last Alvarado Basin Master Plan update was completed in 2008. Work under Task Order No. 1 will focus on a condition assessment of the District's trunk sewer system and will include wet weather monitoring. To take advantage of the 'El Niño' weather pattern expected this winter, wet weather monitoring has been included in Task Order No. 1. Work under this task order is expected to be completed by June 30, 2016. Staff recommended the Board authorize the General Manager to execute an Agreement and Task Order No. 1 with RMC Water and Environment for an amount not to exceed \$89,800 for the preparation of the Alvarado Basin Sewer Master Plan Update.

It was moved by Director Fernandez, seconded by Director Lathi, to Authorize the General Manager to Execute Agreement and Task Order No. 1 for the Alvarado Basin Master Plan Update. Motion carried unanimously.

BOARD MEMBER COMPENSATION FOR 2016

This item was reviewed by the Budget & Finance Committee. General Manager Eldredge stated the Committee recommended no changes be made to Board Member compensation for calendar year 2016. The Board directed staff to conduct a Board Member compensation comparison survey of neighboring wastewater agencies, and present as an information item a month or two prior to consideration of Board Member Compensation for 2017.

It was moved by Secretary Kite, seconded by Director Lathi, to make no changes to Board member compensation. Motion carried unanimously.

INFORMATION ITEMS:

Check Register

All questions were answered to the Board's satisfaction.

Rising Health Care Costs

Technical Services Manager Ghossain stated that according to the 2014 California Employer Health Benefits Survey, California health care premiums have risen 185% since 2002. There is a growing contingent of local agencies who want to encourage large purchasers to coordinate purchasing power to drive payment reform for health care services. District staff attended a symposium on April 2, 2015, which included presentations by the City of Richmond, CalPERS, the City of San Francisco, SEIU 1021, and others. This item was presented to bring the Board up to speed on the topic.

Update on the Hayward Marsh

Treatment & Disposal Services Manager Lopez stated since 1988, the Hayward Marsh (Marsh) has provided 20 MGD of wet weather flow capacity not available in the East Bay Dischargers Authority (EBDA) force main. Sedimentation due to natural processes resulted in a blockage of the inlet to pond 3B in the summer of 2013. The District agreed to conduct a planning level study at the request of the East Bay Regional Parks District (EBRPD) to identify options for rehabilitation of the Marsh. All options presented in the study would bare considerable costs to implement. In September 2015, District staff met with EBRPD staff who concurred the options developed and evaluated in the Hayward Marsh Options Study were too expensive for EBRPD to continue to support the current operation of the marsh. Concepts and details are being evaluated cooperatively between the District and EBRPD staff. Additional information will be brought back before the Board as it becomes available. The current National Pollutant Discharge Elimination System (NPDES) permit will expire in October 2016, and efforts to renew said permit have begun. Staff has begun working on refining the scope and tasks for the Hayward Marsh NPDES permit renewal application with RMC Water and Environment.

Report on the East Bay Dischargers Authority (EBDA) Commission Meeting of November 19, 2015

Vice President Handley stated the EBDA Commission meeting included a discussion regarding the EBDA outfall evaluation which revealed a leak in the pipe located in the shallow area. A temporary fix has been completed, and a permanent fix is planned for next year.

DISCUSS AND PROVIDE DIRECTION REGARDING BROWN ACT / ETHICS REFRESHER BOARD WORKSHOP

General Manager Eldredge stated the Board had previously discussed scheduling a refresher course on the Brown Act and general public agency ethics. The Brown Act / Ethics Refresher workshop had been scheduled for December 15, 2015, but was

cancelled due to unforeseen scheduling conflicts with the Board. General Manager Eldredge noted all Board Members completed their AB 1234 Ethics training in 2015. Staff requested the Board provide direction regarding next steps for the Brown Act / Ethics Refresher Workshop.

The Board agreed by consensus to cancel the Workshop with no plans to reschedule at this point.

COMMITTEE MEETING REPORTS:

The Budget & Finance, Construction, and Audit Committees met.

General Manager Eldredge noted the Ad Hoc Subcommittee for Content Review of Proposition 218 Notification completed its work and will disband.

GENERAL MANAGER'S REPORT:

General Manager Eldredge reported the following:

- General Manager Eldredge contacted the City Manager's for Fremont, Newark, and Union City to inquire about potential Boardmember participation in National Night Out activities. Staff will notify the Board as responses are received.
- The Co-digestion Pilot project continues, and results continue to be favorable. The feed was recently increased to 3.5 gpm.
- The California Association of Sanitation Agencies (CASA) Winter Conference will be held in Palm Springs January 20-22, 2016. The registration deadline is January 6, 2016. Please let staff know if you would like to be registered to attend.
- The CASA Washington D.C. Conference will be held February 22-24, 2016. The registration deadline has not been posted. Please let staff know if you would like to be registered to attend.
- Per CASA's request, Organizational Performance Program Manager Brenner will facilitate an Operator Recruitment and Training roundtable discussion at the CASA Winter Conference on January 20, 2016.
- Proposition 218 public hearing notices were mailed to property owners last week and staff have been receiving responses, including email.
- The District's annual holiday potluck for staff will be held Thursday, December 17, 2015.
- General Manager Eldredge will meet with City of Union City, City Manager Tony Acosta on Tuesday, December 15, 2015. Topics of discussion will include the Alvarado-Niles Lining Project and repair of the damaged sewer beneath Alvarado Boulevard.

OTHER BUSINESS:

General Manager Eldredge suggested the Board's request for a Board Member compensation comparison survey be presented as an agenda item in June to afford the Board an opportunity to provide further direction. The Board agreed by consensus.

ADJOURNMENT:

The meeting was adjourned at 8:25 p.m. to the next scheduled Regular Board Meeting to be held in the Boardroom on Monday, January 11, 2016, at 7:00 p.m.

SUBMITTED:

ATTEST:

REGINA McEVOY
SECRETARY TO THE BOARD

PAT KITE
SECRETARY

APPROVED:

JENNIFER TOY
PRESIDENT

Adopted this 11th day of January, 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: January 4, 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. 7 - Meeting of January 11, 2016
Authorize the General Manager to Execute Task Order No. 2 with Beecher Engineering to Provide Engineering Services During Construction of the MCC and PLC Replacement Project – Phase 3

Recommendation

Staff recommends the Board authorize the General Manager to execute Task Order No. 2 with Beecher Engineering in the amount of \$56,520 to provide engineering services during construction of the MCC and PLC Replacement Project – Phase 3 (Project).

Funds for this project have been budgeted in the Renewal and Replacement Fund.

Background

On September 19, 2014, the General Manager executed an Agreement and Task Order No. 1 with Beecher Engineering in the amount of \$78,200 for the Project's final design. The purpose of the Project is to replace or modify aging and unreliable electrical and controls equipment located at the Plant.

Beecher Engineering completed the design in October 2015. The Project's major elements are as follows:

- Replace MCC No. 16 located in the Degritter Building.

- Replace PLC Nos. 8 and 8A with new PLC No. 8 located in the West Aeration Blower Building.
- Install new variable frequency drives for Lift Pump Nos. 1 through 4 and modify MCC No. 23 located at the West Aeration Tanks.
- Install new variable frequency drives for Site Waste Pump Nos. 1 through 4 and modify MCC No. 25 located at the Site Waste Pump Station.
- Miscellaneous electrical and control equipment replacement and modifications associated with the above work.

Staff opened bids on November 3, 2015, and the Board awarded the construction contract in the amount of \$869,850 to D.W. Nicholson Corporation (DWN) on November 23, 2015. Staff issued the Notice to Proceed on December 16, 2015.

Task Order No. 2 – Engineering Services During Construction

The scope of services of Task Order No. 2 are summarized below:

Task	Task Description	Amount
1	Submittal Review	\$7,200
2	Requests for Information Responses	\$5,400
3	Design Clarification and Change Order Assistance	\$2,880
4	Construction Period Correspondence	\$16,200
5	On Site Meetings and Site Visits	\$7,560
6	Factory Witness Testing	\$3,600
7	Site Witness Testing	\$3,600
8	Interconnects and Wire Tag Sheets	\$4,320
9	Power System Studies	\$3,600
10	Project Management	\$2,160
Task Order Not to Exceed Amount		\$56,520

The Task Order's not-to-exceed amount is 6.5% of the construction contract amount. Staff reviewed the cost proposal and determined it to be appropriate. As a comparison, the costs of the engineering services during construction of the MCC Replacement Project Phase 1 and PLC Replacement Project Phase 1 were 9.3% and 9.1% of the project's construction cost, respectively. The reason for the higher percentages for this type of project is the need to have the engineer

provide additional services such as witnessing the factory and field testing of the new equipment, providing field wire tag information to properly identify the wiring, and providing protective device settings for the new MCC and existing power equipment.

The total amounts for the Project's agreement with Beecher Engineer are summarized in the table below:

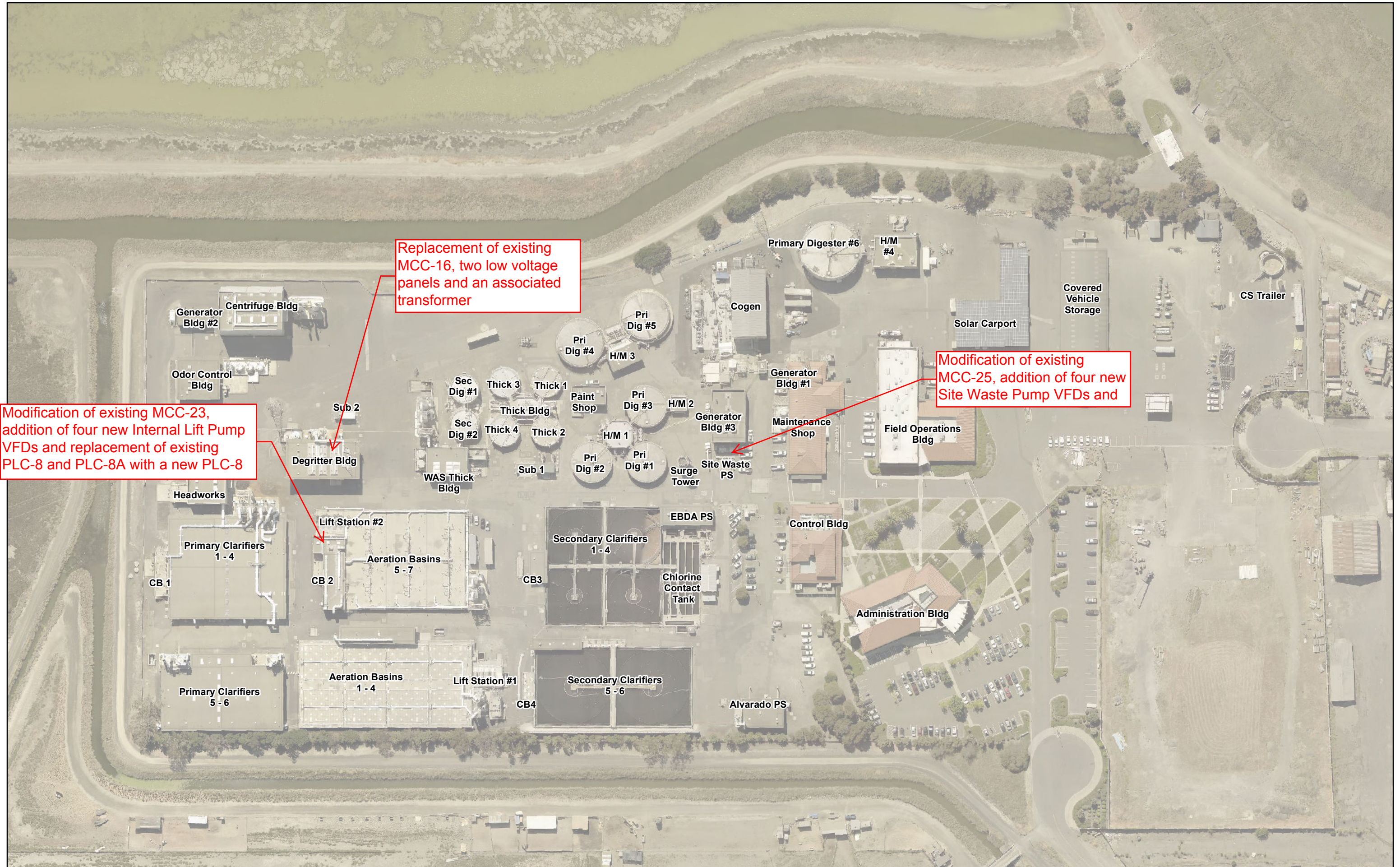
TASK ORDER	DESCRIPTION	AMOUNT
1	Project Design & Bid Period Services	\$78,200
2	Engineering Services during Construction	\$56,520
	TOTAL	\$134,720

Staff recommends that the Board authorize the General Manager to execute Task Order No. 2 with Beecher Engineering in the amount of \$56,520 to provide engineering services for the construction of the MCC and PLC Replacement Project – Phase 3.

PRE/SEG/RC/TL:ks

Attachments: Site Map – Figure 1
Task Order No. 2

Figure 1 - Site Map



MCC AND PLC REPLACEMENT PROJECT – PHASE 3

TASK ORDER NO. 2

to

AGREEMENT

BETWEEN

UNION SANITARY DISTRICT

AND

BEECHER ENGINEERING, INC.

FOR

PROFESSIONAL SERVICES

Dated September 19, 2014

1. PURPOSE

The purpose of Task Order No. 2 is to provide engineering services during construction of the Project. Services include request for information (RFI) responses, submittal review, change order reviews, factory and field witness testing, wire tag information, protective device settings, and meetings and site visits. These services are to be performed by the same engineers who worked on the design and possess detailed knowledge about the Project. District staff will update record drawings based on markups provided by the Contractor and reviewed by the Construction Manager.

2. SCOPE OF SERVICES

The task in this Scope of Services is associated with the personnel costs and hours presented in Exhibit A. Task Order No. 2 shall include the following engineering services during the construction of the Project:

Task 1. Submittal Review

Engineer shall review and respond to submittals as requested by the District's Project Manager. Engineer's cost assumes 10 submittals (including resubmittals, shop drawings and product data) requiring an average effort of four hours per submittal for a total of 40 hours.

Task 2. RFI Responses

Engineer shall review and respond to RFIs as requested by the District's Project Manager. Engineer's cost assumes ten RFIs requiring an average effort of three hours per RFI for a total of 30 hours.

Task 3. Design Clarifications and Change Order Assistance

Engineer shall review change orders and provide design clarifications as requested by the District's Project Manager. Engineer's cost assumes two change orders requiring an average of eight hours per change order for a total of 16 hours.

Task 4. Construction Period Correspondence

Engineer shall communicate with District's staff, contractor and District's programmer to resolve problems that do not warrant formal RFIs. Engineer's cost assumes a total of 90 hours of correspondence for the entire construction period.

Task 5. On-Site Meetings/Site Visits

Engineer shall attend on-site construction meetings and site visits to investigate problems, monitor progress and inspect contractor's work as requested by the District's Project Manager. Engineer's cost assumes seven on-site meetings/site visits requiring an average of six hours per meeting/visit for a total of 42 hours.

Task 6. Factory Witness Testing

Engineer shall prepare a functional testing script and attend factory witness testing for new PLC and MCC equipment. Engineer's cost assumes two factory witness testing visits, each requiring ten hours for a total of 20 hours.

Task 7. Site Witness Testing

Engineer shall prepare a functional testing script and be present for site witness testing for new PLC and MCC equipment. Engineer's cost assumes two site witness testing visits, each requiring ten hours for a total of 20 hours.

Task 8. Interconnection Diagrams/Wire Tag Sheets

Engineer shall provide field wire tag information on Contractor's submitted interconnection diagrams along with an Excel spreadsheet with the wire tag information included for the Contractor's use in wire tag label printing. Engineer's cost assume a total of 24 hours for this task.

Task 9. Power System Studies

Engineer shall provide protective device settings for new MCC equipment and upstream power system equipment connected to new MCC equipment. Settings shall be developed using SKM software owned by the Engineer. Engineer's cost assumes a total of 20 hours for this task.

Task 10. Project Management

Engineer shall manage the project budget and prepare invoicing. Engineer's cost assumes one hour per month for twelve months for a total of 12 hours.

3. DELIVERABLES

All deliverables shall be provided electronically in MS Word, PDF or AutoCAD format. Deliverables include:

1. Responses to RFIs as required
2. Responses to submittals as required
3. Evaluation of change orders as required
4. Upload information to the District's online project management system, ProjectMates

4. PROJECT COORDINATION

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

5. PAYMENT TO THE ENGINEER

Payment to the Engineer shall be as called for in Article 2 of the Agreement. The Multiplier for this work shall be 2.31 and the cost ceiling shall be \$56,520. 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 – Final Design Services	\$78,200	No	Richard Currie
Task Order No. 2 – Engineering Services During Construction	\$56,520	Yes	Paul Eldredge
Total	\$134,720		

6. TIME OF COMPLETION

All work defined in Task Order No. 2 shall be complete before January 31, 2017 subject to the conditions of Article 3 of this Agreement. Project milestones are set as follows:

Contractor Notice to Proceed	December 16, 2015
Construction Complete	December 14, 2016

7. KEY PERSONNEL

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

<u>Role</u>	<u>Key Person to be Assigned</u>
Engineer	Mr. Todd Beecher, P.E.

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 January ____, 2016 and therewith incorporate it as part of the Agreement.

Union Sanitary District

Beecher Engineering, Inc.

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

By: _____
Todd Beecher, P.E.
President

Date: _____

Date: _____

Exhibit A

Beecher Engineering, Inc. - MCC and PLC Replacement Project - Phase 3

Cost Estimate				
Task	Description	Consultant Hours	Rate (\$/hr)*	Cost
1	Submittal Review	40	\$ 180.00	\$ 7,200.00
2	RFI Responses	30	\$ 180.00	\$ 5,400.00
3	DCs/Change Order Assistance	16	\$ 180.00	\$ 2,880.00
4	Construction Period Corresp	90	\$ 180.00	\$ 16,200.00
5	On-Site Meetings/Site Visits	42	\$ 180.00	\$ 7,560.00
6	Factory Witness Testing	20	\$ 180.00	\$ 3,600.00
7	Site Witness Testing	20	\$ 180.00	\$ 3,600.00
8	Interconnects/Wire Tag Sheets	24	\$ 180.00	\$ 4,320.00
9	Power System Studies	20	\$ 180.00	\$ 3,600.00
10	Project Management	12	\$ 180.00	\$ 2,160.00
Total		314		\$ 56,520.00
* The multiplier for the hourly rate is 2.31				

**Directors**

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: January 4, 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
Curtis Bosick, Associate Engineer

SUBJECT: Agenda Item No. 8 - Meeting of January 11, 2016
Authorize the General Manager to Execute Task Order No. 2 with Carollo Engineers to Provide Engineering Services During Construction of the High Speed Aeration Blower Project

Recommendation

Staff recommends the Board authorize the General Manager to execute Task Order No. 2 with Carollo Engineers in the amount of \$42,752 to provide engineering services during construction of the High Speed Aeration Blower Project (Project).

Funds for this project have been budgeted in the Renewal and Replacement Fund (50%) and the Capacity Fund (50%).

Background

In January 2015, staff executed an Agreement and Task Order No. 1 with Carollo Engineers for the design of the High Speed Aeration Blower Project. The purpose of the Project is to install and pilot one 600-horsepower high speed aeration blower at the east aeration blower room. Carollo Engineers completed the Project's final design in October 2015. The Project's major elements are as follows:

- Demolish three existing positive displacement blowers, reinforced concrete equipment pads, piping, and other associated items in the East Blower Building.

- Install one (1) new high speed aeration air blower in the East Blower Building that includes a blower, blower discharge manifold, isolation valves, piping, and appurtenances.
- Replacement of gaskets and District-provided check valves in the aeration air piping in the West Blower Building including replacement of pipe insulation impacted by these activities.
- Install all required electrical and instrumentation items necessary to support improvements.

Staff opened bids on November 12, 2015, and the Board awarded the construction contract in the amount of \$1,065,500 to D.W. Nicholson Corporation on November 23, 2015. Staff issued the Notice to Proceed on December 16, 2015.

Task Order No. 2 – Engineering Services During Construction

The scope of services and cost of Task Order No. 2 are summarized below:

Task	Task Description	Amount
1	Submittals	\$21,047
2	Requests for Information	\$5,982
3	Clarification Memoranda	\$1,643
4	Informal Requests for Information	\$5,131
5	Meetings	\$1,228
6	Periodic Site Visits	\$3,644
7	Electrical System Coordination	\$2,268
8	Project Management	\$1,809
Task Order Not to Exceed Amount		\$42,752

The Task Order's total not-to-exceed amount is about 4% of the construction contract amount. For a project of this size and scope, staff expects the fee to be in the range of 4% to 5%. As a comparison, the table below summarizes the final fees and percentages of engineering services during construction of past plant projects.

Project	Engineering Services During Construction Cost (A)	Construction Cost (B)	Percentage of A to B
Headworks Improvements	\$71,019	\$1,827,115	3.9%
Emergency Outfall Improvements	\$49,805	\$1,088,889	4.6%

The total amounts for the Project's agreement with Carollo are summarized in the table below:

Description	Amount
Task Order No. 1 – Final Design	\$96,200
Task Order No. 2 – Engineering Services During Construction	\$42,752
Total for this Agreement	\$138,952

Staff recommends the Board authorize the General Manager to execute Task Order No. 2 with Carollo Engineers in the amount of \$42,752 to provide engineering services during construction of the High Speed Aeration Blower Project.

PRE/SEG/RC/CB:ks

Attachments: Figure 1 – Site Map
Task Order No. 2

FIGURE 1 – HIGH SPEED AERATION BLOWER PROJECT



**HIGH SPEED AERATION BLOWER PROJECT
PROJECT NO. 800-457**

TASK ORDER NO. 2

to

AGREEMENT

BETWEEN

UNION SANITARY DISTRICT

AND

CAROLLO ENGINEERS, INC.

FOR

PROFESSIONAL SERVICES

Dated January 20, 2015

1. PURPOSE

The purpose of Task Order No. 2 is to provide engineering services during construction for the High Speed Aeration Blower Project, Project Number 800-457 (Project).

Engineering services to be provided during construction include engineering support, attendance at meetings, submittal reviews, responses to requests for information and design clarification, review of change order requests, and site visits. These services are to be performed by the same engineers who worked on the design and possess detailed knowledge about the Project. District staff will update record drawings based on markups provided by the Contractor and reviewed by the Construction Manager.

2. SCOPE OF SERVICES

The task numbers in this Scope of Services are associated with the cost data presented in Exhibit A. Carollo Engineers, Inc. (Engineer) shall provide the following engineering support services during the construction of the project:

TASK 1.0 – SUBMITTAL REVIEW

There will be the following division of submittal review responsibility between Construction Manager and Engineer.

Administrative Submittals: The Construction Manager will review and provide response to all administrative submittals required by the Contract Document Specifications. Copies of these submittals to the Engineer are for information purposes only.

Shop Drawing Submittals: Engineer shall review and provide response to shop drawing submittals as described in the technical specifications of the Contract Document on an as requested basis.

Quality Control Submittals: The Construction Manager will review and provide response to all quality control submittals as described in the Contract Document Specifications, except Engineer shall review and provide response to mechanical and electrical testing procedures and testing results. Copies of all other quality control submittals to the Engineer are for information purposes only. Construction Manager will also be responsible for all testing indicated in the Contract Documents to be performed by an entity other than the Contractor.

Temporary Construction Submittals: Engineer shall review and provide response to all temporary construction submittals including temporary piping, supports, electrical, and controls. District will retain a third party programmer for review of temporary control related submittals.

Submittals

Engineer shall respond to requests for submittal reviews on an as requested basis. Engineer shall provide written review comments on a review comment sheet and return the review comment sheet to the Construction Manager. Engineer shall complete review of submittal, provide comments, and return review comment sheet within twenty-one (21) calendar days for normal submittals, after Engineer's receipt of submittal. Review comments for critical path or expedited submittals shall be returned within ten (10) calendar days, after Engineer's receipt of submittal. If for any reason the review cannot be completed within this period, Engineer shall notify Construction Manager and provide reason for delay prior to the end of the specified period.

The Construction Manager will screen all submittals for form, completeness, and general content conforming to that specified in the Contract Documents before transmitting them to Engineer.

Engineer's submittal review is to determine compliance with the Contract Documents. Submittal review is not intended as acceptance of the work. The review is not intended to relieve the Contractor of his full responsibility for performance as required by the Contract Documents.

Engineer's budget allowance is based on reviewing 11 submittals at an average review time of 8 hours per submittal. Engineer's Subconsultant, Beecher Engineering, has included 12 hours of submittal review time in the budget.

TASK 2.0 – REQUESTS FOR INFORMATION

Engineer shall respond to formal requests for information (RFIs) on an as requested basis. Engineer shall provide a written response on a response sheet and return the response sheet to the Construction Manager. Engineer shall complete review of RFI, provide response, and return response sheet within seven (7) calendar days after Engineer's receipt of RFI. If for any reason the response cannot be completed within this period, Engineer shall notify Construction Manager and provide reason for delay prior to the end of the specified period.

The Construction Manager will screen all RFIs for form, completeness, and general content conforming to that specified in the Contract Documents before transmitting them to Engineer.

Engineer's budget allowance is based on reviewing 6 RFIs at an average of 4 hours review per RFI. Beecher Engineering has included 4 hours of RFI review time in the budget.

TASK 3.0 – CLARIFICATION MEMORANDA

Engineer shall issue Clarification Memoranda where deemed necessary by the Engineer or on an as requested basis. Engineer shall provide a written clarification on a Clarification Memorandum (including specifications, sketches, or other information as necessary) and issue the Clarification Memorandum to the Construction Manager.

Clarification Memorandums will be issued to 1) clarify Contract Documents when necessary, 2) in the event that modifications to the Contract Documents are desired by the District, or 3) to assist the Construction Manager with the preparation of contract change order requests.

Engineer's budget allowance is based on preparing 1 Clarification Memorandum at an average of 8 hours per Clarification Memorandum.

TASK 4.0 – INFORMAL REQUESTS FOR INFORMATION

Engineer shall respond to Construction Manager's informal requests for information, including verbal, email, and telephone correspondence with Construction Manager.

Engineer's budget allowance is based on an average of 2 hours of informal correspondence per month for duration of approximately 9 months. Beecher Engineering has included 8 hours of informal correspondence time in the budget.

TASK 5.0 – MEETINGS

Engineer shall have personnel attend construction meetings on a routine basis throughout the duration of the Project. The Construction Manager will facilitate all meetings and provide meeting minutes.

Budget allowance is based on Engineer's Principal in Charge attending 1 construction meeting at an average of 4 hours per meeting.

TASK 6.0 – PERIODIC SITE VISITS

Engineer shall periodically visit the Project site to monitor the progress and quality of the Contractor's work effort, including specialty site visits (civil, structural, mechanical, electrical, and instrumentation). Engineer shall not, during such site visits or as a result of such observations of Contractor's work in progress, supervise, direct, or have control over Contractor's work. Nor shall Engineer have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected by Contractor, or safety precautions and programs incident to the Work. Furthermore, Engineer shall not be held responsible for any failure of Contractor to comply with laws, rules, regulations, ordinances, codes, or orders applicable to Contractor furnishing and performing work. Engineer shall provide opinions and observations to the Construction Manager and/or District regarding general compliance with the Contract Documents for improvements that are observed by the Engineer at the time of Engineer's site visits.

Engineer's budget allowance is based on 1 site visit by the Engineer's Structural Engineer at an average of 4 hours per site visit. Beecher Engineering has included two site visits at 4 hours per visit and 6 hours for field witness testing of the MCC in the budget. Factory witness testing of the MCC breaker is not included in the budget.

TASK 7.0 – ELECTRICAL SYSTEM COORDINATION

This task includes 12 hours for Beecher Engineering for the development of field wire tags and a partial power system study (for the new blower breaker and existing upstream MCC main breaker).

TASK 8.0 – PROJECT MANAGEMENT

Engineer shall manage the efforts of the project team members, coordinate with representatives of the District and Construction Manager, delegate responsibilities, and review work progress. Engineer shall prepare and submit monthly invoices and progress summary reports.

Monthly invoices will be broken down by major tasks only. Monthly progress summary reports will be made as part of the report submitted for all on-going projects with District.

Engineer's budget allowance is based upon an average of 1 hour per month for duration of approximately 9 months.

3. DELIVERABLES

All deliverables shall be provided electronically in Word document or PDF format. Deliverables include:

Responses to submittals as required
Responses to RFIs as required

Clarification Memoranda as required
Upload information to the District's online project management system, Projectmates

4. PROJECT COORDINATION

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

5. PAYMENT TO THE ENGINEER

Payment to the Engineer shall be as called for in Article 2 of the Agreement. The billing rate schedule is equivalent to an overall labor multiplier of 3.21, including profit. Subconsultants and outside services shall be billed at actual cost plus 5%; other direct costs will be billed at actual cost; and mileage will be billed at prevailing IRS standard rate.

Total charges to the DISTRICT not-to-exceed amount shall be \$42,752. 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 – Final Design	\$96,200	No	Paul R. Eldredge
Task Order No. 2 – Engineering Services During Construction	\$42,752	Yes	Paul R. Eldredge
Total	\$138,952		

6. TIME OF COMPLETION

All work defined in this Task Order shall be complete in 293 calendar days after the execution of this Task Order and subject to the conditions of Article 3 of this Agreement. A summary of the anticipated construction schedule is as follows:

- Notice of Award (NOA) issued to Contractor: November 25, 2015
- Notice to Proceed (NTP) issued to Contractor: December 16, 2015
- Substantial Completion: August 4, 2016
- Final Completion: October 3, 2016

7. KEY PERSONNEL

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

<u>Role</u>	<u>Key Person to be Assigned</u>
Principle-In-Charge	Scott Parker
Project Manager/Engineer	Colin Barrett
Structural Engineer	Michael Dadik
Electrical and Controls Engineer	Todd Beecher/Beecher Engineering

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 January ____, 2016 and therewith incorporate it as part of the Agreement.

DISTRICT

ENGINEER

Union Sanitary District

Carollo Engineers, Inc.

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

By: _____
Name: _____

Title: _____

Date: _____

Date: _____

High Speed Aeration Blower Project
Task Order No. 2
Union Sanitary District and Carollo Engineers
Engineering Services During Construction
Exhibit A

		PD	PM/PE	SE	CAD	Support	Total Hours	Labor Cost	Other Direct Costs (ODC)				Total Cost	
Task No.	Task Description	\$282	\$189	\$225	\$142	\$90			PECE \$11.70	Beecher Eng.	Mileage Trips Amount			ODC Cost
1.0	Submittal Review	4	64	20	0	0	88	\$17,749	\$1,030	\$2,268	0	\$0	\$3,298	\$21,047
Task 1.0 Subtotal =		4	64	20	0	0	88	\$17,749	\$1,030	\$2,268	0	\$0	\$3,298	\$21,047
2.0	Request For Information	2	16	6	0	0	24	\$4,945	\$281	\$756	0	\$0	\$1,037	\$5,982
Task 2.0 Subtotal =		2	16	6	0	0	24	\$4,945	\$281	\$756	0	\$0	\$1,037	\$5,982
3.0	Clarification Memorandums	1	4	1	2	0	8	\$1,549	\$94	\$0	0	\$0	\$94	\$1,643
Task 3.0 Subtotal =		1	4	1	2	0	8	\$1,549	\$94	\$0	0	\$0	\$94	\$1,643
4.0	Informal Requests for Information	0	18	0	0	0	18	\$3,408	\$211	\$1,512	0	\$0	\$1,723	\$5,131
Task 4.0 Subtotal =		0	18	0	0	0	18	\$3,408	\$211	\$1,512	0	\$0	\$1,723	\$5,131
5.0	Meetings	4	0	0	0	0	4	\$1,130	\$47	\$0	1	\$51	\$98	\$1,228
Task 5.0 Subtotal =		4	0	0	0	0	4	\$1,130	\$47	\$0	1	\$51	\$98	\$1,228
6.0	Periodic Site Visits	0	0	4	0	0	4	\$900	\$47	\$2,646	1	\$51	\$2,744	\$3,644
Task 6.0 Subtotal =		0	0	4	0	0	4	\$900	\$47	\$2,646	1	\$51	\$2,744	\$3,644
7.0	Electrical System Studies	0	0	0	0	0	0	\$0	\$0	\$2,268	0	\$0	\$2,268	\$2,268
Task 7.0 Subtotal =		0	0	0	0	0	0	\$0	\$0	\$2,268	0	\$0	\$2,268	\$2,268
8.0	Project Management	0	9	0	0	0	9	\$1,704	\$105	\$0	0	\$0	\$105	\$1,809
Task 8.0 Subtotal =		0	9	0	0	0	9	\$1,704	\$105	\$0	0	\$0	\$105	\$1,809
Totals		11	111	31	2	0	155	\$31,385	\$1,815	\$9,450	2	\$102	\$11,367	\$42,752

Legend:

PD Project Director
PM Project Manager
PE Project Engineer
SE Structural Engineer
CAD CAD Technician
Support Support Staff
PECE: Project Equipment and Communication Expense

Notes:

1. Mileage based on 100 miles per trip @ \$0.505/mile
2. Multiplier = 3.21

**Directors**

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: January 4, 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. 9 - Meeting of January 11, 2016
Authorize the General Manager to Execute Task Order No. 3 with West Yost Associates to Provide Engineering Services During Construction of the Plant Facilities Improvements Project

Recommendation

Staff recommends the Board authorize the General Manager to execute Task Order No. 3 with West Yost Associates in the amount of \$62,965 to provide engineering services during construction of the Plant Facilities Improvements Project (Project).

Funds for this project have been budgeted in the Renewal and Replacement Fund.

Background

Various equipment and facilities at the plant and the Newark Pump Station are in need of rehabilitation, replacement, or modification in order to improve the plant and pump station's operation and maintenance. The scope of work or the cost for each improvement is not extensive enough to warrant its own standalone construction project. Therefore, these improvements were combined into a larger construction project to allow for more favorable bids.

Task Order No. 1

On November 13, 2014, the General Manager executed an agreement and Task Order No. 1 with West Yost Associates (WYA) in the amount of \$55,567 for the Project preliminary design. The preliminary design effort resulted in the following Project scope of work:

1. Repair of the lining in the 60-inch primary effluent pipe between the primary clarifiers and Lift Station No. 1.
2. Installation of a jib crane on the roof of the Degritter Building.
3. Installation of safety hand railing on the roof of the Degritter Building.
4. Relocation of the concrete island at the front vehicle gate to provide safer access for large trucks.
5. Installation of permanent groundwater dewatering pumps around Primary Clarifiers Nos. 1-4 to reduce uplift forces exerted on out-of-service tanks.
6. Re-coating of the structural steel beams located at the Solar Carport facility.
7. Replacement of one of the two bar screens at the Headworks Building.
8. Installation of permanent polymer solution piping from the polymer preparation facilities in the GBT building to the effluent channel of the aeration basins.
9. Miscellaneous concrete repairs (surge towers, chlorine contact tank walkway, flow meter vault, Newark Pump Station wall)
10. Replacement of digester sludge heat exchanger No. 3 and No. 6.
11. Re-coating of the structural steel beam joints at the Covered Storage Building.
12. Replacement of four sodium hypochlorite tanks, four chemical metering pumps, and PVC distribution piping at the Odor Control Building (OCB)
13. Replacement of two chemical metering pumps and associated PVC distribution piping in the sodium hypochlorite tank enclosure at the Maintenance Shop Building.
14. Replacement of one ferrous chloride tank at the Newark Pump Station.

Staff decided to combine the last three improvements into the new Sodium Hypochlorite Tanks and Piping Replacement Project. The improvements are similar in scope and the District may benefit in more competitive bids from contractors who specialize in this type of work. The last three improvements were to have a separate set of plans and specifications and would be bid as a stand-alone construction project.

Task Order No. 2

On April 27, 2015, the General Manager executed Task Order No. 2 with WYA in the amount of \$318,074 to provide engineering services for the design of the two projects. The scope of services for Task Order No. 2 included project management, detailed design including preparation of

contract documents, and bid period services for the Plant Facilities Improvements Project and the Sodium Hypochlorite Tanks and Piping Replacement Project.

Amendment No. 1 to Task Order No. 2

On September 30, 2015, staff executed Amendment No. 1 to Task Order No. 2 in the amount of \$37,445 to include installation of a new ferrous chloride tank and pump system at the Degritter Building, a new potable water storage tank located at the Plant, and replacement of PVC distribution piping at the Newark Pump Station. The new project elements were added to the Sodium Hypochlorite Tanks and Piping Replacement Project. Staff also renamed this project the Chemical Tanks and Piping Replacement Project to better reflect the overall project scope.

Project Bidding

West Yost has completed the design of the Chemical Tanks and Piping Replacement Project. To avoid construction at the Maintenance Shop Building's sodium hypochlorite facilities during wet weather, staff will advertise for bids in spring 2016 and anticipates construction to begin by summer 2016.

Staff opened bids for the Plant Facilities Improvement project on December 8, 2015, and the Board awarded the construction contract in the amount of \$1,570,346 to D. W. Nicholson Corporation on December 14, 2015. Staff will issue the Notice to Proceed in January 2016 and anticipates construction to be completed by January 2017.

Task Order No. 3

The scope of services and cost of Task Order No. 3 are summarized below:

Task	Task Description	Amount
1	Project Management and Meetings	\$11,718
2	Submittals and Requests for Information	\$44,866
3	Change Order Assistance	\$6,381
Task Order Not to Exceed Amount		\$62,965

The Task Order's total not-to-exceed amount is 4% of the construction contract. For a project of this size and scope, staff expects the fee to be in the range of 4% to 5%. As a comparison, the table below summarizes the final fees and percentages of engineering services during construction of past plant projects.

Project	Engineering Services During Construction Cost (A)	Construction Cost (B)	Percentage of A to B
Headworks Improvements	\$71,019	\$1,827,115	3.9%
Emergency Outfall Improvements	\$49,805	\$1,088,889	4.6%

The total amounts for the Project's agreement with WYA are summarized in the table below:

Task Order / Amendment	Description of Work	Amount
1	Preliminary Design Services	\$55,567
2	Design & Bid Period Services	\$318,074
Amendment No. 1 to Task Order No. 2	Additional Design Services	\$37,445
3	Engineering Services during Construction	\$62,965
Total		\$474,051

Staff recommends that the Board authorize the General Manager to execute Task Order No. 3 with West Yost Associates in the amount of \$62,965 to provide engineering services for the construction of the Plant Facilities Improvements Project.

PRE/SEG/RC/TL:ks

Attachments: Site Map – Figure 1
Task Order No. 3

FIGURE 1
Site Map



Plant Facilities Improvement Project List

- 1.Repair of the lining in the 60-inch primary effluent pipe between the primary clarifiers and Lift Station No. 1.
- 2.Installation of a jib crane on the roof of the Degritter Building.
- 3.Installation of safety handrailing on the roof of the Degritter Building.
- 4.Relocation of the concrete island at the front vehicle gate to provide safer access for large trucks.
- 5.Installation of permanent groundwater dewatering pumps around Primary Clarifiers Nos. 1-4 to reduce uplift forces exerted on out-of-service tanks.
- 6.Re-coating of the structural steel beams located at the Solar Carport facility.
- 7.Replacement of one of the two bar screens at the Headworks Building.
- 8.Installation of permanent polymer solution piping from the polymer preparation facilities in the GBT building to the effluent channel of the aeration basins.
- 9.Miscellaneous concrete repairs(surge tower, chlorine contact tank walkway, flow meter vault, Newark Pump Station surge tower and wall [not shown])
- 10.Replacement of digester sludge heat exchanger No. 3 and No. 6.
- 11.Re-coating of the structural steel beam joints located at the Covered Storage Building.

**PLANT FACILITIES IMPROVEMENTS PROJECT
(USD Project No. 800-448)**

TASK ORDER NO. 3

TO

**AGREEMENT DATED NOVEMBER 13, 2014
BETWEEN UNION SANITARY DISTRICT
AND WEST YOST ASSOCIATES, INC. FOR
PROFESSIONAL SERVICES**

1. PURPOSE

The purpose of Task Order No. 3 is to authorize engineering services during the construction of the Plant Facilities Improvements Project (Project).

Engineering services to be provided during construction include engineering support, attendance at meetings, submittal reviews, responses to requests for information and design clarification, review of change order requests, and site visits. These services are to be performed by the same engineers who worked on the design and possess detailed knowledge about the Project. District staff will update record drawings based on markups provided by the Contractor and reviewed by the Construction Manager.

2. SCOPE OF SERVICES

The task numbers in this Scope of Services relate directly to the costs presented in Item 5, Payment to the Engineer, and the schedule presented in Item 6, Time of Completion. Deliverables to be received by Union Sanitary District (District) are described under each task item and outlined in Item 3, Deliverables, where applicable.

Task 1. Project Management and On-Site Meetings/Site Visits

This task includes providing construction assistance services as requested by the District including:

- Task 1.01 – Engineer shall provide project management and administration of the project. This task includes a total of 22 hours, which includes 10 hours for Engineer’s subconsultants.

Task 1.02 – Engineer shall attend on-site meetings or site visits during construction as requested by the District to discuss construction progress, investigate problems or issues, to provide construction observations, advice and assistance, or to answer any questions which may arise concerning design intent and other matters affecting completion of the Project. This task includes a total of 34 hours, which includes 14 hours for Engineer’s subconsultants.

The total budget of Task 1 is \$11,718.

Task 2. Review of Submittals and RFIs

This task includes providing construction assistance services as requested by the District including:

- Task 2.01 – Engineer shall respond to miscellaneous questions and queries from the Construction Manager during construction. This task includes a total of 38 hours, which includes 22 hours for Engineer’s subconsultants.
- Task 2.02 – Engineer shall review submittals shop drawings, certificates, substitutions, samples, test results, methods, schedules, and manufacturer’s installation instructions required to be submitted by the construction documents for conformance with the design concept and specifications. Engineer assumes 27 original submittals at 5 hours per submittal and 5 re-submittals at 3 hours per re-submittal for a total of 150 hours, which includes 67 hours for its subconsultants.
- Task 2.03 – Engineer shall review and respond to contractor’s requests for information and clarifications during construction. Engineer assumes 14 RFIs requiring an average effort of 3 hours per RFI for a total of 44 hours, which includes 14 hours for its subconsultants.

The total budget of Task 2 is \$44,866.

Task 3. Change Order Assistance

This task includes providing construction assistance services as requested by the District including:

- Task 3.01 – Engineer shall assist in the review of contractor change order requests during construction. This task includes a total of 12 hours, which includes 4 hours for Engineer’s subconsultants.
- Task 3.02 – Engineer shall provide redesign efforts or technical assistance to the District leading up to change order preparation during construction. This task includes a total of 22 hours, which includes 5 hours for Engineer’s subconsultants.

The total budget for Task 3 is \$6,381.

3. DELIVERABLES

Project deliverables are listed below:

- Responses to submittals as required.
- Responses to RFIs as required.
- Upload information to the District’s online project management system, ProjectMates.

4. PROJECT COORDINATION

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

5. PAYMENT TO THE ENGINEER

Compensation shall be on a time and materials cost basis for services provided under Article 2 of this Agreement in accordance with the Billing Rate Schedule (updated annually) contained in Task Order No.1. The billing rate schedule is generally comparable to a labor multiplier of approximately 3.22.

The estimated costs for Tasks 1 through 3 are presented in Exhibit A. Total charges to the District shall not exceed the total cost of \$62,965 without written authorization from the District.

The following table summarizes all task orders and amendments, if any, including those previously executed under the Agreement, ending with this Task Order:

Task Order / Amendment	Not to Exceed Amount	Board Authorization Required? (Yes/No)	District Staff Approval
Task Order No. 1	\$55,567	No	Paul Eldredge
Task Order No. 2	\$318,074	Yes	Paul Eldredge
Amendment No. 1 to Task Order No. 2	\$37,445	No	Sami Ghossain
Task Order No. 3	\$62,965	Yes	Paul Eldredge
Total	\$474,051		

6. TIME OF COMPLETION

All work defined in Item 2 is scheduled for completion of work within three weeks after completion of construction of the Plant Facilities Improvements Projects. Anticipated construction completion date is January 2017.

7. KEY PERSONNEL

Key engineering personnel or subconsultants assigned to this Task Order are as follows:

Role	Personnel/Subconsultant
Principal-in-Charge	John D. Goodwin
Project Manager	James L. Waters
Project Engineers	Gary Rice Scott Heald
Structural Engineer	Michael Rojansky (Complete Project Solutions)
Electrical Engineer	Todd Beecher (Beecher Engineering, Inc.)

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

IN WITNESS WHEREOF, the parties hereto have made and executed this Task Order No. 3 as of January ____, 2016 and therewith incorporated it as part of the Agreement.

ENGINEER:
WEST YOST ASSOCIATES

DISTRICT:
UNION SANITARY DISTRICT

By: _____
John D. Goodwin
Vice President

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

West Yost Associates	P/VP \$266	PE/PS/PG I \$222	SE/SS/SG II \$208	ESG I \$143	SCADD \$133	ADM IV \$122	Labor		Sub. Beech	Sub. CPS	Costs			
							Hours	Fee			Sub. w/ markup 5%	Other Direct	Total Costs	
PROJECT: Facilities Improvements - Services during Construction														
Task 1	Project Management & Meetings													
1.01 Project Management	2	8				2	12	\$ 2,552	\$ 1,110	\$ 760	\$ 1,964		\$ 4,516	
1.02 Meetings		20					20	\$ 4,440	\$ 1,110	\$ 1,520	\$ 2,762		\$ 7,202	
Subtotal, Task 1 (hours)	2	28	0	0	0	2	32							
Subtotal, Task 1 (\$)	\$ 532	\$ 6,216				\$ 244		\$ 6,992	\$ 2,220	\$ 2,280	\$ 4,726		\$ 11,718	
Task 2	Submittals and RFIs													
2.01 Informal queries & communications		16					16	\$ 3,552	\$ 2,960	\$ 1,140	\$ 4,305		\$ 7,857	
2.02 Submittal Review		4	29	50			83	\$ 14,070	\$ 5,550	\$ 7,600	\$ 13,808		\$ 27,878	
2.03 RFI Responses		10	20				30	\$ 6,380	\$ 1,480	\$ 1,140	\$ 2,751		\$ 9,131	
Subtotal, Task 2 (hours)	0	30	49	50	0	0	129							
Subtotal, Task 2 (\$)		\$ 6,660	\$ 10,192	\$ 7,150				\$ 24,002	\$ 9,990	\$ 9,880	\$ 20,864		\$ 44,866	
Task 3	Change Order Assistance													
3.01 Change Order Request Review		8					8	\$ 1,776		\$ 760	\$ 798		\$ 2,574	
3.02 Change Order Preparation		4	3		8	2	17	\$ 2,820	\$ 370	\$ 570	\$ 987		\$ 3,807	
Subtotal, Task 3 (hours)	0	12	3	0	8	2	25							
Subtotal, Task 3 (\$)		\$ 2,664	\$ 624		\$ 1,064	\$ 244		\$ 4,596	\$ 370	\$ 1,330	\$ 1,785		\$ 6,381	
TOTAL (hours)	2	70	52	50	8	4	186							
TOTAL (\$)	\$ 532	\$ 15,540	\$ 10,816	\$ 7,150	\$ 1,064	\$ 488		\$ 35,590	\$ 12,580	\$ 13,490	\$ 27,375		\$ 62,965	





Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

DATE: January 4, 2016

MEMO TO: Board of Directors - Union Sanitary District

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

SUBJECT: Agenda Item No. 10 – Meeting of January 11, 2016
Consider Confirming and Declaring the Need to Continue the Emergency Action to Repair 33-Inch Sewer on Alvarado Boulevard and Update on the Repairs

Recommendation

Receive update on repairs and adopt motion by a four-fifths vote finding that there is a need to continue the action, and confirming and declaring the continuance of the emergency.

Background

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

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

Therefore, District staff called upon the District's emergency contractor, McGuire & Hester Inc., for assistance. Immediate repairs to the damaged sewer facilities could not be accomplished due

to the high groundwater level and unstable soil conditions. For safety and traffic reasons and to avoid additional damage to the street, McGuire & Hester quickly stabilized the site by backfilling the sinkhole.

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

Update on the Alvarado Boulevard Sewer Main Repairs

Trunk Sewer Repair

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

The five phases envisioned for this repair work are as follows:

Phase 1 – PG&E (Complete): On December 23rd, PG&E disconnected and removed a gas line to facilitate the excavation necessary to complete the final repairs.

Phase 2 – Shoring, Jet Grouting, & Excavation (In Progress): On December 28th, McGuire & Hester mobilized to begin the installation of the sheet pile shoring around the excavation area. The sheet piles will be installed in early January, and will be followed closely by jet grouting, a process during which grout is injected by pressure into the soils surrounding the sheet piles to seal up gaps and prevent water intrusion into the shaft. The jet grouting will be followed by excavation of the shaft itself. Seventy (70) feet of ACWD's water line is in conflict with the shoring plan and will have to be removed for the duration of the repair. The water line will be replaced once the sewer line and manhole replacement is complete.

Phase 3 – Sewer Repair: Once the excavation and shoring is completed, the sewer pipeline repair will proceed. The damaged manhole along with several feet of pipe on each side of it will be completely replaced. In addition, over 700 feet of the existing pipeline upstream and downstream of the damaged manhole will be rehabilitated.

Phase 4 – Backfill: After the sewer repair and rehabilitation is complete, the excavated shaft will be backfilled.

Phase 5 – Utilities: Before the project may be completed, several utilities must be re-connected. PG&E will re-install and reconnect the gas line that was disconnected and removed in Phase 1. McGuire and Hester will replace 70 feet of ACWD's water line removed in Phase 2. A storm drain line temporarily relocated to facilitate shaft excavation will also be replaced.

Phase 6 – Site Restoration: Final restoration work includes reconstructing the damaged street area and re-paving the street and returning to normal traffic operations.

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

Traffic Control

Due to the large size and location of the repair shaft, the resulting available lane width on westbound Alvarado Blvd. will be less than 11 feet. Thus, the City's preference is that westbound Alvarado Blvd. between Fair Ranch Rd. and Fredi St. be closed entirely to facilitate the work and provide the staging area needed by McGuire & Hester. This closure went into effect on December 28, 2015, and will continue through the duration of the project, which is expected by April 15, 2016, weather permitting.

At least one eastbound lane on Alvarado Blvd. will be open at all times. Left turns into and out of New Haven St. will be closed. Westbound transit buses and vehicular traffic are being detoured. The New Haven Unified School District has requested help directing traffic at the school entrance near Fredi St. and Horner St. during the street closure. Staff is working with the Union City Police Dept. and McGuire & Hester to arrange for the appropriate traffic control. The fire truck at Fire Station #32 will continue to be able to enter and exit the fire station safely.

Sewer Bypass

The damaged 33-inch sewer continues to be plugged and its flows bypassed through a permanent overflow pipe to the unaffected 39-inch trunk sewer on the south side of the street. A standby pump is retained on site as a contingency. District Collection Services staff continues to provide daily monitoring of the collection system upstream of the overflow pipe to prevent sanitary sewer overflows, of which none have been reported.

Public Information

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

On December 22nd, a CMS (changeable message sign) traffic board was placed on Alvarado Blvd. notifying motorists of the shutdown of westbound Alvarado Blvd. On December 23rd, staff distributed flyers to the businesses along Alvarado Blvd. and the apartment complex to the west notifying them of the same.

Review of Emergency Status

After the determination of an emergency pursuant to Public Contract Code section 22050, the Board is required to review the status of the emergency action at each subsequent meeting until the emergency action is terminated, and authorize continuation of the emergency action by a four-fifths vote. This staff report seeks such authorization. As discussed above, the sinkhole continues to affect traffic and people that live, work or commute in the area. Further, District facilities need to be protected and there is a need to complete the actions described above as expeditiously as possible. Therefore, staff believes that there is a need to continue the emergency action.

Staff will continue to bring a similar item to the Board until the emergency is terminated.

PRE/SEG/RC/CE:ks

Attachment: Exhibit A – Location Map

EXHIBIT A - LOCATION MAP
ALVARADO BLVD. SEWER REPAIR





Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

DATE: January 4, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager / District Engineer
Regina McEvoy, Assistant to the General Manager / Board Secretary
Karen Murphy, General Counsel

SUBJECT: Agenda Item No. 11 – Meeting of January 11, 2016

GENERAL DISTRICT ELECTION:

(A) CONSIDER A RESOLUTION ORDERING, CALLING, PROVIDING FOR, AND GIVING NOTICE OF A GENERAL ELECTION TO BE HELD IN UNION SANITARY DISTRICT, ALAMEDA COUNTY, CALIFORNIA, ON TUESDAY, JUNE 7, 2016, FOR THE PURPOSE OF ELECTING THREE DIRECTORS; AND

(B) CONSIDER A RESOLUTION ORDERING THE CONSOLIDATION OF THE UNION SANITARY DISTRICT GENERAL ELECTION ON JUNE 7, 2016, WITH THE DIRECT PRIMARY ELECTION TO BE HELD ON JUNE 7, 2016, AND REQUESTING THE BOARD OF SUPERVISORS OF THE COUNTY OF ALAMEDA TO CONSOLIDATE THE GENERAL DISTRICT ELECTION WITH THE DIRECT PRIMARY ELECTION TO BE HELD ON JUNE 7, 2016

Recommendation

- (a) Adopt a Resolution, ordering, calling, providing for, and giving notice of a general election to be held in Union Sanitary District, Alameda County, California, on Tuesday, June 7, 2016, for the purpose of electing three Directors; and
- (b) Adopt a Resolution, ordering the consolidation of the Union Sanitary District general election on June 7, 2016, with the direct primary election to be held on June 7, 2016, and requesting the Board of Supervisors of the County of Alameda to consolidate the general District election with the direct primary election to be held on said date; and
- (c) Authorize staff to notify the Registrar of Voters of the District's intention to consolidate election.

Background

Alameda County will conduct its statewide direct primary election on June 7, 2016. It is customary to consolidate the District's general election with the primary election. This year, the term of three seats will expire, Ward 1 (Union City), Ward 2 (Newark) and Ward 3 (Fremont).

Once the resolutions are adopted, a notice of consolidation must be filed with the Registrar of Voters. The filing period for candidates for the three District Board of Directors positions runs from February 15, 2016, to and including March 11, 2016.

In accordance with previously established District policy, the candidates must pay for their own optional Statement of Qualifications. Advance payment is requested by the Registrar of Voters for this optional statement to be published.

Attachments: Resolution – Notice of Election
 Resolution – Ordering Consolidation of General Election

RESOLUTION NO. _____

**RESOLUTION ORDERING, CALLING, PROVIDING FOR, AND GIVING
NOTICE OF A GENERAL ELECTION TO BE HELD IN UNION SANITARY
DISTRICT, ALAMEDA COUNTY, CALIFORNIA, ON JUNE 7, 2016
FOR THE PURPOSE OF ELECTING THREE DIRECTORS**

BE IT RESOLVED AND ORDERED BY THE BOARD OF DIRECTORS OF UNION SANITARY DISTRICT, Alameda County, California, as follows:

SECTION 1: That an election be, is hereby ordered and called to be held; and,

NOTICE IS HEREBY GIVEN

that the election will be held in UNION SANITARY DISTRICT, Alameda County, California, on Tuesday, June 7, 2016, at the time for the holding of the Direct Primary Election provided for by Elections Code Sections 1000(c) and 1201, State of California, for the purpose of electing

ONE DIRECTOR, WARD 1, SEAT 1; UNION CITY
ONE DIRECTOR, WARD 2, SEAT 2; NEWARK
ONE DIRECTOR, WARD 3, SEAT 3; FREMONT

to hold office for the term prescribed by law and until the election and qualifications of their successors. Term of office for Seats 1, 2, and 3 are for four years, expiring in June 2020.

SECTION 2: The election hereby called and ordered to be held in the District, including the nomination of candidates and the election of Directors and all matters pertaining thereto shall be held and conducted and the results ascertained, determined, and declared in accordance with the applicable provisions of the Health and Safety Code and Elections Code and substantially as herein prescribed and in all other respects as nearly as practicable in conformity to the general election laws of the State of California.

SECTION 3: One Director shall be elected from Ward One, one Director shall be elected from Ward Two, and one Director shall be elected from Ward Three, as defined in Union Sanitary District Ordinance No. 33, at the election, for the term prescribed by law. The Directors shall be residents and registered voters of UNION SANITARY DISTRICT and from the geographical area of the respective Ward each candidate seeks to represent. The ballot shall contain the names of the persons nominated for the office of Director of UNION SANITARY DISTRICT. Candidates shall declare their candidacy; election returns shall be canvassed; the election shall be held and conducted; the results shall be declared; and the certificates of election shall be issued in the same manner as the Declaration of Candidacy, election, canvassing of returns, declaration of results, and issuance of Certificates of Election for County Officers are made, declared, held, conducted, and issued consistent with the provisions of the Elections Code of California and California Health and Safety Code Section 6580.1.

SECTION 4: The election provided for herein is ordered consolidated in accordance with law, with the Direct Primary Election provided for by Elections Code Sections 1000(c) and 1201 to be held in the County of Alameda and in the territory of the UNION SANITARY DISTRICT on June 7, 2016; and the Board of Supervisors of Alameda County is authorized to cause the canvass of the returns of the District election and certify the results of the canvass to the Board of Directors of UNION SANITARY DISTRICT; and such election within the area of the District shall be held in all respects as if there were only one election; and only one form of ballot shall be

used thereat; and the election precincts, polling places, and voting booths shall in every case be the same; and there shall be only one set of election officers in each of the precincts, and they shall be those selected and designated by the Board of Supervisors of Alameda County, California, for the Direct Primary Election.

SECTION 5: Official petitions for eligible candidates desiring to file for each office may be obtained from the office of the Registrar of Voters. Appointment to each elective office will be made as prescribed by California Elections Code Section 10515 in the event there are no nominees for any specific seat or seats and a petition for an election is not filed within the time prescribed by Elections Code Section 10515. In the event of a tie vote, the tie shall be resolved by lot.

SECTION 6: At the next regular meeting of the Board of Directors of UNION SANITARY DISTRICT held after the receipt of the returns of the canvass by the Board of Supervisors of Alameda County, California, the Board of Directors shall determine the results of the election and shall provide a statement of the results of the election as ascertained by the canvass, giving the total votes cast for each candidate for office of Director voted upon at the election.

On motion duly made and seconded, this resolution was adopted by the following vote on January 11, 2016:

AYES:
NOES:
ABSENT:
ABSTAIN:

ATTEST:

JENNIFER TOY
President, Board of Directors
Union Sanitary District

PAT KITE
Secretary, Board of Directors
Union Sanitary District

RESOLUTION NO. _____

RESOLUTION ORDERING THE CONSOLIDATION OF THE UNION SANITARY DISTRICT GENERAL ELECTION ON JUNE 7, 2016, WITH THE DIRECT PRIMARY ELECTION TO BE HELD ON JUNE 7, 2016, AND REQUESTING THE BOARD OF SUPERVISORS OF THE COUNTY OF ALAMEDA TO CONSOLIDATE THE GENERAL DISTRICT ELECTION WITH THE DIRECT PRIMARY ELECTION TO BE HELD ON JUNE 7, 2016

WHEREAS, the Board of Directors of the UNION SANITARY DISTRICT of Alameda County, State of California, has called a General District Election to be held in said District on June 7, 2016, for the purpose of electing a successor for each of the three (3) members whose terms are about to expire; and

WHEREAS, the Board of Directors of UNION SANITARY DISTRICT has declared its intention that all General District Elections for the election of Directors be consolidated with and held on the same date as the Direct Primary Election is to be held in accordance with Health and Safety Code Section 6580.1 of the State of California; now, therefore, be it

RESOLVED as follows:

1. That the General District Election to be held on June 7, 2016, in the UNION SANITARY DISTRICT, of Alameda County, shall be and the same hereby is consolidated with the Direct Primary Election to be held on that date;

2. Pursuant to the provisions of Elections Code Section 10400 *et seq.* of the State of California, the Board of Directors of the UNION SANITARY DISTRICT hereby requests the Board of Supervisors of Alameda County, California, to consolidate, in accordance with the law, the General District Election ordered and called to be held on June 7, 2016, with the Direct Primary Election to be held on June 7, 2016, as provided by California Elections Code Sections 1000(c) and 1201 and Health and Safety Code Section 6580.1;

3. Any candidate filing a candidate's statement of qualifications pursuant to California Elections Code Section 13307 shall pay the actual prorated costs of printing and handling said candidate's statement as provided therein. Such payment is to be made in advance to the Registrar of Voters. The candidate's statement shall contain no more than 200 words. Candidates will not be permitted to submit other materials to be sent with the sample ballot and voter's pamphlet.

On motion duly made and seconded, this resolution was adopted by the following vote on January 11, 2016:

AYES:
NOES:
ABSENT:
ABSTAIN:

JENNIFER TOY, President
Board of Directors Union
Sanitary District

ATTEST:

PAT KITE, Secretary
Board of Directors Union
Sanitary District

**UNION SANITARY DISTRICT
CHECK REGISTER
12/05/2015-01/01/2016**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159755	12/23/2015	64006	RANGER PIPELINES INC	NEWARK BACKYARD SS RELOCATION - PHASE 2	\$159,816.60	\$159,816.60
159737	12/23/2015	800394.16	GSE CONSTRUCTION CO INC	THICKENER CONTROL BLDG IMPROV PHASE II	\$155,508.35	\$155,508.35
159771	12/23/2015	2028638	WEST YOST ASSOCIATES	PINE STREET EASEMENT	\$10,229.93	\$65,539.53
	12/23/2015	2028639		CS PREVENTATIVE MAINTENANCE PROGRAM EVALUATION	\$12,610.20	
	12/23/2015	2028636		NEWARK BACKYARD SS RELOCATION - PHASE 2	\$1,031.50	
	12/23/2015	2028641		SLUDGE DEGRITTER SYSTEM	\$16,949.50	
	12/23/2015	2028640		PLANT FACILITIES IMPROVEMENTS	\$18,947.40	
	12/23/2015	2028637		NEWARK BACKYARD SS RELOCATION - PHASE 3	\$5,771.00	
159829	12/30/2015	30103751	SYNAGRO WEST LLC	NOVEMBER 2015 BIOSOLIDS DISPOSAL	\$51,348.20	\$51,348.20
159750	12/23/2015	170120151209	PACIFIC GAS AND ELECTRIC	SERV TO 11/19/15 PLANT	\$50,919.24	\$50,919.24
159690	12/17/2015	1009622	POLYDYNE INC	44,380 LBS CLARIFLOC C-6267	\$38,956.76	\$38,956.76
159739	12/23/2015	3419	INFOR PUBLIC SECTOR, INC	INFOR (HANSEN) ANNUAL SUPPORT	\$37,503.54	\$37,503.54
159796	12/30/2015	20150231	COVELLO GROUP INC	FREMONT & PASEO PADRE LS IMPROVEMENTS	\$5,322.00	\$35,644.00
	12/30/2015	20150068		NEWARK BACKYRD SS RELOC PH 2 & MISC SPOT REPAIRS PHASE VI	\$30,322.00	
159727	12/23/2015	201303519	COVELLO GROUP INC	THICKENER CONROL BUILDING IMPROVEMENTS PHASE II	\$33,162.35	\$33,162.35
159599	12/10/2015	2241	CDW GOVERNMENT LLC	87 NETWORK SWITCHES FOR NEW PHONE SYSTEM	\$27,130.40	\$30,664.15
	12/10/2015	3793		1 TABLET CASES AND MICE	\$108.90	
	12/10/2015	3159		2 DR CABINET SAN SWITCHES	\$3,424.85	

**UNION SANITARY DISTRICT
CHECK REGISTER
12/05/2015-01/01/2016**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159763	12/23/2015	45147539	TYLER TECHNOLOGIES INC	EDEN SOFTWARE MAINTENANCE SUPPORT		
					\$28,491.91	\$28,491.91
159596	12/10/2015	194612	BURKE, WILLIAMS & SORENSON LLP	SPECIAL COUNSEL SERVICES - SEPTEMBER 2015		
					\$27,469.69	\$27,469.69
159660	12/17/2015	195179	BURKE, WILLIAMS & SORENSON LLP	GENERAL LEGAL/CIP - OCTOBER 2015		
					\$486.20	\$24,671.80
	12/17/2015	1946132		GENERAL LEGAL - SEPTEMBER 2015		
					\$1,430.00	
	12/17/2015	195178		GENERAL LEGAL - OCTOBER 2015		
					\$22,755.60	
159827	12/30/2015	467.4	SIEGEL & STRAIN ARCHITECTS	FMC BUILDING - NEW		
					\$23,530.00	\$23,530.00
159666	12/17/2015	XJTD7J93	DELL MARKETING LP C/O DELL USA	10 FY16 Q2 DESKTOPS		
					\$21,136.26	\$21,136.26
159703	12/17/2015	533620151123	US BANK CORP PAYMENT SYSTEM	MONTHLY CAL CARD STMT - NOV 2015		
					\$20,858.94	\$20,858.94
159630	12/10/2015	761520151125	PACIFIC GAS AND ELECTRIC	SERV TO 11/23/15 NEWARK PS		
					\$15,137.02	\$15,137.02
159652	12/17/2015	7692	AMERICAN DISCOUNT SECURITY	NOV - GUARD AT SINKHOLE		
					\$5,842.00	\$14,375.00
	12/17/2015	7691		NOV SECURITY GUARD SERVICES		
					\$621.00	
	12/17/2015	7640		NOV - GUARD AT SINKHOLE		
					\$7,912.00	
159598	12/10/2015	145148	CAROLLO ENGINEERS	FREMONT & PASEO PADRE LS IMPROVEMENTS		
					\$1,282.35	\$13,299.89
	12/10/2015	145246		HIGH SPEED AERATION BLOWER		
					\$12,017.54	
159833	12/30/2015	316249	WATSON-MARLOW INC	1 BREDEL 40 PUMP ASSEMBLY		
					\$12,945.73	\$12,945.73
159646	12/10/2015	35400	WECO INDUSTRIES LLC	120 GALS SANAFOAM VAPOROOTER II		
					\$7,996.53	\$11,983.13
	12/10/2015	35304		REPAIR OF CAMERA		
					\$2,314.65	
	12/10/2015	35303		REPAIR OF CAMERA		
					\$657.93	
	12/10/2015	35302		4 CABLE ASSY		
					\$1,014.02	

**UNION SANITARY DISTRICT
CHECK REGISTER
12/05/2015-01/01/2016**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159667	12/17/2015	902412328	EVOQUA WATER TECHNOLOGIES	DI WATER SYSTEM		
					\$222.00	\$11,182.40
	12/17/2015	902416439		23,500 LBS HYDROGEN PEROXIDE		
					\$10,960.40	
159721	12/23/2015	28292	CALIFORNIA WATER TECHNOLOGIES	44,680 LBS FERROUS CHLORIDE		
					\$5,291.19	\$10,292.28
	12/23/2015	28306		42,620 LBS FERROUS CHLORIDE		
					\$5,001.09	
159823	12/30/2015	21006	RMC WATER AND ENVIRONMENT	ALVARADO TREATMENT PLANT SITE USE STUDY		
					\$10,168.29	\$10,168.29
159601	12/10/2015	302642	COMTEL SYSTEMS TECHNOLOGY	PHYSICAL ACCESS CONTROL SYSTEM UPGRADE PHASE 1		
					\$9,686.20	\$9,686.20
159783	12/30/2015	73644	BAILEY FENCE CO INC	PRIVACY FABRIC IRVINGTON PS FENCE		
					\$9,341.00	\$9,341.00
159641	12/10/2015	718305	UNIVAR USA INC	5,019 GALS SODIUM HYPOCHLORITE		
					\$2,269.64	\$9,077.67
	12/10/2015	717272		5,009 GALS SODIUM HYPOCHLORITE		
					\$2,265.12	
	12/10/2015	717139		5,028 GALS SODIUM HYPOCHLORITE		
					\$2,273.72	
	12/10/2015	717586		5,018 GALS SODIUM HYPOCHLORITE		
					\$2,269.19	
159769	12/23/2015	20163363	WATEREUSE ASSOCIATION	2016 MEMBERSHIP DUES		
					\$8,624.00	\$8,624.00
159738	12/23/2015	800394.16E	GSE CONSTRUCTION CO INC	THICKENER CONTROL BLDG IMPROV PHASE II - ESCROW PYMT		
					\$8,184.65	\$8,184.65
159811	12/30/2015	2832	KOFF & ASSOCIATES	RECRUITMENT SERVICES - BUSINESS SERVICES MGR & COACH		
					\$8,171.75	\$8,171.75
159620	12/10/2015	37432220151201	LINCOLN NATIONAL LIFE INS COMP	LIFE & DISABILITY INSURANCE - DEC 2015		
					\$7,867.62	\$7,867.62
159820	12/30/2015	1012480	POLYDYNE INC	41,460 LBS CLARIFLOC WE-539		
					\$7,296.96	\$7,296.96
159677	12/17/2015	10996322	KRONOS INC	TIMEKEEPING SYSTEM CONFIGURATION AND SUPPORT		
					\$2,115.00	\$7,290.00
	12/17/2015	11005077		KRONOS CONFIGURATION & SUPPORT		
					\$2,115.00	
	12/17/2015	10987333		KRONOS CONFIGURATION & SUPPORT		
					\$3,060.00	

**UNION SANITARY DISTRICT
CHECK REGISTER
12/05/2015-01/01/2016**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159831	12/30/2015	120548	VAVRINEK, TRINE, DAY & CO LLP	AUDITING SERVICES NOVEMBER 2015	\$6,900.00	\$6,900.00
159807	12/30/2015	9713701	HILTON FARNKOPF & HOBSON LLC	SEWER SERVICE CHARGE PEER REVIEW	\$6,855.00	\$6,855.00
159830	12/30/2015	721133	UNIVAR USA INC	5,051 GALS SODIUM HYPOCHLORITE	\$2,284.11	\$6,817.50
	12/30/2015	720279		5,013 GALS SODIUM HYPOCHLORITE	\$2,266.92	
	12/30/2015	720400		5,012 GALS SODIUM HYPOCHLORITE	\$2,266.47	
159702	12/17/2015	718677	UNIVAR USA INC	5,019 GALS SODIUM HYPOCHLORITE	\$2,269.64	\$6,808.92
	12/17/2015	719410		5,020 GALS SODIUM HYPOCHLORITE	\$2,270.09	
	12/17/2015	718748		5,018 GALS SODIUM HYPOCHLORITE	\$2,269.19	
159637	12/10/2015	20872	RMC WATER AND ENVIRONMENT	ALVARADO TREATMENT PLANT SITE USE STUDY	\$3,596.81	\$6,690.79
	12/10/2015	20934		IRVINGTON BASIN SEWER MASTER PLAN UPDATE	\$3,093.98	
159717	12/23/2015	15062	AQUADYNE ASSOCIATES	2 - 2" COMBINATION AIR RELEASE & VACUUM	\$6,588.49	\$6,588.49
159812	12/30/2015	270045674	KROHNE INC	3 EA FLOWMETERS	\$6,140.10	\$6,140.10
159685	12/17/2015	21337	ORATECH CONTROLS INC	MANHOLE MONITOR PRGM SENSORS & INSTALLATION	\$5,805.90	\$5,805.90
159662	12/17/2015	22124	CLI-METRICS SERVICE COMPANY	SERVICE REQUEST: BLDG 70 LAB HOOD VENTS	\$570.00	\$5,800.03
	12/17/2015	17756		MONTHLY MAINTENANCE BLDG 81 NOV	\$306.64	
	12/17/2015	22103		SERVICE REQUEST: REPLACE DRIVE SHEAVE & BELT	\$1,888.29	
	12/17/2015	22056		SERVICE REQUEST: BOILER LEAK	\$3,035.10	
159704	12/17/2015	817914	VALLEY OIL COMPANY	2,400 GALS DYED DIESEL	\$5,611.85	\$5,611.85

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159609	12/10/2015	21640973	GLOBAL KNOWLEDGE TRAINING	CISCO PHONE SYSTEM TRAINING - M. GILL	\$2,708.58	\$5,492.50
	12/10/2015	21641174		CISCO PHONE SYSTEM TRAINING - T. JACOB	\$2,783.92	
159597	12/10/2015	28226	CALIFORNIA WATER TECHNOLOGIES	45,080 LBS FERROUS CHLORIDE	\$5,300.43	\$5,300.43
159800	12/30/2015	20151207	ENFO TECH & CONSULTING INC	ECMS IMPLEMENTATION	\$5,220.00	\$5,220.00
159764	12/23/2015	3089	CITY OF UNION CITY	2016 HAZ MAT FEES, PERMIT FEES	\$5,171.00	\$5,171.00
159615	12/10/2015	28267017001	HERTZ EQUIPMENT RENTAL	MIX TANK RENTAL AND SPILL GUARD PURCHASE	\$5,059.99	\$5,059.99
159789	12/30/2015	28313	CALIFORNIA WATER TECHNOLOGIES	42,740 LBS FERROUS CHLORIDE	\$5,023.85	\$5,023.85
159722	12/23/2015	1134	CDW GOVERNMENT LLC	34 MICE FOR GALAXY NOTE	\$1,084.60	\$4,997.66
	12/23/2015	9110		2 DR CABINET SAN SWITCHES	\$475.06	
	12/23/2015	1362		7 NETWORK SWITCHES FOR NEW PHONE SYSTEM	\$3,111.30	
	12/23/2015	9376		3 TABLET CASES	\$326.70	
159774	12/30/2015	64922	3T EQUIPMENT COMPANY INC	6 PIPEPATCH KIT - WINTER	\$3,037.82	\$4,997.49
	12/30/2015	64911		ASTD PARTS & MATERIALS	\$257.40	
	12/30/2015	64921		6 LEADERHOSE F X F COUPLINGS	\$1,702.27	
159661	12/17/2015	28268	CALIFORNIA WATER TECHNOLOGIES	44,300 LBS FERROUS CHLORIDE	\$4,971.89	\$4,971.89
159628	12/10/2015	4063	OJO TECHNOLOGY INC	CCTV & ACCESS CONTROL ANNUAL SUPPORT	\$4,850.00	\$4,850.00
159784	12/30/2015	100220151208	BARTLE WELLS ASSOCIATES	CAPACITY FEE UPDATE	\$4,829.88	\$4,829.88
159765	12/23/2015	719449	UNIVAR USA INC	5,020 GALS SODIUM HYPOCHLORITE	\$2,270.09	\$4,553.75
	12/23/2015	719997		5,050 GALS SODIUM HYPOCHLORITE	\$2,283.66	

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159754	12/23/2015	151130	PROSAFE	40 HRS INSPECTIONS & 5 HRS SPCC		
					\$4,500.00	\$4,500.00
159611	12/10/2015	9880702551	GRAINGER INC	2 EA PRESSURE GAUGES		
					\$139.50	\$4,417.31
	12/10/2015	9883592744		4 EA METERS		
					\$3,407.83	
	12/10/2015	9880095311		ASTD PARTS & MATERIALS		
					\$653.57	
	12/10/2015	9880095303		6 EA NIPPLES		
					\$13.72	
	12/10/2015	9884654816		ASTD PARTS & MATERIALS		
					\$202.69	
159726	12/23/2015	17513034105	CORIX WATER PRODUCTS INC	50 MANHOLE CASTINGS		
					\$4,078.26	\$4,078.26
159649	12/17/2015	4105755820151130	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 11/30/15-MTR HYD 15210655		
					\$1,106.93	\$3,927.86
	12/17/2015	4105755520151130		SERV TO: 11/30/15-MTR HYD 19866544		
					\$490.66	
	12/17/2015	4105756020151130		SERV TO: 11/30/15-MTR HYD 33481982		
					\$608.64	
	12/17/2015	4105755620151130		SERV TO: 11/30/15-MTR HYD 18486436		
					\$482.15	
	12/17/2015	4105755420151130		SERV TO: 11/30/15-MTR HYD 29389785		
					\$401.66	
	12/17/2015	4015755320151130		SERV TO: 11/30/15-MTR HYD 19866546		
					\$401.66	
	12/17/2015	4105755720151130		SERV TO: 11/30/15-MTR HYD 19866542		
					\$436.16	
159701	12/17/2015	130814	TOTAL WASTE SYSTEMS INC	NOVEMBER 2015 GRIT DISPOSAL		
					\$3,838.01	\$3,838.01
159751	12/23/2015	103321	PIIAN SYSTEMS LLC	6 ODOR NEUTRALIZER - INDUSTRIAL CONCENTRATE (5 GALLON PAIL)		
					\$3,623.61	\$3,623.61
159623	12/10/2015	582121	MISSION CLAY PRODUCTS LLC	24 EA CLAY FITTINGS		
					\$1,102.54	\$3,592.17
	12/10/2015	582131		31 EA ASTD CLAY COUPLINGS		
					\$2,489.63	
159714	12/23/2015	20151115	AMAZON.COM LLC	11/15 - ASTD OFFICE SUPPLIES		
					\$3,586.48	\$3,586.48

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159632	12/10/2015	29591358	PAN PACIFIC SUPPLY COMPANY	2 CHESTERTON 442 SPK RSC/CB/FKM	\$3,495.14	\$3,495.14
159627	12/10/2015	SECOA2	NIXON-EGLI EQUIP OF S. CAL	1 EA SMART CUTTER KIT	\$3,465.30	\$3,465.30
159725	12/23/2015	52462	CITYLEAF INC	HOLIDAY DECOR RENTAL	\$3,027.75	\$3,447.98
	12/23/2015	52375		PLANT MAINTENANCE - DEC 2015	\$420.23	
159605	12/10/2015	108971	FOLGER GRAPHICS	85,000 RATE NOTIFICATION MAILERS	\$3,441.80	\$3,441.80
159787	12/30/2015	582530	BRENNTAG PACIFIC, INC.	3846 LBS SODIUM HYDROXIDE	\$2,035.67	\$3,392.77
	12/30/2015	582531		2564 LBS SODIUM HYDROXIDE	\$1,357.10	
159670	12/17/2015	8080	GENMORE PLUMBING	REFUND # 18593	\$3,300.00	\$3,300.00
159681	12/17/2015	0915	MOOSEPOINT TECHNOLOGY INC	GEOSMART.NET SWM RENEWAL	\$3,225.00	\$3,225.00
159684	12/17/2015	69999	OPTIMUM SOLUTIONS INC	OPTIMUM ANNUAL SUPPORT FEE	\$3,196.21	\$3,196.21
159694	12/17/2015	3177	SIGNET TESTING LABS INC	MISC SPOT REPAIRS PHASE VI	\$576.96	\$3,089.00
	12/17/2015	3172		NEWARK BACKYARD SS RELOCATION - PHASE 2	\$971.35	
	12/17/2015	3186		ALVARADO BLVD SEWER MAIN REPAIR	\$1,540.69	
159619	12/10/2015	1779	KEN GRADY CO INC	1 EA GAS DETECTOR	\$3,000.26	\$3,000.26
159626	12/10/2015	16362	NEOGOV	NEOGOV ANNUAL SERVICE	\$3,000.00	\$3,000.00
159692	12/17/2015	20151216	MARIA BUCKLEY	TUITION REIMB - FALL QTR 2015	\$3,000.00	\$3,000.00
159675	12/17/2015	28267017000	HERTZ EQUIPMENT RENTAL	MIX TANK RENTAL AND SPILL GUARD PURCHASE	\$2,926.00	\$2,926.00

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159638	12/10/2015	7547670218	ROYAL WHOLESALE ELECTRIC	2 PRODUCT SUPPORT		
					\$1,971.00	\$2,762.98
	12/10/2015	7547669835		1 10-PORT ALLEN BRADLEY STRATIX SWITCH		
					\$2,270.66	
	12/10/2015	7547310830		RETURN 1 6-PORT MANAGED SW		
					\$-1,478.68	
159810	12/30/2015	994260	JET-CARE INTERNATIONAL INC	50 EA COGEN OIL SAMPLE KITS		
					\$2,729.84	\$2,729.84
159655	12/17/2015	7327422	AT&T	SERV: 10/20/15 - 11/19/15		
					\$17.96	\$2,699.36
	12/17/2015	7321710		SERV: 10/20/15 - 11/19/15		
					\$2,681.40	
159819	12/30/2015	201512	NICHOLAS J PEROS	SCADA MASTER PLAN & SCADA STANDARDS		
					\$2,697.30	\$2,697.30
159613	12/10/2015	1135805	GROENIGER AND COMPANY	ASTD PVC SEWER PIPE & MATERIALS		
					\$2,360.94	\$2,593.11
	12/10/2015	1133620		2EA ASTD ADAPTERS		
					\$232.17	
159686	12/17/2015	666720151202	PACIFIC GAS AND ELECTRIC	SERV TO 12/01/15 PASEO PADRE PS		
					\$183.58	\$2,554.72
	12/17/2015	892820151202		SERV TO 12/01/15 HAYWARD MARSH		
					\$49.05	
	12/17/2015	140120151207		SERV TO 12/03/15 IRVINGTON PS		
					\$26.60	
	12/17/2015	380420151202		SERV TO 11/30/15 CHERRY ST PS		
					\$201.65	
	12/17/2015	096020151202		SERV TO 12/01/15 CATHODIC PROJECT		
					\$56.43	
	12/17/2015	898220151202		SERV TO 12/01/15 FREMONT PS		
					\$241.12	
	12/17/2015	013720151207		SERV TO 12/06/15 BOYCE RD PS		
					\$1,796.29	

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159804	12/30/2015	9899872031	GRAINGER INC	12 PACKS MINI PAINT ROLLERS	\$73.12	\$2,537.63
	12/30/2015	9899872023		ASTD PARTS & MATERIALS	\$939.37	
	12/30/2015	9896605426		1 EA PUMP	\$223.50	
	12/30/2015	9901795198		2 EA MALE CONNECTORS	\$19.16	
	12/30/2015	9898257648		10 EA FUSES	\$155.87	
	12/30/2015	9897100864		1 EA CABLE CONNECTOR	\$2.52	
	12/30/2015	9899872049		1 EA COUPLER	\$24.58	
	12/30/2015	9896843407		ASTD PARTS & MATERIALS	\$836.92	
	12/30/2015	9897871365		1 EA DIGITAL BATH SCALE	\$37.86	
	12/30/2015	9899872056		1 EA FUSE	\$205.71	
	12/30/2015	9897871373		1 EA BACK SUPPORT W/SUSPENDERS	\$19.02	
159591	12/10/2015	7595	ALL BAY CONTRACTORS	REFUND # 18584	\$2,500.00	\$2,500.00
159705	12/17/2015	9755926515	VERIZON WIRELESS	WIRELESS SERV 10/21/15-11/20/15	\$2,499.04	\$2,499.04

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159679	12/17/2015	45392486	MCMASTER SUPPLY INC	2 EA LOCKING KEY-CONTROL CABINETS		\$2,410.97
					\$63.57	
	12/17/2015	44012710		10 PACKS ASTD ENGRAVING PLATES		
					\$58.82	
	12/17/2015	44092816		ASTD PARTS & MATERIALS		
					\$300.57	
	12/17/2015	44400231		25 FEET TUBING		
					\$41.60	
	12/17/2015	45074828		15 EA CHAIN LINKS		
					\$278.90	
	12/17/2015	45320226		1 PACK LOCKNUTS		
					\$16.87	
	12/17/2015	440952617		ASTD PARTS & MATERIALS		
					\$79.87	
	12/17/2015	45689830		ASTD PARTS & MATERIALS		
					\$66.39	
	12/17/2015	45589100		ASTD PARTS & MATERIALS		
					\$1,504.38	
159708	12/17/2015	4244	ZELAYA DESIGNS	PUBLIC NOTICE MAILER	\$2,394.00	\$2,394.00

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159622	12/10/2015	44548270	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	\$324.79	\$2,301.03
	12/10/2015	44573566		10 EA BLADES FOR PORTABLE BAND SAW	\$127.68	
	12/10/2015	44836139		CREDIT FOR INV 44200945	\$-67.92	
	12/10/2015	44573565		ASTD PARTS & MATERIALS	\$190.86	
	12/10/2015	45074827		ASTD PARTS & MATERIALS	\$288.24	
	12/10/2015	44494227		2 EA RECHARGEABLE SEALED LEAD-ACID BATTERIES	\$64.05	
	12/10/2015	44505951		2 EA HEAVY DUTY MOISTURE-SEAL TUBING	\$67.92	
	12/10/2015	44597792		1 EA BLACK OXIDE HIGH-SPEED-STEEL JOBBERS' DRILL SET	\$134.80	
	12/10/2015	446095823		2 PACKS REPLACEMENT FILTERS	\$13.21	
	12/10/2015	44749377		1 PACK QUICK-CHANGE SANDING DISCS	\$20.64	
	12/10/2015	44597791		1 EA ROUND SHANK MASONRY DRILL	\$49.70	
	12/10/2015	44749378		ASTD PARTS & MATERIALS	\$1,087.06	
159749	12/23/2015	XCTZO10	PACHECO BROTHERS GARDENING INC	LANDSCAPE MAINTENANCE SERVICES DECEMBER 2015	\$1,365.00	\$2,280.00
	12/23/2015	XCTZO11		WEED ABATEMENT WORK DECEMBER 2015	\$915.00	
159658	12/17/2015	111555	BEECHER ENGINEERING	SCADA MASTER PLAN AND SCADA STANDARDS	\$540.00	\$2,240.00
	12/17/2015	111553		STANDBY POWER SYSTEM UPGRADE	\$1,700.00	

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159736	12/23/2015	9894725747	GRAINGER INC	1 PACK MINI PAINT ROLLERS	\$6.10	\$2,212.86
	12/23/2015	9891843212		1 EA ENCLOSURE	\$712.47	
	12/23/2015	9894725754		ASTD PARTS & MATERIALS	\$1,427.17	
	12/23/2015	9894568188		1 CS SANITIZING WIPES	\$67.12	
159798	12/30/2015	20151125	DALE HARDWARE INC	11/15 - ASTD PARTS & MATERIALS	\$2,185.88	\$2,185.88
159600	12/10/2015	98816	CLARY BUSINESS MACHINES	1 SHREDDER - 1ST FLOOR ADMIN WORKROOM	\$2,149.20	\$2,149.20
159672	12/17/2015	9889331048	GRAINGER INC	ASTD PARTS & MATERIALS	\$235.28	\$2,113.59
	12/17/2015	9886575449		1 PACK THROWAWAY RED FLAGS	\$35.33	
	12/17/2015	9886441832		1EA 9X6 POLYESTER BAG	\$15.08	
	12/17/2015	9885842154		ASTD PARTS & MATERIALS	\$1,779.00	
	12/17/2015	9886241596		1 EA FLOAT BALL	\$18.45	
	12/17/2015	9886977314		2 EA CASES	\$30.45	
159818	12/30/2015	8385998	OPEN TEXT	ALCHEMY ANNUAL SOFTWARE SUPPORT	\$2,000.00	\$2,000.00
159636	12/10/2015	916002590060	REPUBLIC SERVICES #916	RECYCLE & ROLL OFF - NOVEMBER 2015	\$1,949.00	\$1,949.00
159663	12/17/2015	20151128	COMMUNICATION & CONTROL INC	UTILITY FEE/ANTENNA RENTAL	\$1,877.30	\$1,877.30
159767	12/23/2015	5063	VON EUW TRUCKING	46.97 TONS 3/4 CLASS II AB & 23.81 TONS 3/4 CRUSH	\$1,868.94	\$1,868.94
159834	12/30/2015	35449	WECO INDUSTRIES LLC	6 O-RINGS	\$43.10	\$1,839.47
	12/30/2015	35503		ASTD PARTS & MATERIALS	\$1,469.56	
	12/30/2015	35448		4 ROLLER LEVELWIND & 2 ROLLER KEEPER	\$326.81	

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159794	12/30/2015	30033	COLANTUONO HIGHSMITH & WHATLEY	PROP 218 ADVICE	\$1,688.50	\$1,688.50
159791	12/30/2015	145666	CAROLLO ENGINEERS	ON-CALL SERVICES	\$1,617.00	\$1,617.00
159674	12/17/2015	1628724	HANSON AGGREGATES INC	5.69 TONS 1/2 MED TYPE A AC-R	\$431.89	\$1,583.83
	12/17/2015	1629327		5.12 TONS 1/2 MED TYPE A AC-R	\$389.45	
	12/17/2015	1627230		10.13 TONS 1/2 MED TYPE A AC-R	\$762.49	
159698	12/17/2015	3285726022	STAPLES CONTRACT & COMMERCIAL	ASTD OFFICE & BREAKROOM SUPPLIES - INVENTORY	\$913.37	\$1,525.87
	12/17/2015	3285726032		ASTD OFFICE & BREAKROOM SUPPLIES - INVENTORY	\$77.15	
	12/17/2015	3285726038		ASTD OFFICE & BREAKROOM SUPPLIES - INVENTORY	\$-19.44	
	12/17/2015	3285726043		ASTD JANITORIAL SUPPLIES - INVENTORY	\$515.91	
	12/17/2015	3285726034		ASTD OFFICE & BREAKROOM SUPPLIES - INVENTORY	\$-112.79	
	12/17/2015	3285726037		ASTD OFFICE & BREAKROOM SUPPLIES - INVENTORY	\$112.79	
	12/17/2015	3285726041		ASTD OFFICE & BREAKROOM SUPPLIES - INVENTORY	\$19.44	
	12/17/2015	3285726028		ASTD OFFICE & BREAKROOM SUPPLIES - INVENTORY	\$19.44	
159815	12/30/2015	46289079	MCMaster SUPPLY INC	ASTD PARTS & MATERIALS	\$1,493.25	\$1,513.97
	12/30/2015	46075795		1 EA OUTDOOR EXTENSION CORD	\$20.72	
159629	12/10/2015	100006911	OPTIV SECURITY INC	KNOWBE4 RENEWAL	\$1,500.00	\$1,500.00
159728	12/23/2015	260816	CURTIS & TOMPKINS, LTD	2 LAB SAMPLE ANALYSIS	\$80.00	\$1,315.00
	12/23/2015	260809		22 LAB SAMPLE ANALYSIS	\$1,235.00	
159814	12/30/2015	12164	LOOKINGPOINT INC	3 EA PLANT BRIDGE ANTENNAS	\$1,236.02	\$1,236.02

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159782	12/30/2015	6355190306	AT&T	SERV: 12/10/15 - 01/09/16	\$1,178.56	\$1,178.56
159740	12/23/2015	200810870	IRON MOUNTAIN	DATA/MEDIA OFF-SITE STORAGE - NOV 2015	\$235.26	\$1,169.43
	12/23/2015	6279		OFF-SITE STORAGE AND SERVICES NOV 2015	\$292.55	
	12/23/2015	6780		OFF-SITE STORAGE AND SERVICES NOV 2015	\$641.62	
159730	12/23/2015	5222	DW NICHOLSON CORP	REPLACE TWO PIECES OF COGEN GRATING	\$1,156.00	\$1,156.00
159588	12/10/2015	7862215	ABC IMAGING, INC.	PLANT FACILITIES IMPROVEMENTS	\$1,150.00	\$1,150.00
159826	12/30/2015	2704304002	S & S SUPPLIES & SOLUTIONS	40 HARD HATS WITH BRIMS	\$1,119.80	\$1,119.80
159594	12/10/2015	929091	BAY AREA NEWS GROUP EAST BAY	PLANT FACILITIES IMPROVEMENTS	\$1,097.46	\$1,097.46
159631	12/10/2015	15243	PACIFIC WATER RESOURCES	REPAIR FLOWSERVE MODEL ISC2-PX MECHANICAL SEAL	\$1,058.72	\$1,058.72
159653	12/17/2015	529793	A-PRO PEST CONTROL INC	NOV PEST CONTROL	\$1,005.00	\$1,005.00
159716	12/23/2015	532991	A-PRO PEST CONTROL INC	DEC PEST CONTROL	\$1,005.00	\$1,005.00
159603	12/10/2015	7719	DRAINLINE SEWER SPECIALIST	REFUND # 17872	\$500.00	\$1,000.00
	12/10/2015	8035		REFUND # 18579	\$500.00	
159776	12/30/2015	9046166861	AIRGAS NCN	ASTD PARTS & MATERIALS	\$108.55	\$975.69
	12/30/2015	9932056843		CYLINDER RENTAL	\$867.14	
159761	12/23/2015	733684600	TELEPACIFIC COMMUNICATIONS	WIRELESS INTERNET BACKUP - DECEMBER	\$974.43	\$974.43
159772	12/23/2015	25656	WILEY PRICE & RADULOVICH LLP	LABOR & EMPLOYMENT LAW FEES	\$947.00	\$947.00
159621	12/10/2015	12057	LOOKINGPOINT INC	2 EA REDUNDANT SERVER POWER SUPPLIES	\$935.10	\$935.10
159825	12/30/2015	7599973300	RS HUGHES CO INC	ASTD PPE & SAFETY SUPPLIES	\$865.43	\$865.43

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159821	12/30/2015	12883894	QUIKRETE NORTHERN CALIFORNIA	112 BGS 60# BLACKTOP PATCH	\$858.92	\$858.92
159693	12/17/2015	8122768120315	SIERRA SPRING WATER COMPANY	BOTTLESS COOLERS RENTAL	\$241.17	\$852.39
	12/17/2015	4868173120315		WATER SERVICE 11/06/15 - 12/03/15	\$611.22	
159593	12/10/2015	7295285	AT&T	SERV: 10/13/15 - 11/12/15	\$99.05	\$831.49
	12/10/2015	7299251		SERV: 10/13/15 - 11/12/15	\$43.14	
	12/10/2015	7286114		SERV: 10/13/15 - 11/12/15	\$646.16	
	12/10/2015	7299380		SERV: 10/13/15 - 11/12/15	\$43.14	
159806	12/30/2015	1633130	HANSON AGGREGATES INC	10.90 TONS 1/2 MED TYPE A AC-R	\$819.83	\$819.83
159590	12/10/2015	9045454791	AIRGAS NCN	2 CYL ARGON	\$816.63	\$816.63
159682	12/17/2015	24855565	MOTION INDUSTRIES INC	1 EA TRI-POWER BELT	\$19.39	\$789.80
	12/17/2015	24855556		1 EA SHAFT	\$127.34	
	12/17/2015	24855880		12 EA BATTERY PACKS	\$643.07	
159617	12/10/2015	944720151127	HOME DEPOT CREDIT SERVICES	MONTHLY HARDWARE STMT - NOV 2015	\$787.60	\$787.60
159612	12/10/2015	20150803	TIMOTHY GRILLO	EXP REIMB: WEF NUTRIENT SPECIALTY CONF - SAN JOSE	\$783.00	\$783.00
159758	12/23/2015	2704304001	S & S SUPPLIES & SOLUTIONS	108 SAFETY GLASSES & 200 BRIEF RELIEF	\$771.10	\$771.10
159706	12/17/2015	35348	WECO INDUSTRIES LLC	2 CABLE TOWS & 2 CABLE ASSY	\$562.79	\$762.79
	12/17/2015	35373		TROUBLESHOOT OF OZIII CAMERA	\$200.00	
159788	12/30/2015	9283	CALERO HOLDINGS INC	VERASMART ANNUAL SUPPORT	\$761.73	\$761.73
159781	12/30/2015	7737	AMERICAN DISCOUNT SECURITY	DEC SECURITY GUARD SERVICES	\$759.00	\$759.00

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159805	12/30/2015	916905	GRANITE CONSTRUCTION COMPANY	9.99 TONS 1/2 HMA64-10R15	\$721.98	\$721.98
159650	12/17/2015	5129221	ALL INDUSTRIAL ELECTRIC SUPPLY	5 LED BULBS	\$237.77	\$721.62
	12/17/2015	5127826		2 BOYCE PS DISCONNECT SWITCHES	\$483.85	
159743	12/23/2015	99320	MCINERNEY & DILLON, P.C.	LEGAL SERVICES	\$180.00	\$720.00
	12/23/2015	99321		LEGAL SERVICES	\$540.00	
159745	12/23/2015	37461	METROMOBILE COMMUNICATIONS INC	1 EA MOTOROLA DESKTOP CHARGER FOR RADIO	\$107.90	\$690.65
	12/23/2015	151247		ANNUAL RADIO SERVICE - NOV 2015	\$582.75	
159824	12/30/2015	1228519	ROCHESTER MIDLAND CORPORATION	HOT WATER LOOP SERVICE	\$689.03	\$689.03
159592	12/10/2015	87896581211252015	AT&T	SERV: 10/18/15 - 11/17/15	\$677.25	\$677.25
159624	12/10/2015	24855009	MOTION INDUSTRIES INC	10 EA CENTRIFUGE AUTOLUBERS	\$655.25	\$655.25
159793	12/30/2015	36496	CLAREMONT BEHAVIORAL SERVICES	JAN 2016 EAP PREMIUM	\$639.40	\$639.40
159731	12/23/2015	9708	FREMONT EXPRESS COURIER SVC	COURIER SERVICES: NOV 2015 DAILY MAIL/3 BOARDMEMBER DELIVER	\$630.00	\$630.00
159634	12/10/2015	8200000008990	RED WING SHOE STORE	SAFETY SHOES - LU, HUGHES & NOEGEL	\$620.75	\$620.75
159809	12/30/2015	1027554	INDUSTRIAL SAFETY SUPPLY	ASTD CAL GAS FOR ELECTRICIANS	\$612.75	\$612.75
159645	12/10/2015	8043201477	VWR INTERNATIONAL LLC	3 PKS TUBE HYDROGEN SULPHIDE DET	\$233.11	\$587.06
	12/10/2015	8043201476		5 PKS SULFIDE REFILL	\$121.44	
	12/10/2015	8043208156		4 BOTTLE SQUARE LG W/M HDPE 4L	\$188.72	
	12/10/2015	8043210093		1 SULFURIC ACID 0.5N STD SOL 4L	\$43.79	
159688	12/17/2015	20151216	RIC PIPKIN	EXP REIMB: GIFT CARDS FOR TD STAFF	\$575.00	\$575.00

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159683	12/17/2015	11194891	CITY OF NEWARK	3 EA ENCROACHMENT PERMITS - NEWARK	\$570.00	\$570.00
159664	12/17/2015	260479	CURTIS & TOMPKINS, LTD	15 LAB SAMPLE ANALYSIS	\$230.00	\$545.00
	12/17/2015	260589		2 LAB SAMPLE ANALYSIS	\$315.00	
159687	12/17/2015	20151215	PETTY CASH	PETTY CASH REPLENISHMENT	\$534.49	\$534.49
159607	12/10/2015	1083743862	G&K SERVICES CO	ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$33.78	\$532.67
	12/10/2015	1083743861		UNIFORM LAUNDERING SERVICE	\$11.20	
	12/10/2015	1083743857		UNIFORM LAUNDERING SERVICE	\$89.56	
	12/10/2015	1083743856		UNIFORM LAUNDERING SERVICE	\$167.27	
	12/10/2015	1083743859		UNIFORM LAUNDERING SERVICE	\$16.96	
	12/10/2015	1083743860		UNIFORMS AND MATS	\$59.22	
	12/10/2015	1083743858		UNIFORM LAUNDERING SERVICE	\$32.15	
	12/10/2015	1083743855		UNIFORM LAUNDERING SERVICE	\$122.53	
159813	12/30/2015	20151215	LIEBERT CASSIDY WHITMORE	REGIS FEE: K. KING - ANNUAL PUBLIC SECTOR EMP LAW CONF	\$525.00	\$525.00

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159734	12/23/2015	1083747777	G&K SERVICES CO	UNIFORM LAUNDERING SERVICE	\$137.48	\$508.71
	12/23/2015	1083747784		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$33.78	
	12/23/2015	1083747778		UNIFORM LAUNDERING SERVICE	\$128.36	
	12/23/2015	1083747779		UNIFORM LAUNDERING SERVICE	\$89.56	
	12/23/2015	1083747783		UNIFORM LAUNDERING SERVICE	\$11.20	
	12/23/2015	1083747781		UNIFORM LAUNDERING SERVICE	\$16.96	
	12/23/2015	1083747780		UNIFORM LAUNDERING SERVICE	\$32.15	
	12/23/2015	1083747782		UNIFORMS & MATS	\$59.22	
159735	12/23/2015	20151222	GFOA-GOV FIN OFFICERS ASSOC	FEE FOR ANNUAL CAFR PROGRAM	\$505.00	\$505.00
159643	12/10/2015	3701.3702	US PIPE FABRICATION LLC	GLASSLINE FLANGED SPOOL	\$504.96	\$504.96
159589	12/10/2015	8144	ABOVE ALL PLUMBING, INC.	REFUND # 18581	\$500.00	\$500.00
159602	12/10/2015	8150	DRAIN DOCTOR	REFUND # 18583	\$500.00	\$500.00
159639	12/10/2015	8158	JERRY SCHULTZ	REFUND # 18580	\$500.00	\$500.00
159647	12/10/2015	7888	FANG CHENG YU	REFUND # 18582	\$500.00	\$500.00
159654	12/17/2015	8151	SRIKANTH AREKAPUDI	REFUND # 18596	\$500.00	\$500.00
159689	12/17/2015	7988	ABILITY ACCESS PLUMBING AND ROOTEI	REFUND # 18598	\$500.00	\$500.00
159699	12/17/2015	8143	STREAMLINE PLUMBING & DRAIN	REFUND # 18597	\$500.00	\$500.00
159741	12/23/2015	12135	LOOKINGPOINT INC	MONTHLY PREMIER SERVICE - DEC 2015	\$500.00	\$500.00
159753	12/23/2015	8168	PREFERRED PLUMBING & DRAIN SER	REFUND # 18610	\$500.00	\$500.00

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159757	12/23/2015	8152	ROOTER HERO	REFUND # 18609	\$500.00	\$500.00
159759	12/23/2015	8163	STAR ROOTER AND PLUMBING	REFUND # 18605	\$500.00	\$500.00
159680	12/17/2015	868247	MOBILE MODULAR MANAGEMENT CORP	FMC TRAILER RENTAL - DEC 2015	\$493.90	\$493.90
159729	12/23/2015	20151221	KATHRYN DESTAFNEY	EXP REIMB: BS WORK GROUP RECOGNITION	\$483.00	\$483.00
159803	12/30/2015	1083749730	G&K SERVICES CO	UNIFORM LAUNDERING SERVICE	\$16.98	\$472.72
	12/30/2015	1083749726		UNIFORM LAUNDERING SERVICE	\$128.98	
	12/30/2015	1083749727		UNIFORM LAUNDERING SERVICE	\$100.87	
	12/30/2015	1083749731		UNIFORMS & MATS	\$59.22	
	12/30/2015	1083749733		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$33.78	
	12/30/2015	1083749729		UNIFORM LAUNDERING SERVICE	\$32.15	
	12/30/2015	1083749728		UNIFORM LAUNDERING SERVICE	\$89.56	
	12/30/2015	1083749732		UNIFORM LAUNDERING SERVICE	\$11.20	
159625	12/10/2015	20151130	NAPA AUTO PARTS	MONTHLY AUTO PARTS STMT - NOV 2015	\$468.37	\$468.37
159746	12/23/2015	103296	MUNIQUEIP, LLC	1 EA COVER & O-RING	\$464.88	\$464.88
159773	12/23/2015	82491867	XEROX CORPORATION	MTHLY MAINTENANCE BASED ON USE	\$15.45	\$450.65
	12/23/2015	82416082		MTHLY MAINTENANCE BASED ON USE	\$334.59	
	12/23/2015	82491868		MTHLY MAINTENANCE BASED ON USE	\$13.86	
	12/23/2015	82416084		MTHLY MAINTENANCE BASED ON USE	\$86.75	

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159644	12/10/2015	32268	VALLEY OIL COMPANY	ASTD OIL & CREDIT		
	12/10/2015	32305		ASTD OIL	\$105.26	\$438.78
					\$333.52	
159719	12/23/2015	18488500	BECK'S SHOES	SAFETY SHOES: M. GRABOWSKI & A. DEJESUS		
					\$416.00	\$416.00
159718	12/23/2015	84669	BARNETT MEDICAL SERVICES LLC	100 LBS PHARMACEUTICAL WASTE REMOVAL		
	12/23/2015	84114		55 LBS PHARMACEUTICAL WASTE REMOVAL	\$164.00	\$413.00
	12/23/2015	84399		100 LBS PHARMACEUTICAL WASTE REMOVAL	\$85.00	
					\$164.00	
159595	12/10/2015	11014340	BLAISDELL'S	1 WALL CALENDAR		
	12/10/2015	11013431		ASTD OFFICE SUPPLIES	\$12.78	\$408.58
	12/10/2015	11013430		ASTD OFFICE SUPPLIES	\$20.89	
					\$374.91	
159713	12/23/2015	5120856	ALPHA ANALYTICAL LABORATORIES	18 LAB SAMPLE ANALYSIS		
					\$405.00	\$405.00
159808	12/30/2015	295672827	IDEXX DISTRIBUTION INC	20-PACK ENTEROLERT		
					\$396.55	\$396.55
159709	12/23/2015	9046028965	AIRGAS NCN	ASTD PARTS & MATERIALS		
					\$377.48	\$377.48
159748	12/23/2015	20151217	PAMELA NI	SEWER SERVICE CHARGE REFUND		
					\$377.00	\$377.00
159656	12/17/2015	RBAH30DFE	BAHIA RESORT HOTEL	TRAINING LODGING - V. PADILLA		
					\$372.54	\$372.54
159604	12/10/2015	8645	EAST BAY MUNI UTILITY DISTRICT	8 LAB SAMPLE ANALYSIS		
					\$370.70	\$370.70

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159669	12/17/2015	1083745815	G&K SERVICES CO	UNIFORM LAUNDERING SERVICE	\$11.20	\$368.88
	12/17/2015	1083745811		UNIFORM LAUNDERING SERVICE	\$89.56	
	12/17/2015	1083745809		UNIFORM LAUNDERING SERVICE	\$25.14	
	12/17/2015	1083745813		UNIFORM LAUNDERING SERVICE	\$16.96	
	12/17/2015	1083745814		UNIFORMS & MATS	\$59.22	
	12/17/2015	1083745816		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$33.78	
	12/17/2015	1083745812		UNIFORM LAUNDERING SERVICE	\$32.15	
	12/17/2015	1083745810		UNIFORM LAUNDERING SERVICE	\$100.87	
159779	12/30/2015	2900852584	ALL AMERICA FLAG CO	2 US & 2 CA FLAGS	\$366.04	\$366.04
159676	12/17/2015	958063	INTERNATIONAL PAINT LLC	ASTD PAINT SUPPLIES	\$355.25	\$355.25
159832	12/30/2015	8043339103	VWR INTERNATIONAL LLC	1 SODA ASH DENSE 50LB BAG	\$82.20	\$333.03
	12/30/2015	8043336784		1 FERROUS SULFATE ANHYD 500GM	\$39.06	
	12/30/2015	8043343663		ASTD LAB SUPPLIES	\$211.77	
159606	12/10/2015	116523857	FREMONT URGENT CARE CENTER	3 VACCINES/1 NEW HIRE PHYSICAL	\$328.00	\$328.00
159802	12/30/2015	116524006	FREMONT URGENT CARE CENTER	2 CAVINES/2 DOT PHYSICALS	\$268.00	\$325.00
	12/30/2015	171924007		1 DOT PHYSICAL	\$57.00	
159707	12/17/2015	20151214	WESTERN STATES PROJECT	INTRO ENVIRONMENTAL ENFORCEMENT: PADILLA	\$300.00	\$300.00
159747	12/23/2015	11208	NASSCO, INC.	2016 PUBLIC AGENCY MEMBERSHIP DUES	\$295.00	\$295.00
159762	12/23/2015	6457	TURNER RISK CONSULTING INC	FALL PROTECTION TRAINING - TATOLA	\$275.00	\$275.00

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159752	12/23/2015	112410	PREFERRED ALLIANCE INC	NOVEMBER 2015 SERVICE FEE	\$273.00	\$273.00
159720	12/23/2015	20151222	AL BUNYI	REIMB: ASCE ANNUAL DUES	\$265.00	\$265.00
159780	12/30/2015	5130018	ALL INDUSTRIAL ELECTRIC SUPPLY	6 HELEN LAMP VERTICAL LONG 13W	\$264.00	\$264.00
159801	12/30/2015	1113102	FASTENAL	ASTD PARTS & MATERIALS	\$258.06	\$258.06
159768	12/23/2015	8043294725	VWR INTERNATIONAL LLC	3 PKS TUBE HYDROGEN SULFIDE DET	\$233.14	\$233.14
159723	12/23/2015	20151217	RAYMOND CHAU	EXP REIMB: CIP TEAM 2015 RECOGNITON	\$232.90	\$232.90
159744	12/23/2015	45689829	MCMaster SUPPLY INC	ASTD PARTS & MATERIALS	\$75.32	\$222.65
	12/23/2015	45819785		2 EA RECHARGEABLE SEALED LEAD-ACID BATTERIES	\$64.10	
	12/23/2015	44454052		20 EA COUPLINGS	\$61.07	
	12/23/2015	45819786		10 E POLYPROPYLENE LOOP CLAMPS	\$22.16	
159633	12/10/2015	20151203.1	MICHELLE POWELL	EXP REIMB: VARIOUS MILEAGE	\$20.29	\$219.99
	12/10/2015	20151203.2		EXP REIMB:CASA CONFERENCE HOTEL DEPOSIT	\$199.70	
159697	12/17/2015	20151201	SPOK INC	DECEMBER 2015 PAGER SERVICE	\$217.97	\$217.97
159608	12/10/2015	1182532200	GLACIER ICE COMPANY INC	150 7-LB BAGS OF ICE	\$208.50	\$208.50
159785	12/30/2015	18540900	BECK'S SHOES	SAFETY SHOES - R. CULBERTSON	\$208.00	\$208.00
159614	12/10/2015	317734	HARRINGTON INDUSTRIAL PLASTICS	1 EA FLOWMETER	\$201.48	\$201.48
159770	12/23/2015	35536	WECO INDUSTRIES LLC	TROUBLESHOOT OF OZIII CAMERA	\$200.00	\$200.00
159760	12/23/2015	20151221	ARIEL TEIXEIRA	EXP REIMB: IAC LUNCH MEETING	\$199.00	\$199.00
159657	12/17/2015	333791	BAY AREA BARRICADE SERVICE INC	4 CS MARKING PAINT	\$189.20	\$189.20

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159756	12/23/2015	1690000010517	RED WING SHOE STORE	SAFETY SHOES - COSTELLO		
					\$186.99	\$186.99
159797	12/30/2015	260868	CURTIS & TOMPKINS, LTD	10 LAB SAMPLE ANALYSIS		
					\$165.00	\$185.00
	12/30/2015	260863		1 LAB SAMPLE ANALYSIS		
					\$20.00	
159724	12/23/2015	409411	CHEMETRICS INC	5 FORMALDEHYDE REFILL & NITRITE AMPULES		
					\$184.35	\$184.35
159678	12/17/2015	20151217	MARCO LOPEZ	EXP REIMB: CWEA RENEWAL		
					\$165.00	\$165.00
159816	12/30/2015	106378	MUNICIPAL MAINT EQUIPMENT INC	3 YARDS E-11 0.18" BULK CHAIN FOR 10.060 CHAIN		
					\$144.36	\$144.36
159671	12/17/2015	79644	GORILLA METALS	ASTD METAL, STEEL, STAINLESS, AND ALUMINUM		
					\$102.72	\$142.07
	12/17/2015	79648		ASTD METAL, STEEL, STAINLESS, AND ALUMINUM		
					\$39.35	
159673	12/17/2015	1133743	GROENIGER AND COMPANY	ASTD PARTS & MATERIALS		
					\$138.60	\$138.60
159695	12/17/2015	20151214	KRISTINA SILVA	PROJ 467 PROGRESS MEETING LUNCH		
					\$116.96	\$136.53
	12/17/2015	20151217		EXP REIMB: CIP RECOGNITION PARTY		
					\$19.57	
159691	12/17/2015	284187	RKI INSTRUMENTS INC	1 SENSOR, OXYGEN, OS-B3		
					\$132.00	\$132.00
159732	12/23/2015	17798	FREMONT RECYCLING & TRANSFER	1.42 TON GREEN WASTE		
					\$128.92	\$128.92
159786	12/30/2015	11042660	BLAISDELL'S	ASTD OFFICE SUPPLIES		
					\$106.55	\$126.42
	12/30/2015	11035050		ASTD OFFICE SUPPLIES		
					\$19.87	
159640	12/10/2015	886170541	SHARP BUSINESS SYSTEMS	MTHLY MAINTENANCE BASED ON USE		
					\$115.88	\$115.88

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159659	12/17/2015	11022600	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$43.38	\$113.98
	12/17/2015	11017970		ASTD OFFICE SUPPLIES	\$9.44	
	12/17/2015	11017971		ASTD OFFICE SUPPLIES	\$22.42	
	12/17/2015	11020050		ASTD OFFICE SUPPLIES	\$38.74	
159618	12/10/2015	295135812	IDEXX DISTRIBUTION INC	Sim Plates pack of 25	\$110.88	\$110.88
159665	12/17/2015	20151216	RICHARD CZAPKAY	EXP REIMB: ROCOGNITION MEAL - NIGHT CREW	\$107.88	\$107.88
159610	12/10/2015	79571	GORILLA METALS	ASTD METAL, STEEL, STAINLESS, AND ALUMINUM	\$106.91	\$106.91
159778	12/30/2015	2449	ALL ABOUT BACKFLOW	BACKFLOW PREVENTION TEST	\$102.00	\$102.00
159795	12/30/2015	5297	COMMON GROUND ALLIANCE	MEMBERSHIP DUES: S. NESGIS	\$100.00	\$100.00
159733	12/23/2015	20151217	ROSLYN FULLER	EXP REIMB: HOLIDAY POTLUCK SUPPLIES	\$99.98	\$99.98
159777	12/30/2015	1355	ALAMEDA COUNTY TREASURER	33 ASSESSOR'S MAPS	\$99.00	\$99.00
159635	12/10/2015	77233	REMOTE SATELLITE SYSTEMS INT'L	IRIDIUM SVC FEE DECEMBER 2015	\$97.90	\$97.90
159822	12/30/2015	77830	REMOTE SATELLITE SYSTEMS INT'L	IRIDIUM SVC FEE JANUARY 2016	\$97.90	\$97.90
159715	12/23/2015	1739155	ANALYSTS, INC.	4 LAB SAMPLE ANALYSIS	\$88.20	\$88.20
159700	12/17/2015	20151214	EDWARD TATOLA	EXP REIMB: CWEA MT-2 RENEWAL FEE	\$86.00	\$86.00
159696	12/17/2015	20151216	THOMAS SOLARI	EXP REIMB: MILEAGE FOR CALL OUT	\$69.56	\$69.56
159828	12/30/2015	20151229	THOMAS SOLARI	EXP REIMB: MILEAGE FOR CALL OUT	\$69.56	\$69.56
159792	12/30/2015	448722	CENTERVILLE SAW AND TOOL	ASTD PARTS & MATERIALS	\$69.43	\$69.43
159790	12/30/2015	137549	STATE OF CALIFORNIA	2 NEW HIRE FINGERPRINTS	\$64.00	\$64.00

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159668	12/17/2015	20151215	ROSLYN FULLER	EXP REIMB: HOLIDAY POTLUCK SUPPLIES	\$63.84	\$63.84
159775	12/30/2015	64445	AIR & TOOL ENGINEERING COMPANY	ASTD PARTS & MATERIALS	\$61.23	\$61.23
159799	12/30/2015	615320151218	DISH NETWORK	JAN 2016 - SERVICE FEE	\$50.90	\$50.90
159648	12/17/2015	20151217	ALAMEDA COUNTY TREASURER	PINE STREET EASEMENT	\$50.00	\$50.00
159817	12/30/2015	20151228	SHAWN NESGIS	EXP REIMB: GIFT GARDS FOR SAFETY RECOG - DECEMBER	\$50.00	\$50.00
159642	12/10/2015	9853465.0	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 11/14/15	\$47.85	\$47.85
159651	12/17/2015	12306	ALLIED FLUID PRODUCTS CORP	1 40A DOMESTIC ALUMINUM CAMLOCK	\$45.94	\$45.94
159712	12/23/2015	12332	ALLIED FLUID PRODUCTS CORP	1 40A DOMESTIC ALUMINUM CAMLOCK	\$45.94	\$45.94
159616	12/10/2015	601857033	HILLYARD/SAN FRANCISCO	2 EA JET PROMAC 11001	\$42.77	\$42.77
159710	12/23/2015	4047286120151203	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 12/03/15 - PASEO PADRE	\$41.54	\$41.54
159766	12/23/2015	9756397973	VERIZON WIRELESS	WIRELESS SERV 11/02/15-12/01/15	\$38.76	\$38.76
159742	12/23/2015	7791584	MATHESON TRI-GAS INC	MONTHLY CYLINDER RENTAL - NOV 2015	\$34.35	\$34.35
159711	12/23/2015	5129632	ALL INDUSTRIAL ELECTRIC SUPPLY	1 INT-MAT K4500 SHORTING CAP	\$5.16	\$5.16

Invoices:

Credit Memos :	4	-1,678.83
\$0 - \$1,000 :	283	73,577.04
\$1,000 - \$10,000 :	119	383,271.73
\$10,000 - \$100,000 :	22	533,550.90
Over \$100,000 :	2	315,324.95
Total:	430	1,304,045.79

Checks:

\$0 - \$1,000 :	131	50,554.32
\$1,000 - \$10,000 :	92	348,886.41
\$10,000 - \$100,000 :	22	589,280.11
Over \$100,000 :	2	315,324.95
Total:	247	1,304,045.79



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

DATE: January 5, 2016

MEMO TO: Board of Directors - Union Sanitary District

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

SUBJECT: Agenda Item No. 12b - Meeting of January 11, 2016
Information Item: Presentation for the 218 Informational Meeting

Recommendation

Information Only

Background

The District is proposing rate increases over the next five years to cover rising costs associated with providing service and maintaining aging infrastructure. The district recently mailed notices of a January 25, 2016 public hearing on the proposed rate changes to all property owners in Fremont, Newark and Union City.

In conjunction with this proposed rate increase, the District is hosting an informational meeting to give customers the opportunity to talk with staff members and ask questions about proposed rate increases and services USD provides to Fremont, Newark, and Union City. It will be held from 6 p.m. to 8 p.m. on Tuesday, January 12, 2016 at the Fremont Main Library, 2400 Stevenson Blvd., in Fremont. All members of USD's Tri-City service area are invited to attend.

Attached to this staff report is a PowerPoint presentation that provides an overview of the services provided, expenditures, and capital improvement program of the District. This

presentation is a culmination and refinement of previous presentations to various stakeholders. This item is intended as an informational item to provide the Board the opportunity to review the presentation prior to the public informational meeting.

Attachments:

PowerPoint Presentation



Union Sanitary District

Informational Meeting January 12, 2016



Service Area and Directors

Manny Fernandez

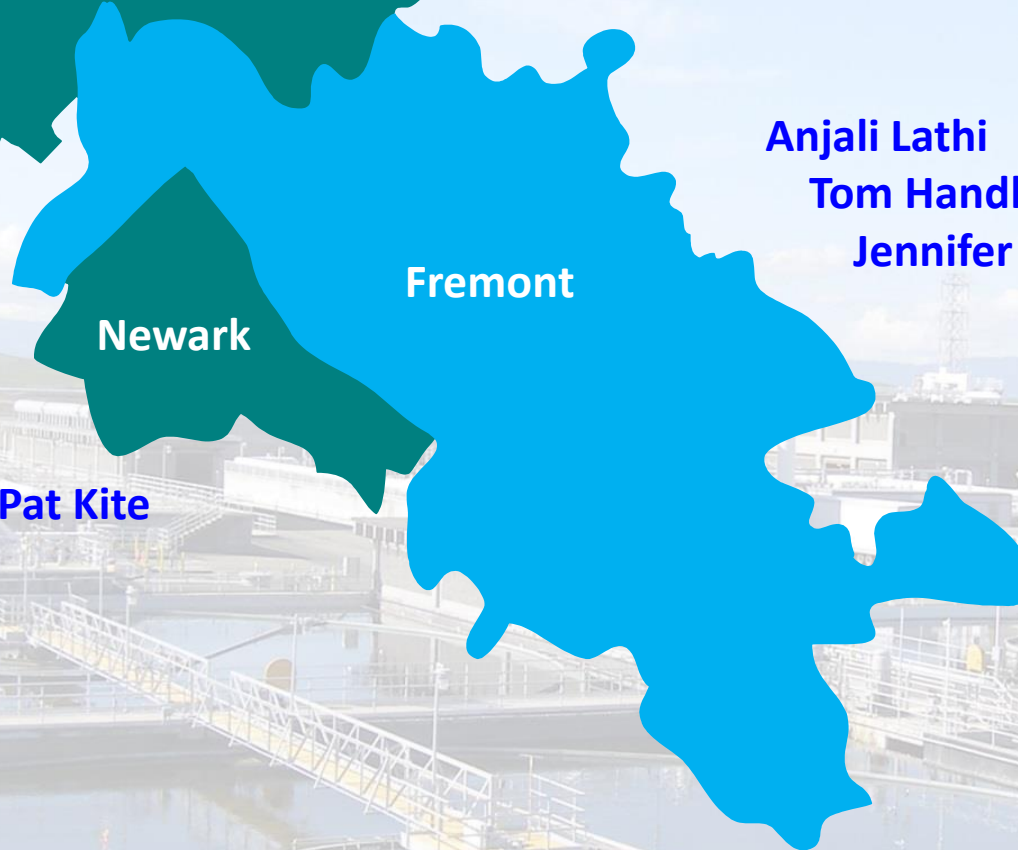


Union City



Newark

Pat Kite



Fremont

**Anjali Lathi
Tom Handley
Jennifer Toy**

A map of the San Francisco Bay Area, showing major highways, cities, and parks. A blue oval highlights the area around Fremont, Newark, and Union City. The map includes labels for cities like Alameda, San Leandro, Hayward, San Mateo, Foster City, Belmont, San Carlos, Redwood City, Menlo Park, Palo Alto, San Ramon, Dublin, and Pleasanton. 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A map of the San Francisco Bay Area, showing major highways and parks. A blue oval highlights the area around Fremont, Newark, and Union City, which is the focus of the text. The map includes labels for various cities and towns, as well as parks and natural areas. Key highways shown include I-580, I-680, I-880, I-805, and I-80. Parks and natural areas include Alameda Island, Alameda, Fruitvale, Redwood Heights, Knowland State Arboretum and Park, Bishop Ranch Regional Open Space, San Ramon Central Park, Castro Valley, San Lorenzo, Fairview, Pleasanton Ridge Regional Park, Sunol, Mission Peak Regional Preserve, Fremont Central Park, Newark, Union City, Coyote Hills Regional Park, Eden Landing Ecological Reserve, San Mateo, Foster City, Redwood Shores, Belmont, San Carlos, Redwood City, North Fair Oaks, East Palo Alto, Menlo Park, Palo Alto, and Lucy Evans Baylands Nature Interpretive Center. The map also shows the San Francisco Bay, San Mateo Bridge, and various other roads and landmarks.

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USD Services



Looking East toward Union City

Core Services Provided by USD

- Responsible for operating, maintaining, and replacing assets worth more than \$650.9 million
- On average, collects 22 - 24 million gallons of sewage daily from homes, businesses and industries in the Tri-Cities area – this equates to over 8 Billion gallons per year
- Treats sewage to stringent state and federal standards required to protect public health
- Inspects, cleans, maintains, and repairs over 811 miles of pipeline & 16,015 manholes, operates 7 pump stations
 - Operates a state-certified on-site laboratory, sampling and testing wastewater to ensure compliance with water quality standards



Core Services Provided by USD

- Provides engineering services and project management for Capital Improvement Projects, ranging on average between \$10 - \$20 million per year of Pipeline, Pumping, and Treatment Plant Projects
- Responds to customer calls and investigates problems or complaints
- Monitors and regulates Tri-City Businesses and industries to restrict contaminants and protect San Francisco Bay and Alameda Creek
- Reviews plans, inspects construction, and issues permits to ensure sewers are installed correctly
- Maintains a fleet of over 100 vehicles



USD Statistics

Solar and cogeneration facilities have produced energy savings of \$2,906,977

- Solar generated 4.554 Mwh to date
- Cogeneration generated 17,226.5 Mwh to date

Use 365 million gallons of recycled water at our plant annually in lieu of potable water

Treat & recycle approx. 20,000 tons of biosolids annually from the Tri-Cities

Have 137 employees working in the Tri-City Area

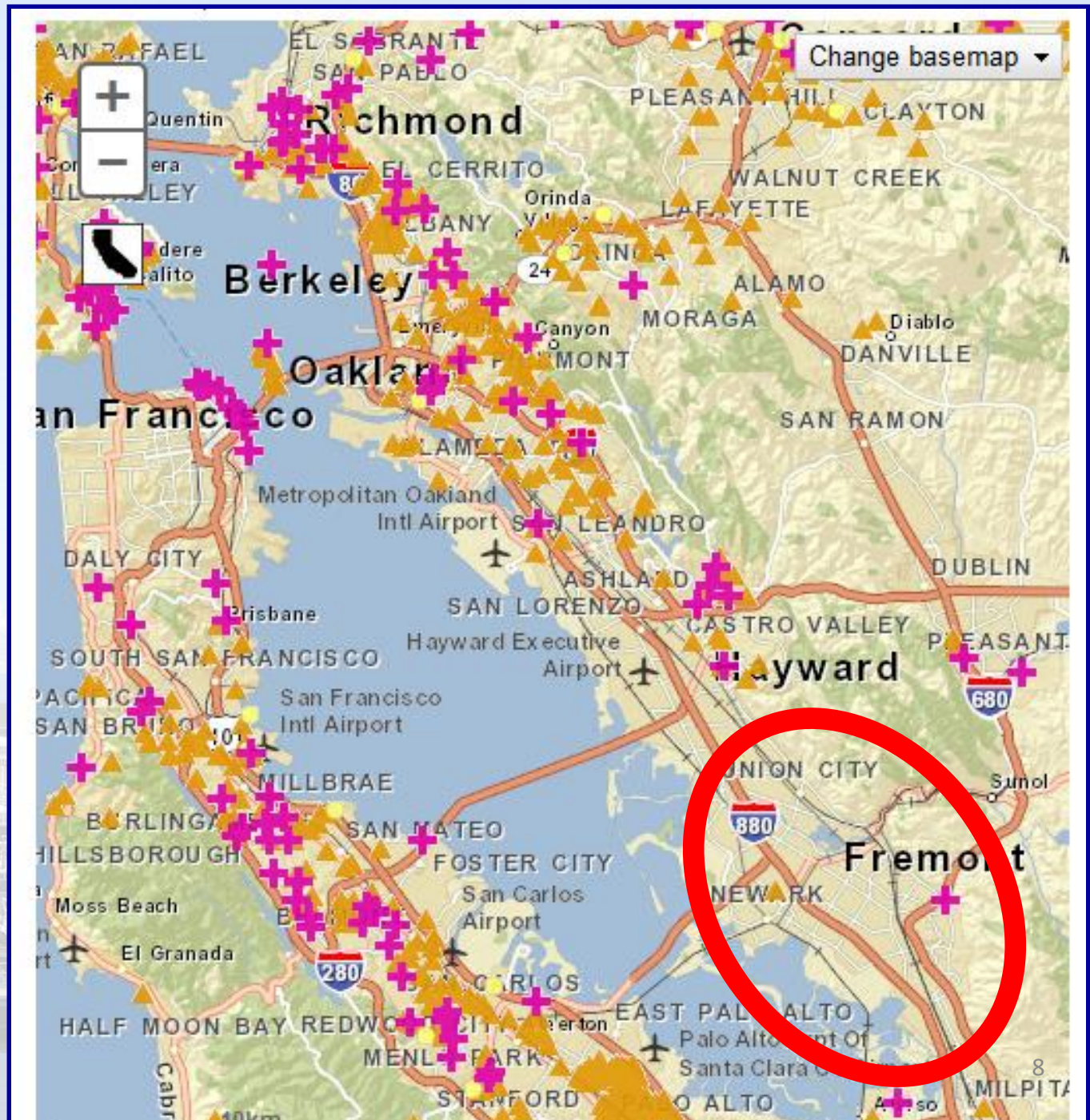
97.5% of customer callouts receive response within one hour



**Certified Green
Business since 2009**

Collection System Overflows

USD's spill record is one of the best in CA



USD's Outreach Programs:

The District conducts extensive public outreach programs, including:

- Classroom presentations to educate children about conserving water and protecting the Bay; plant tours for schools, businesses, and interested public groups (52 tours FY10 – FY15)



- Educating residential and commercial customers about keeping Fats, Oils and Grease (FOG) out of sewers



- Partnering with Tri-City dentists to keep mercury out of the waste stream
- Providing information about less-toxic pest management to protect creeks and the Bay

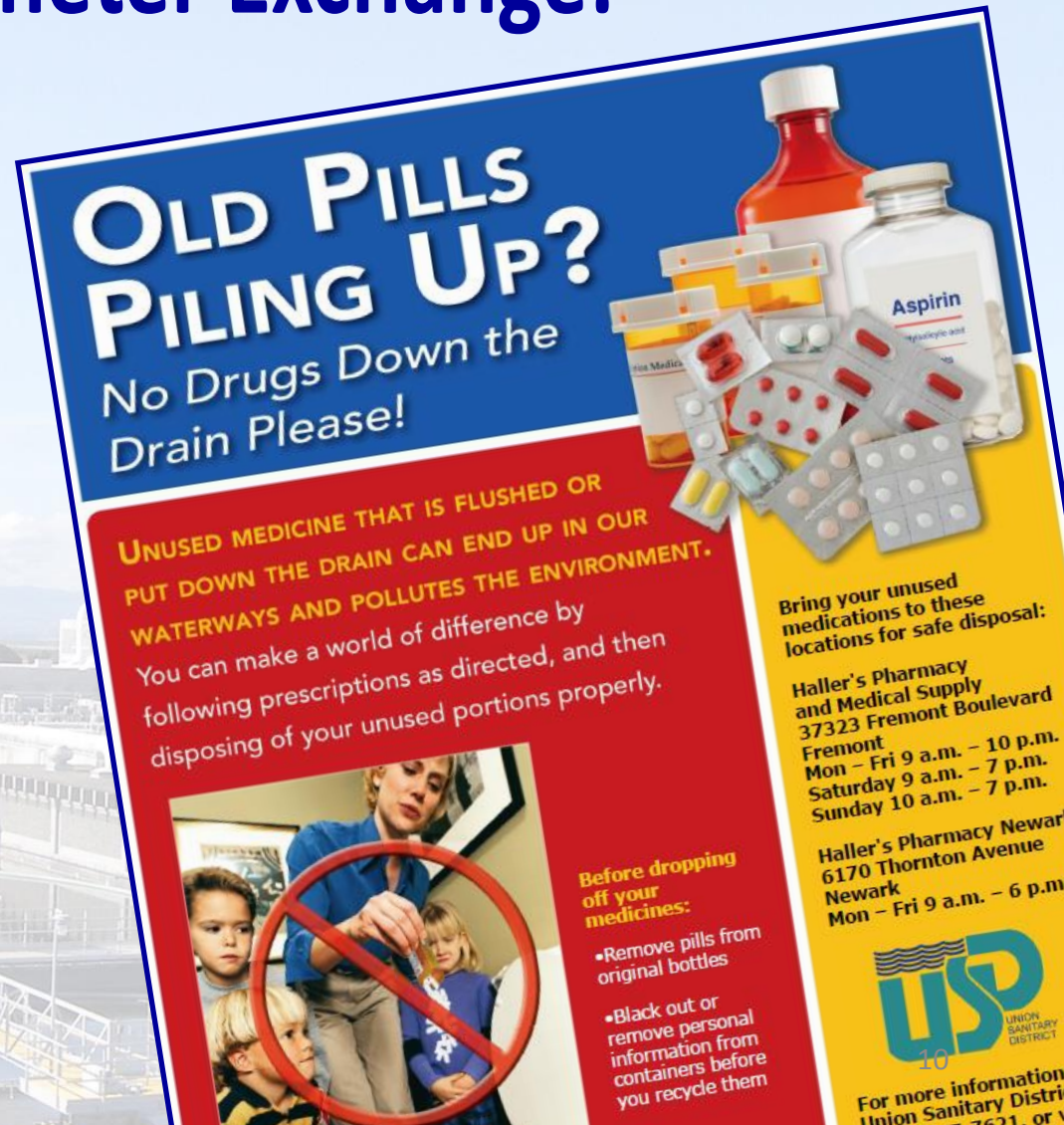
Pharmaceutical Take-Back & Thermometer Exchange:

Operating since 2009

Seven permanent locations

Over 8,000 pounds of
medicines have been collected
& destroyed

Over 1,000 mercury
thermometers have been
collected by USD in exchange
for mercury-free devices



OLD PILLS PILING UP?

No Drugs Down the
Drain Please!

UNUSED MEDICINE THAT IS FLUSHED OR
PUT DOWN THE DRAIN CAN END UP IN OUR
WATERWAYS AND POLLUTES THE ENVIRONMENT.
You can make a world of difference by
following prescriptions as directed, and then
disposing of your unused portions properly.

Bring your unused
medications to these
locations for safe disposal:

Haller's Pharmacy
and Medical Supply
37323 Fremont Boulevard
Fremont
Mon - Fri 9 a.m. - 10 p.m.
Saturday 9 a.m. - 7 p.m.
Sunday 10 a.m. - 7 p.m.

Haller's Pharmacy Newark
6170 Thornton Avenue
Newark
Mon - Fri 9 a.m. - 6 p.m.

Before dropping
off your
medicines:

- Remove pills from
original bottles
- Black out or
remove personal
information from
containers before
you recycle them

For more information
Union Sanitary District
3621 or

USD – Your Award-Winning Sanitary District



- Certificate of Achievement for Excellence in Financial Reporting - received annually since FY 2004

- CWEA Collection System Worker of the Year 2013

- USD has been recognized by NACWA for Outstanding Performance 21 Consecutive Years



- CASA Public Outreach Program of the Year 2015

- NACWA Excellence in Management Program Gold Certificate 2015

- CSDA Innovative Program of the Year 2015

- CWEA Engineering Achievement Award 2014

- Award of Achievement for Excellence in Procurement - received annually since 2007



USD Fees

Capacity Fees

Paid by: New Customers/Developers

Capacity Fees pay for:

New Pipelines

New/Larger Pumps

Expanded Treatment Process

Preservation of Existing Capacity

Sewer Service Charges

Paid by: Existing Customers

Sewer Service Charges pay for:

District Operations

Maintenance

Replacement of Existing Equipment

Repair & Replacement of Aging Infrastructure



Why Are USD's Rates Increasing?

- Prior to 2004, USD had not increased rates since 1997
 - Used reserves to fund capital improvements
 - Significantly depleted this critical account
- Aging infrastructure
 - Many of the District's facilities were built in the late 1970's
 - Increased maintenance
 - Increase in construction projects
- Cost of chemicals and energy
- Cost of salary and benefits
 - Rising health care costs
- Cost of compliance with regulations
 - State and local, including annual permit fees

How Much Will The Proposed Increase Be?

PROPOSED ANNUAL SEWER SERVICE RATES JULY 2016 – JUNE 2021

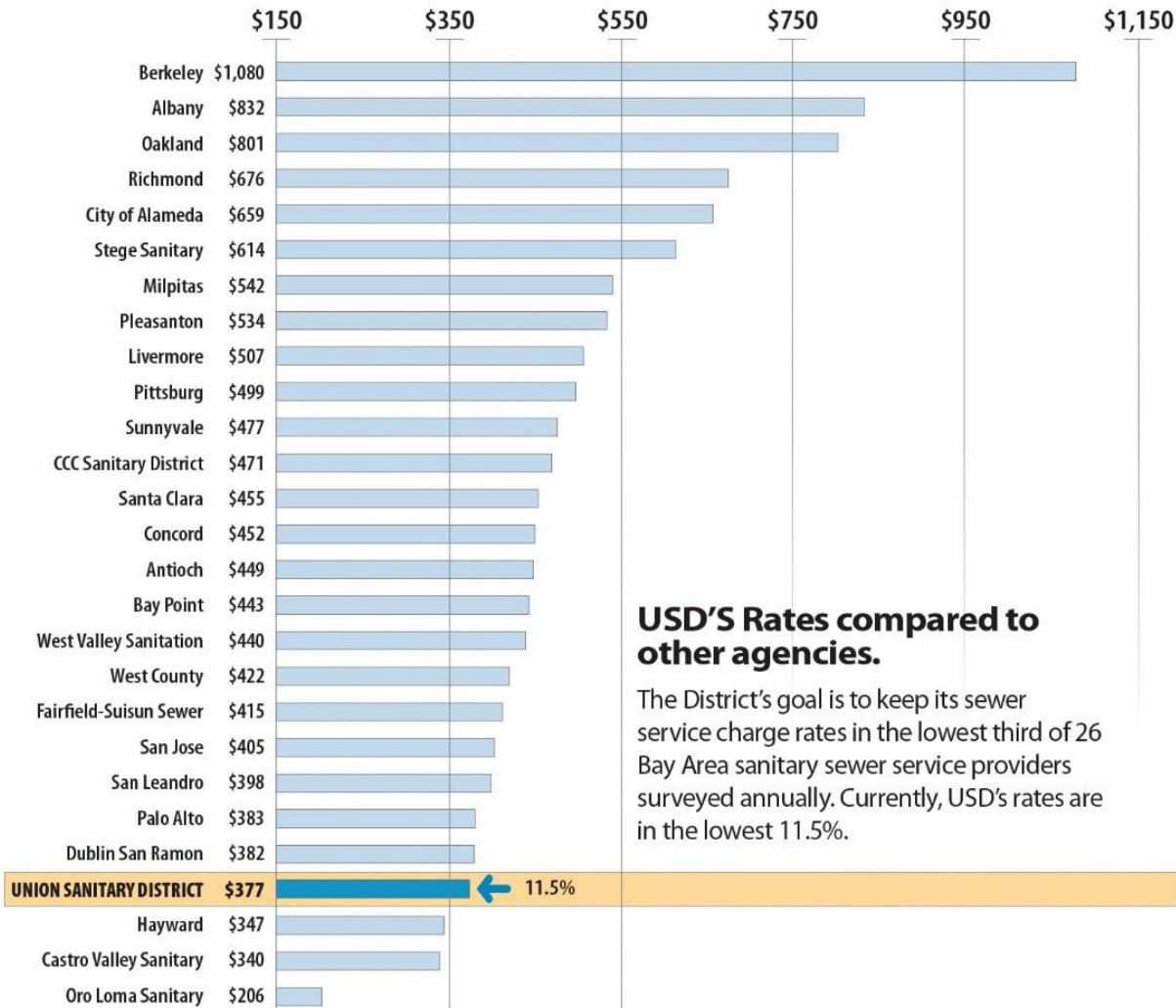
	Current Rates FY2016	Proposed Rate FY17	Difference from previous year (\$)		Proposed Rate FY18	Difference from previous year (\$)		Proposed Rate FY19	Difference from previous year (\$)		Proposed Rate FY20	Difference from previous year (\$)		Proposed Rate FY21	Difference from previous year (\$)
Residential (\$/Dwelling Unit)															
Single Family Residences	\$377.00	\$380.05	\$3.05		\$393.35	\$13.30		\$407.12	\$13.77		\$421.37	\$14.25		\$436.12	\$14.75
Multiple Family Residences*	\$326.00	\$329.50	\$3.50		\$341.03	\$11.53		\$352.97	\$11.94		\$365.32	\$12.35		\$378.11	\$12.79
Commercial (\$/1,000 gals)															
Strong	\$7.90	\$9.59	\$1.69		\$9.93	\$0.34		\$10.28	\$0.35		\$10.64	\$0.36		\$11.01	\$0.37
Moderate	\$4.26	\$4.74	\$0.48		\$4.90	\$0.16		\$5.07	\$0.17		\$5.25	\$0.18		\$5.43	\$0.18
Weak	\$3.73	\$3.95	\$0.22		\$4.08	\$0.13		\$4.23	\$0.15		\$4.37	\$0.14		\$4.53	\$0.16
Fast-Food Restaurant	\$7.55	\$8.97	\$1.42		\$9.29	\$0.32		\$9.61	\$0.32		\$9.95	\$0.34		\$10.30	\$0.35
Full-Service Restaurant	\$9.65	\$11.89	\$2.24		\$12.30	\$0.41		\$12.73	\$0.43		\$13.18	\$0.45		\$13.64	\$0.46
Industrial															
Volume (\$/1,000 gals)	\$2.37	\$2.23	\$-0.14		\$2.31	\$0.08		\$2.39	\$0.08		\$2.48	\$0.09		\$2.56	\$0.08
COD (\$/1,000 lbs)	\$240.51	\$296.05	\$55.54		\$306.41	\$10.36		\$317.14	\$10.73		\$328.24	\$11.10		\$339.72	\$11.48
Suspended Solids (\$/1,000 lbs)	\$440.95	\$688.62	\$247.67		\$712.72	\$24.10		\$737.66	\$24.94		\$763.48	\$25.82		\$790.20	\$26.72
Minimum Charge for non-residential customers		\$326.00	\$329.50	\$3.50	\$341.03	\$11.53		\$352.97	\$11.94		\$365.32	\$12.35		\$378.11	\$12.79

* Examples of multiple family residential dwelling units include condominiums, townhomes and apartments

All rates are rounded to the nearest cent.

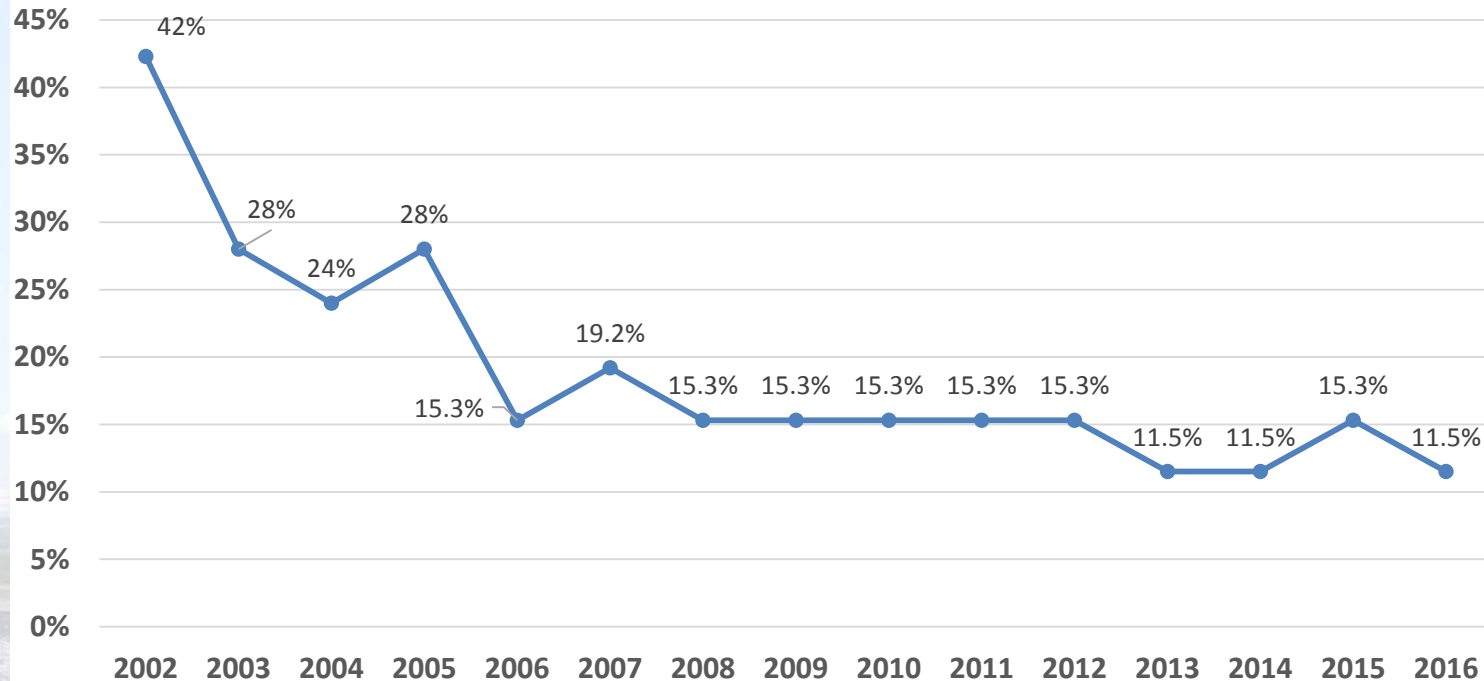
Rate Comparison

BAY AREA ANNUAL SEWER SERVICE CHARGES 2015–2016



Rate Comparison

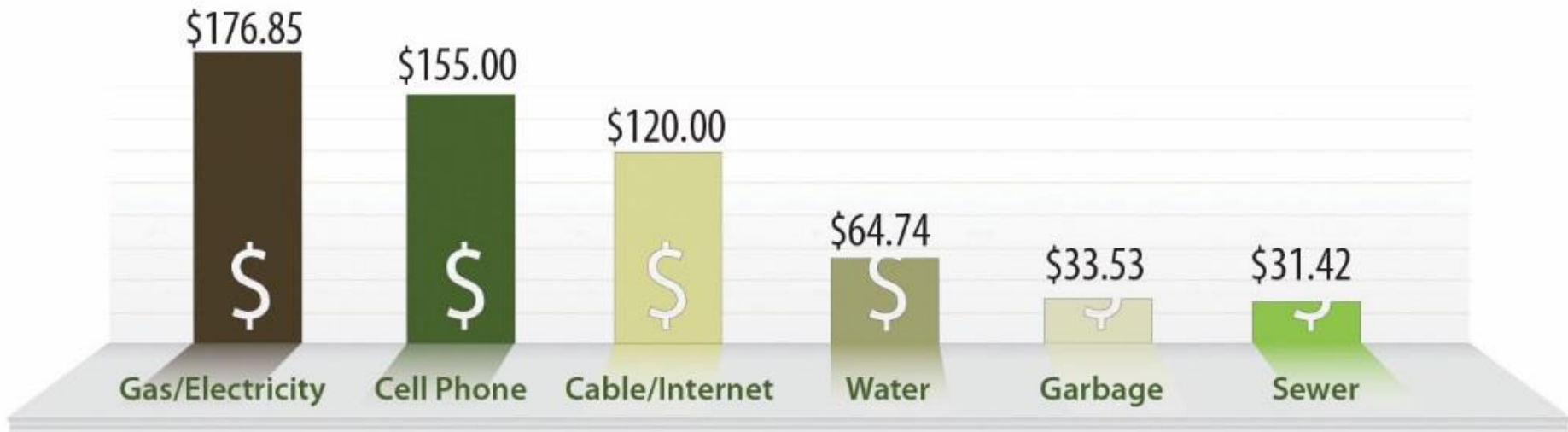
USD SSC PERCENTILE OF 26 SURVEYED AGENCIES



It is the District's goal to remain in the lower 1/3 of agencies surveyed, meaning USD's prices would be lower than 2/3 of neighboring agencies. Currently the District's rates are in the 11th percentile.

Utility Comparison

Compared to other utilities and services, USD's rates are very low:



Sewer Rate shown is USD's FY 2016 single-family residential rate (July 1, 2015 - June 30, 2016)

Other monthly utility rates are based on a typical residential household and were obtained from service providers in August 2015 where possible. Gas and Electricity rate is based on an annual average for a 1,500 sq. ft. home in USD's service area. Cell phone monthly bill is based on a typical calling plan for a family of four.

Property Tax Bill

2015-2016

For Fiscal Year Beginning July 1, 2015 and Ending June 30, 2016



ALAMEDA COUNTY



SECURED PROPERTY TAX STATEMENT

Donald R. White, Treasurer and Tax Collector

1221 Oak Street

Oakland, California 94612-4285

Parcel Number	Tracer Number	Tax-Rate Area	Special Handling

Tax-Rate Breakdown		
Taxing Agency	Tax Rate	Tax Amount
VOTER APPROVED DEBT SERVICE :		
CITY OF FREMONT	.0071%	6.88
SCHOOL UNIFIED	.0764%	74.32
SCHOOL COMM COLL	.0424%	41.24
WASHINGTON TWP HOSP	.0313%	30.45
BAY AREA RAPID TRANSIT	.0026%	2.53
EAST BAY REGIONAL PARK	.0067%	6.52
ALAMEDA CO WATER	.0075%	7.30

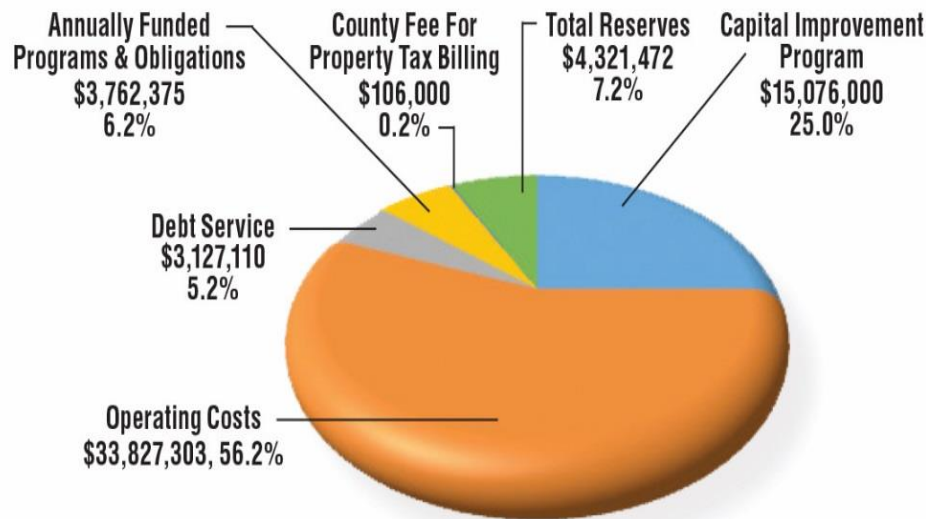
Fixed Charges and/or Special Assessments		
Description	Phone	Amount
UNION SEWER SVC	(510)477-7626	377.00
MOSQUITO ABATEMENT	(800)273-5167	1.74
CSA PARAMEDIC	(800)441-8280	29.78
PARAMEDIC SUPPLMNT	(510)494-4295	15.00
MEASURE K SCH TAX	(866)807-6864	53.00
FLOOD BENEFIT 5	(510)670-5762	26.60
HAZ WASTE PROGRAM	(877)786-7927	9.54
ALAMEDA VECTOR FR	(800)273-5167	10.00
MOSQUITO ASSESS 2	(800)273-5167	2.50
EAST BAY TRAIL LLD	(800)676-7516	5.44
CLEAN WATER FEE	(510)494-4570	13.50
Total Fixed Charges and/or Special Assessments		544.10

Tax Computation Worksheet			
Description	Full Valuation	x Tax Rate	= Tax Amount

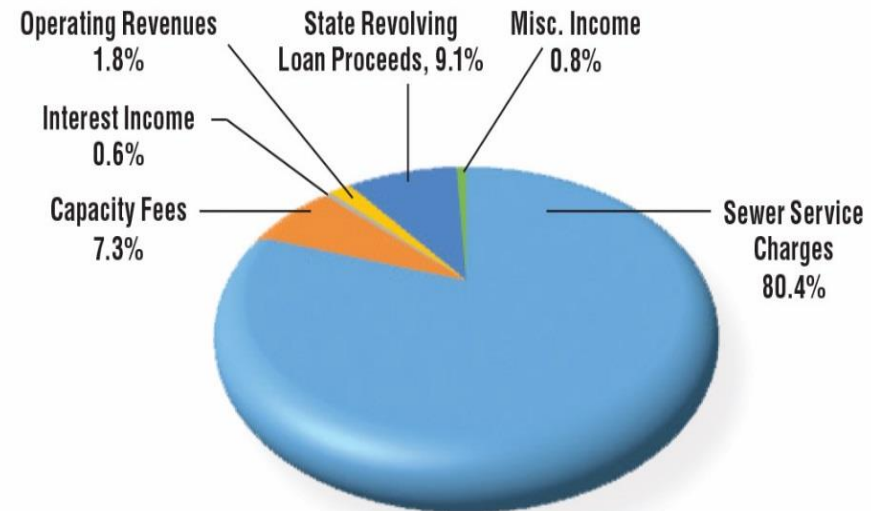
USD Expenditures and Revenues

FY 2016 BUDGET (July 1, 2015 through June 30, 2016)

Total Expenditures – \$60,220,260



Total Revenues & Proceeds – \$60,220,260



- Annually Funded Programs and Obligations include special studies and equipment replacement
- Operating Costs include employee, utilities, chemicals, maintenance and administrative costs
- Capital Improvement Program includes project construction and related costs

USD's Capital Improvement Planning

- The District plans 10 years in advance for capital projects and needs, however, these capital expenditures are evaluated on an annual basis
- Currently Planned Projects
 - 18 Collection System & Administrative Facilities
 - 10 Pump Station
 - 41 Treatment Plant
- Currently, Capital expenditures for FY 2016 are anticipated to total \$15.08 million and average approximately \$20 million annually after that through FY 2021

Major Projects for 2016

**Alvarado-Niles Blvd.
Trunk Sewer Lining**

**Fremont Blvd. and Paseo
Padre Pkwy. Lift Station
replacement**

**Thickener
Control
Building
Improvements
Project**



Emergency Reserve Fund

Goal: Build a \$5,000,000 Fund to be available to initiate projects in the event of an emergency. Allows USD to mobilize quickly to protect public health and safety

Cost: Contribute \$750,000 annually until \$5 million balance achieved



What USD Does to Reduce Costs

- On average, generates approximately 2 Megawatts of electricity per day from cogeneration and solar facilities
- Uses 1 million gallons of recycled water daily
- Participates in Statewide Medical and Insurance Pools
- Participates in Regional Chemical Consortium
- Obtains project financing at very low, below-market rates
- Implements technology to improve efficiency and help maintain conservative staffing levels
- Implements Preventative Maintenance Program for pipelines and equipment to extend useful life
- Labor contract in 2013 - all District employees to pay a portion of their health care and pension costs

Questions



Summary of the EBDA Commission Meeting

Thursday, December 17, 2015 at 9:30 a.m.

Prepared by: P. Eldredge

- Commissioners Fernandez, Dias, Johnson, Peixoto, and Prola were present.
- The Consent Calendar was approved unanimously and included the Commission Meeting Minutes, List of Disbursements, and Treasurer's Report.
- The Commission unanimously approved the reports from the General Manager, Managers Advisory, Financial Management, Regulatory Affairs, and Operations & Maintenance committees. The following items were discussed:
- **General Managers Report** - General Manager Connor updated the Board on the status of the Outfall Pipe Inspection. The Commission was advised of a leak at Location 7 near the San Leandro Channel. As a precaution the leak was reported to the Water Board and Applied Marine Sciences, Inc. services were requested to provide a report summary of dilution at the San Leandro Channel edge. Samples indicate a minimum dilution of 100:1, which meets water quality standards. Superintendent of Operations and Maintenance David Stoops provided an overview of the EBDA Outfall Pipe Inspection, which included a short underwater video of the inspection. Chairman Dias asked that the issue of bay silt buildup be watched. The inspection will continue in spring 2016.
- **Managers Advisory Committee (MAC)** met with General Manager Connor on December 16, 2015. The MAC discussed the HEPS Draft Cost Benefit Analysis this will be an ongoing discussion for the managers. The General Manager stated that the EBDA system worked well during the recent wet weather events. It is apparent that the steps the member agencies have taken to prepare for the El Nino rains are working well. The MAC also discussed the EBDA Outfall Pipe Inspection.
- **Financial Management Committee** approved the November list of disbursements and Treasurer's Report at the meeting of December 15, 2015. The Authority completed its work on the State Coastal Conservancy (SCC) Sea Level Rise project. The SCC fully funded the grant and it closed, as scheduled, on November 30, 2015. The Committee also reviewed the Valuation of Retiree Health Benefits (as of July 1, 2015) that was prepared by North Bay Pensions. The Finance Committee believed it fiscally prudent to increase EBDA's annual CERBT fund contributions as projected by the actuary and recommended approval of Resolution 15-24 accepting the GASB 45 valuation report.
- **Regulatory Affairs Committee** met on December 15, 2015 and reviewed EBDA's permit compliance. On December 2, 2015, the Authority's consultants, EOA, Inc. held a meeting

to kick off the NPDES permit process. The Committee also reviewed EBDA's nutrient watershed permit negotiating strategy.

- **Operations and Maintenance (O&M) Committee** met on December 14, 2015 and was updated on EBDA performance. In addition to the following items, the Committee also reviewed the EBDA Outfall Pipe Inspection. The O&M Committee discussed three projects: AEPS hydraulic study; HEPS Motor Control Center replacement; and OLEPS automation upgrade project. The OLEPS automation upgrade project has improved reliability of the system.

The Commission unanimously passed the following:

- Commissioner Peixoto moved to accept the actuarial valuation of retiree health benefits as of July 1, 2015. The motion was seconded by Commissioner Prola and carried unanimously, 5-0. (Fernandez, Johnson, Prola, Peixoto, Dias; ayes).

NATION

WASHINGTON

Political clash dooms drought law's prospects

By Carolyn Lochhead

WASHINGTON — A closed-door attempt to rewrite California water law crashed late last week in a public row between Sen. Dianne Feinstein and House Majority Leader Kevin McCarthy that could doom drought legislation for yet another year.

A small cadre of San Joaquin Valley Republicans, including McCarthy, who hold top House leadership posts had been in talks with Feinstein for months to meld two starkly different approaches to California's water shortages. The aim was to fuse a bill by Feinstein, co-sponsored by Sen. Barbara Boxer, D-Calif., that calls for spending on desalination, recycling, new dams and habitat protection, with a House-passed bill that would mainly move more water through the Sacramento-San Joaquin River Delta south to farms and cities by overriding federal and state fish protections.

McCarthy, R-Bakersfield, who was forced to abandon his bid for House speaker this year after a series of missteps, enraged Feinstein on Friday by sending a 92-page California water bill, ostensibly approved by her, to the Appropriations Committee to insert into a giant spending bill for the entire government. Congress must pass what is called an omnibus spending bill by Friday to avoid a government shutdown, making the bill a magnet for special-interest additions that attempt to make controversial policy changes without debate or public input.

In a rare step, Feinstein issued two statements, one shortly after noon

Friday, and the other almost six hours later, publicly denouncing the plan and disassociating herself from it. She called it "regrettable" that the bill was "proposed in my name, which I did not approve," and that it was to be slipped into the giant spending bill, which "stands in opposition to my desire to do a bill in an open and public manner."

Dems feel excluded

A few hours later, she rejected McCarthy's claim that California and Obama officials had vetted the pact as "patently false."

The water negotiations had previously been

The drought is evident at Folsom Lake (Sacramento County). The chance of passing drought legislation this year appears remote after a rewrite attempt.

billed as a public process that sought to avoid the embarrassing collapse last year of secret Washington water talks between Feinstein and San Joaquin Valley Republicans.

Talks between Feinstein and McCarthy began after the Senate held a hearing on Feinstein's bill and the House passed its version. Despite the promise of openness, Bay Area Democrats complained that they had been shut out of the process again. Rep. Jared Huffman, D-San Rafael, said only one Northern California Democrat, Rep. John Garamendi,

D-Walnut Grove (Sacramento County), had been allowed to participate, and even Garamendi was kept in the dark as the bill took shape. "The usual cast of attorneys for irrigation interests started writing the bill," Huffman said.

Rep. Jerry McNerney, D-Stockton, said parts of the legislation that had leaked out would have overridden the Endangered Species Act and Clean Water Act.

The bill called on the secretaries of the interior and commerce to "supply the maximum quantity of water supplies practicable to Central Valley Project agricultural, municipal and industrial contractors ... by approving operations or temporary projects to provide additional water supplies as quickly as possible."

McCarthy's office had no comment other than to say in a statement that the drought compromise "is largely a byproduct of bipartisan negotiations" and that the effort to hurry things along was intended to take advantage of this year's winter rains.

"In order to take advantage of precipitation from El Niño, we must act now," McCarthy said.

Rich Pedroncelli / Associated Press

Starting from scratch

Feinstein said until Friday that the two sides had been nearing an agreement but that "significant issues remain."

The chance of passing drought legislation this year now seems remote, even if the Friday deadline to pass the big spending bill is extended a week. As happened last year, the process will most likely start over again in January.

Carolyn Lochhead is The San Francisco Chronicle's Washington correspondent. E-mail: clochhead@sfgchronicle.com Twitter: @carolynlochhead



The Argus

'Potential for disaster'

Get ready for the deluge

FEMA warns Californians to expect El Niño to bring rain, winds that may be unrivaled

By Lisa M. Krieger

Thursday, December 10, 2015

lkrieger@mercurynews.com

With El Niño bearing down, federal emergency officials on Wednesday issued their strongest warnings yet, urging Californians to prepare for the predicted onslaught of storms by taking immediate steps that could save lives and property.

"It is critical that citizens take the risk seriously," said Bob Fenton, of the Federal Emergency Management Agency, who led an emergency response drill with regional agencies in Sacramento on Wednesday.

If this El Niño mimics the winters of 1982-83 and 1997-98, as expected, Bay Area counties face a trifecta of flood risk: seasonally high "king tides," storm-induced surges near beaches and rising rivers along flood plains, experts said. Already, sea levels are higher than normal due to El Niño's warm ocean temperatures.

Residents in flood-prone California, especially, should do the following: research their risks and reduce them before the rain starts; create a family emergency plan; and buy flood insurance.

"People don't plan to fail — they fail to plan," said Todd Morris, National Oceanic and Atmospheric Administration's Regional Coordinator for Weather Services. "Nobody is intentionally reckless with their lives or their family's lives. Everybody wants to do the right thing. ... But there is potential for disaster."

While officials are ready to assist in emergencies, they prodded residents to reduce risk now by taking responsibility for themselves, their family and their community.

"If you hear a warning to evacuate, act accordingly," Fenton said. "People often want to 'wait and see' — but, please, don't wait. Everything can be replaced, but your life can't."

Homes on the Santa Cruz, San Mateo and Monterey coasts are at high risk due to winds and so-called "storm tides," the combination of ocean storm surge and the astronomical tide, Morris said. For example, a 15-foot storm surge on top of a 2-foot high tide can send waves cascading onto property 17 feet beyond usual levels.

Homes in communities that ring the bay may be at risk if there is a "king tide," Morris said. King tides are anticipated for late December as well as late January. These low-lying areas also face flooding due to swollen rivers.

Above-average ocean temperatures have already elevated sea levels, boosting the risk, he added.

If all of these scenarios converge, "there's a domino effect," Morris said.

Landslides also are a threat. More than \$22 million was doled out by FEMA to California victims of landslides during the 1997/98 El Niño, including about \$8 million for homes in Pacifica, La Honda and Loma Mar, Daly City, Aptos, Boulder Creek and parts of Sonoma County. The severity of El Niño's impact will depend on the volume of rainfall and the duration of rains, Morris said. The perfect storm delivers "a gentle light rain that continues for several days, soaking in," he said.

Many Californians have already taken heed of warnings, the experts noted. About 7,100 new flood insurance policies have been purchased in the last month.

El Niño — named years ago by Peruvian fishermen for the Christ child because it typically starts around Christmas — is already creating a crazy quilt of weather around the nation.

While the West Coast hasn't yet felt El Niño, caused by abnormal warming of the surface waters of the equatorial eastern Pacific Ocean, other parts of the United States are breaking weather records, according to the National Weather Service.

This month, Texas, Oklahoma, Arkansas and portions of South Florida received 5-8 inches more rain than normal. Detroit experienced its sixth-warmest November since 1874. October gave Bismark, North Dakota, a rare 90-degree day and one of the latest snowfalls on record; the state will continue to see warmer than normal temperatures throughout the winter, meteorologists predict.

In California, forecasters predict that El Niño-related conditions will start in January and last through March.

"We are looking at the potential for one of the strongest El Niños in recorded history," Morris said.

In some areas, such as Lake and Calaveras counties, mountains are black and bare from fires, with mud ready to tumble in massive landslides. Flash flooding is another risk in these communities.

Experts are also worried about the low-lying Central Valley, where levees and dikes may be unable to hold water from raging rivers. In 1997, flooding inundated nearly 300 square miles of the valley, covering about 26,000 structures, forcing evacuation of 150,000 people and killing eight.

In the Delta, where the large Sacramento and San Joaquin rivers converge, "rain coming down those rivers has very little area in which to go," said Fenton, who worries about the ability of the levee system to hold rising waters.

In the southern San Joaquin Valley, four rivers — the Kaweah, Kern, Kings and Tule — empty into the old Tulare Lake basin area, which historically floods. The once-rural region is now filled with homes, highways, water treatment facilities and valuable oil and natural gas infrastructure.

At the Wednesday rehearsal, government officials reviewed procedures, identified at-risk populations and facilities and discussed some of the gaps and shortfalls that remain.

“This is not just a government solution but a public private ‘all hands on deck’ solution,” said Fenton. “We all need to be out in front of this, as it is happening.”

Contact Lisa M. Krieger at 650-492-4098. Follow her at [Twitter.com/LisaMKrieger](https://twitter.com/LisaMKrieger) and [Facebook.com/ LisaMKrieger](https://facebook.com/LisaMKrieger).

“If you hear a warning to evacuate, act accordingly. People often want to ‘wait and see’— but, please, don’t wait. Everything can be replaced, but your life can’t.”

— Bob Fenton, FEMA



After El Niño rains in 1998 washed away part of a cliff in Pacifica, this home was left hanging precariously above the pounding surf. Besides landslides, floods are also a threat this year.

ROBIN WEINER/ASSOCIATED PRESS

DECEMBER 12, 2015

Southern California desalination plant will help ease water crunch, but price is steep

The Sacramento Bee

By Dale Kasler

dkasler@sacbee.com

Carlsbad

The newest weapon in the war on drought in California has arrived, an engineering marvel that will harvest drinking water from the ocean on a scale never before seen in the Western Hemisphere.

A giant water desalination plant will open this week north of San Diego, tucked behind a power plant across the street from Tamarack State Beach. It will produce 50 million gallons of fresh water each day, meeting 7 percent to 10 percent of the San Diego County Water Authority's demands and buffering the region against supply shortages for decades to come.

Oh, and it will be expensive – ridiculously so, in the minds of some critics. Built by privately owned Poseidon Water of Boston for \$1 billion, the plant will deliver some of the priciest water found anywhere in California. It will cost twice as much as the water San Diego gets from the Metropolitan Water District of Southern California, which provides the bulk of San Diego's supplies.

Yet San Diego officials say the Carlsbad project, representing a comparatively small slice of its overall water supply, will add only a few dollars a month to customer bills. Besides, with Metropolitan's prices relentlessly rising, San Diego officials say desalination eventually will become competitive with the region's other water sources.

Read more here: <http://www.sacbee.com/news/state/california/water-and-drought/article49468770.html#storylink=cpy>

What's happening in Carlsbad could have implications for statewide water policy. The first major desalination facility built in California and the largest in the Western Hemisphere, it could establish desalination as a potentially major tool in solving the state's long-term water stress.

"I think we've blazed a trail," said Sandy Kerl, deputy general manager of the San Diego water authority. "It's being watched with a lot of interest."

The public will get its first glimpse at the grand opening Monday. Commercial operations will start later this month, with the arrival of the first flows of desalinated water at the authority's aqueduct 10 miles inland. It marks a pivotal moment in a journey that began 15 years ago, when the plant was initially proposed.

"If it's successful, as I believe it will be, others will follow," said Peter MacLaggan, the Poseidon vice president overseeing Carlsbad.

Until now, desalination has produced just a trickle of California's water supply. Although the technology has been around for centuries, it requires a lot of energy, the process is expensive and normally cheaper water is available from conventional sources. It's also controversial among environmentalists, who say fish and other marine life can be harmed when seawater is sucked into the plants and leftover brine is discharged into the ocean.

California has just two dozen small desalination plants, most of them inland facilities that clean up brackish groundwater. In fact, only one significant desalination plant operates in the United States, a Tampa facility half the size of Carlsbad's.

The Tampa plant has had something of a troubled history. Poseidon was its original developer but was replaced after financial problems arose with two of its contractors. It took years for the plant to get up to full speed. San Diego officials researched the problems in Tampa before they signed up with Poseidon and say they're confident in the company's abilities.

"We didn't just walk into this," Kerl said.

Desalination has a far more accomplished track record in other parts of the world. It's practically a mainstay in the parched Middle East and generates 70 percent of Saudi Arabia's drinking water and 25 percent of Israel's. It's no coincidence that a leading Israeli desalination company, IDE Technologies, will operate the Carlsbad plant.

"In the Middle East, they have no options," said Tom Pankratz, an industry consultant in Houston and editor of the Water Desalination Report.

Now, because of drought and the specter of climate change, California's options appear more limited and desalination is getting a fresh look.

Read more here: <http://www.sacbee.com/news/state/california/water-and-drought/article49468770.html#storylink=cpy>

State policy encourages it: Proposition 1, the \$7.5 billion water bond measure approved by voters in 2014, allocates \$100 million to help local water agencies build desalination plants. Several coastal communities are looking at building small desalination plants. Santa Barbara is planning to reopen a small plant that ran for three months in 1992 and got mothballed after the early-1990s drought ended.

“It’s because of the severe drought we’re in,” said city project engineer Bob Roebuck. “That’s the entire motivation. Our water reservoirs are extremely low.”

A ‘drought-proof’ supply

Still, it seems unlikely that desalination plants will become a major feature of California’s fabled coastline anytime soon. The Carlsbad project endured 14 lawsuits and more than a decade of negotiations and red tape before Poseidon could break ground. Construction took three years.

Along the same lines, Poseidon has been working for years to clear regulatory hurdles on a plant it is proposing in Huntington Beach, a project about the size of Carlsbad’s. It has the tentative blessing of local officials, but a green light from the state is anything but assured.

California appears to be of two minds about desalination. While state officials are offering Proposition 1 dollars for plant construction, the environmental regulations remain formidable.

Poseidon’s Huntington Beach project is running into resistance over the design of its intake valves. A new state policy, implemented earlier this year by the State Water Resources Control Board, says the valves should be built underneath the ocean floor, if feasible. That would keep fewer fish and larvae from getting sucked into the plant’s mechanism. (Carlsbad got its permits before the policy was approved and doesn’t have this “subsurface” intake feature.)

This isn’t a small point. Poseidon, citing a recent report from an independent scientific panel, says installing intake valves beneath the ocean would create its own major environmental problems. The requirement also would kill the project’s economic viability by doubling construction costs to around \$2 billion, according to the panel.

The intake design, and the entire project, face a crucial vote before the California Coastal Commission before the plant can proceed. The commission probably will vote next spring.

“I wouldn’t say it faces an uphill battle, but it faces a great deal of scrutiny,” said commission Chairman Steve Kinsey, a Marin County supervisor.

By then, the Carlsbad plant should have several months’ operational experience under its belt. Poseidon executives say the plant will prove the technology’s value once and for all.

Read more here: <http://www.sacbee.com/news/state/california/water-and-drought/article49468770.html#storylink=cpy>

Now in its final testing phase, the plant will run in tandem with a nearby power plant, which draws cooling water from the ocean. Poseidon will take the water discharged by the power plant and pump it through a series of preliminary filters. The water then will flow into the heart of the Poseidon complex, the “reverse osmosis” building, where it will filter through paper-thin, plastic-coated membranes to remove the last vestiges of salt and other minerals. When the process is complete, the leftover brine will be diluted with ocean water and sent back to sea. The purified water will be fluoridated and chlorinated in preparation for delivery to the water authority.

The entire process will take an hour, said Poseidon vice president Scott Maloni.

“It’s the only true drought-proof supply available, and it’s a half-penny a gallon,” he said.

Even so, desalination is expensive by California standards. Depending on how much it buys each year, San Diego has agreed to pay \$2,131 to \$2,367 an acre-foot for Poseidon’s desalinated water, including the cost of piping the finished product to the authority’s aqueduct. By comparison, Kerl said the authority pays just under \$1,000 an acre-foot for water imported from Northern California and delivered to San Diego’s doorstep by Metropolitan. An acre-foot is 326,000 gallons.

San Diegans will begin seeing the financial impact in 2016. The costs of desalination are expected to increase the average residential bill, now around \$80 a month, by about \$5 a month.

State policymakers say there’s nothing necessarily wrong with expensive water – it encourages conservation. They’ve been frustrated, in fact, by a court ruling last spring that makes it harder for municipalities to impose substantial rate hikes to reduce consumption.

Nonetheless, environmentalists generally oppose desalination partly because of cost; they consider it an uneconomical, wasteful technology. Besides harming marine life, they say it consumes far too much energy. They want California to put greater emphasis on lower-cost recycling and conservation programs instead of finding new ways to expand consumption of water.

“There are less expensive alternatives; there are better alternatives,” said the Planning and Conservation League’s Jonas Minton, a former deputy director of the state Department of Water Resources.

The price of reliability

Critics also take issue with the particulars of San Diego’s deal with Poseidon, specifically the “take or pay” provision. The water authority’s contract obligates San Diego to buy at least 48,000 acre-feet of water each year from the Carlsbad plant, whether it needs it or not. The maximum purchase is 56,000 acre-feet annually.

Read more here: <http://www.sacbee.com/news/state/california/water-and-drought/article49468770.html#storylink=cpy>

Peter Gleick of the Pacific Institute, a water-policy think tank in Oakland, said San Diego's deal reminds him of Australia's zealous efforts to desalinate its way out of its 14-year "millennium drought." He said six plants were built, at a cost of around \$10 billion, but only two are operating now that the drought has ended.

"Four of them have been mothballed because they're too expensive and they're not needed," Gleick said. "I think it's premature for California to be going down that road."

San Diego officials, however, staunchly defend the need for the plant, saying the time has come for a more diversified portfolio. The region has been among the leaders in the state on recycling and conservation, reducing per-capita water consumption by 39 percent in the past quarter-century. Officials say it's time to expand supply.

"You cannot manage a community and an economy on conservation alone," Kerl said.

Plunging into the desalination business also represents another step in San Diego's quest for water independence. The water authority has had an uncomfortable relationship with Metropolitan, a powerful wholesale agency from Los Angeles that brings San Diego about half its water supply.

The relationship sometimes gets litigious. After San Diego cut a deal 12 years ago to buy water from farmers in Imperial County, it was required to pay hefty delivery fees to Metropolitan, which runs the canals connecting the two counties. San Diego challenged the fees in court, and a judge recently ruled that Metropolitan has been overcharging San Diego to the tune of \$188 million plus interest. Metropolitan is seeking a new trial.

Kerl said the arrangement with Poseidon gives San Diego greater control over its own destiny. That includes costs. While the contract includes an escalator clause that's expected to increase prices by as much as 2.5 percent a year, the rate hikes are capped at 30 percent over the 30-year life of the contract. There's no such cap with Metropolitan, Kerl said.

"With the water with Met, we have no controls, or frankly, influence over what the cost is going to be," Kerl said.

In addition, between the drought and environmental restrictions in the Sacramento-San Joaquin Delta, Metropolitan's ability to deliver water from Northern California has become increasingly undependable, San Diego officials say. The area's population has ballooned to 3.2 million, and Kerl said many San Diegans have keen memories of major supply cutbacks imposed by Metropolitan during the early 1990s drought.

"We're not ever wanting to be in that position again," Kerl said. "This is about the long haul."

Read more here: <http://www.sacbee.com/news/state/california/water-and-drought/article49468770.html#storylink=cpy>

Monday's dedication ceremony is expected to attract dignitaries such as Assembly Speaker Toni Atkins, a San Diego Democrat. Community leaders say the grand opening will shine a light on San Diego's long-standing efforts to seize the initiative on water issues.

"In the Western Hemisphere, this is the biggest thing to happen in terms of manufacturing water in a long while," said Jim Madaffer, a public affairs consultant in San Diego and member of the water authority board. "It is more expensive, but it's the price you pay for water reliability long term."

Dale Kasler: 916-321-1066, @dakasler

Read more here: <http://www.sacbee.com/news/state/california/water-and-drought/article49468770.html#storylink=cpy>

Union Sanitary District proposes rate hikes in Fremont, Union City, Newark

By Rebecca Parr rparr@bayareanewsgroup.com

Updated: 12/22/2015 03:45:53 AM PST

MercuryNews.com

UNION CITY -- Union Sanitary District is seeking rate hikes for the next five years.

Rates for houses would go up 1 percent in fiscal 2017 and 3.5 percent each of the next four years.

Homeowners now pay \$377 annually; if the proposal is approved in January, that would go up to \$380.05 in 2017 and \$436.12 in the fifth year.

The district provides sewer service to Fremont, Union City and Newark.

A community meeting on the proposed rate increases is scheduled from 6 to 8 p.m. Jan. 12 at the Fremont Main Library, 2400 Stevenson Blvd. The district board will hold a public meeting on the proposal Jan. 25.

Union Sanitary District has had a rate increase every year since 2003.

Multifamily customers currently pay an annual flat rate of \$326. That would increase to \$329.50 in fiscal 2017 and \$378.11 in the fifth year.

Nonresidential customers are charged either a minimum \$326 a year or a fee based on volume. The minimum would go up to \$378.11 by the fifth year.

"We understand that no one likes a rate increase, and we strive to provide a reliable, essential service as efficiently and cost-effectively as possible," said Paul Eldredge, district general manager. "Even with the proposed increases, our rates would remain well below those of other Bay Area agencies."

The city of Hayward and Oro Loma and Castro Valley sanitary districts are the only Bay Area agencies with lower sewer service rates than Union Sanitary, according to the district.

Property owners can protest the proposed rates via mail, email or fax until 5 p.m. Jan. 25, or in person before the close of the public comment portion of the public hearing. The hearing will be 7 p.m. Jan. 25 in the district boardroom, 5072 Benson Road, Union City.

Protests must contain the property owner's name and the street address or assessor's parcel number (or other parcel description) and must be signed, unless sent via email, by the property owner. Property owners may submit one protest for each parcel owned.

Protests may be sent to Union Sanitary District -- Rate Protest FY17-21 at 5072 Benson Road, Union City, CA 94587; rates@unionsanitary.ca.gov; or faxed to 510-477-7501.

Union Sanitary District provides sewer service to 111,200 properties. It maintains more than 800 miles of pipeline and operates a 33 million gallons-a-day wastewater treatment plant in Union City.

Contact Rebecca Parr at 510-293-2473 or follow her at [Twitter.com/rdparr1](https://twitter.com/rdparr1).

Union Sanitary District rate hikes

Informational community meeting: 6-8 p.m. Jan. 12, Fremont Main Library, 2400 Stevenson Blvd.

Public hearing: 7 p.m. Jan. 25, Union Sanitary District boardroom, 5072 Benson Road, Union City



DATE: December 23, 2015

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 Continues Repairs to Damaged Sewer Line

Union Sanitary District's repair of the damaged sewer on Alvarado Boulevard in Union City is entering the final and most difficult phase. The 33-inch sewer pipe is about 20 feet deep and located in an area of unstable soils and high groundwater. The remaining work consists of the excavation of a large, deep pit at the intersection of Alvarado Boulevard and New Haven Street. It is currently anticipated the excavation area will be 60 feet long, 15 feet wide, and 20 feet deep to accommodate the necessary repairs to the sewer line and manhole. These repairs should not have an impact on the sewer services of the surrounding area.

Due to the large size and location of the repair pit and the staging area needed by the contractor to perform the work, the westbound lanes on Alvarado Boulevard between Fair Ranch Road and Fredi Street will be closed from December 28, 2015 through April 15, 2016, weather permitting. The Contractor will be working from 7:00 a.m. to 5:00 p.m. Monday through Friday. At least one eastbound lane on Alvarado Boulevard will be open at all times.

District staff are coordinating closely with the City of Union City, New Haven Unified School District, Union City Police Department, and the Alameda County

Fire Department to minimize inconvenience to the public and ensure appropriate access is maintained at all times for emergency services. In addition, Union Sanitary District is coordinating with the New Haven School District and the Union City Police Department to arrange for traffic control at the entrance of Itliong-Vera Cruz Middle School (formerly Alvarado Middle School) at Fredi Street and Horner Street during this period.

The cause of the sinkhole is still unknown at this time. Determining an exact cause may be difficult, as multiple factors could have contributed to the sinkhole. The affected area includes infrastructure for several utilities, as well as extensive groundwater and sandy soils. Ensuring the stability of the area and completing a permanent, effective repair has been and will remain the focus for USD crews.

"This is going to be a project that will require patience on the part of everyone involved," said USD General Manager Paul Eldredge. "There is a great deal of work to be done, and we are determined to do it as safely and quickly as possible."

###

Union Sanitary District operates a 33 million gallon per day wastewater treatment facility in Union City and provides collection, treatment and disposal services to a total population of over 344,000 in Fremont, Newark and Union City, CA. The District maintains over 800 miles of underground pipeline in its service area. For more information about Union Sanitary District, please visit www.unionsanitary.ca.gov.

Union City Thoroughfare To Close For Months As Sinkhole Repairs Begin

December 24, 2015 10:43 AM

UNION CITY (CBS SF) — Part of a busy Union City thoroughfare where a large sinkhole formed two months ago will be closed for months for repairs to a damaged sewer line, sanitary district officials said Wednesday.

The westbound lanes of Alvarado Boulevard between Fredi Street and Fair Ranch Road will close from Monday until April 15, weather permitting, as utility crews finish repairs on the sewer line, according to the Union Sanitary District.

The company working to repair the sewer line will be working from 7 a.m. to 5 p.m. each week from Monday to Friday to repair the line after the road collapsed above the line Oct. 14.

"There is a great deal of work to be done, and we are determined to do it as safely and quickly as possible," district General Manager Paul Eldredge said in a statement.

Utility officials do not know the cause of the sinkhole and they may never know, the officials said. Infrastructure for multiple utilities as well as sandy soils and groundwater is in the area of the sinkhole.

Making sure the area is stable and effectively repairing the area is the focus of utility crews and officials, the officials said.

The pipe under repair is 33 inches in size and is about 20 feet below ground. The soil in area near the pipe is unstable and the groundwater table is high.

Crews will have to dig a pit about 60 feet long, 15 feet wide and 20 feet deep at Alvarado Boulevard and New Haven Street to repair the pipe and manhole, utility officials said.

Sewers services in the immediate area will not be interrupted and one eastbound lane of Alvarado Boulevard will be open during the repairs, utility officials said.

Police, city, Alameda County Fire Department and New Haven School District officials are working together to be sure first responders have access to the affected area.

Also, police, district and school district officials are working together to control access to Itliong-Vera Cruz Middle School at Fredi and Horner streets.

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The Argus

Union Sanitary District proposes to increase sewer rates for five straight years

By Julian J. Ramos - Fremont Bulletin

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A public hearing on proposed sewer rate increases over the next five years for Union Sanitary District customers is scheduled for Jan. 25.

The hearing takes place 7 p.m. in the board room of district headquarters at 5072 Benson Road in Union City.

District officials say the increases are meant to cover rising costs associated with providing sewer service and maintaining aging infrastructure.

The district, which serves Fremont, Newark and Union City, plans to raise rates for single-family residences by 1 percent by July 1 and 3.5 percent in each of the four following fiscal years. Sewer service charges are collected on the property tax roll in the same way as general taxes.

The current annual rate for single-family residences is \$377. If adopted by the district's board of directors, the rate would jump by \$3.05 to \$380.05 in the 2016-17 fiscal year. In the fifth year, the rate would be \$436.12, a difference of \$59.12 from the current rate. Non single-family residential customers, such as commercial and industrial users, would also see higher rates.

"The proposed rates are based on the results of a comprehensive study of the cost of providing sewer service from July 2016 through June 2021," the district explained in a written announcement. "They reflect the study's calculations of minimum rate increases for each year that would allow the district to meet its capital, operational, and reserve expense requirements."

Anticipating its revenue would be lower because customers conserved water during the drought, the district modified some operating expenses and delayed certain capital projects.

Revenue is expected to decline in the current fiscal year, which ends June 30, 2016, by as much as \$3 million because non-residential customers used less water, according to the district.

The sewer service charge is expected to generate 80 percent of the district's \$60 million total operating revenue this fiscal year.

Total operating expenses meanwhile are anticipated to be about \$1.8 million higher, or 5.6 percent, than last fiscal year. About 42 percent of the district's total budget is committed to personnel expenses; it has 137 employees.

Several factors have contributed to anticipated higher operating expenses, including salary increases, rising health care costs, higher prices for various chemicals used in wastewater treatment processes, steeper energy bills and capital projects with costlier labor and materials.

The same variables for 2016-17 are being taken into account for the upcoming five fiscal years, said Paul Eldredge, the district's general manager.

"They are all still very true," he said.

Eric Tsai, a Fremont resident critical of the proposed hikes, said district customers have already seen 13 consecutive years of rate increases. If the board approves the new five-year rates, that streak will be extended to 18 straight years, he said.

In 2006, single-family residences paid a rate of \$215.57. The rate has increased by \$161.43, or nearly 75 percent in the past decade, Tsai said.

The last four times the district proposed rate increases it went for three years at a time. However, in a "significant change in policy," the district is now proposing five years of rate increases at one time to avoid public accountability and transparency, he suggested. That's because each time the district proposes a rate increase it must hold a public hearing and send notices to ratepayers justifying them. "This provides a lot of important information to the public," he said. "If (the district) gets its way and passes five years' worth of rate increases at one time, the next time the public and media will hear about rate increases and (the district's) finances will be in 2021."

In the November 2014 election, Tsai ran unsuccessfully for the Alameda County Water District Board of Directors.

The district proposed five years of rate increases instead of three because the longer timeframe would save costs associated with staff time, service analysis, public outreach and public hearings, Eldredge said.

Compared to 26 similar wastewater agencies in the Bay Area, Union Sanitary District's annual service charges are in the lowest 11.5 percent, Eldredge added. The district annually conducts a rate comparison survey.

An informational meeting to allow customers to meet district staff and ask questions about the proposed rates and services has been scheduled for 6 to 8 p.m. Tuesday, Jan. 12 at Fremont Main Library, 2400 Stevenson Blvd.

Property owners may protest the proposed rates by mail, email or fax until 5 p.m. on Jan. 25 or in person before the close of the public comment portion of the public hearing that evening. Protests must contain the property owner's name, street address or assessor's parcel number (or other parcel description), and must be signed, unless sent by email, by the property owner. Property owners may submit one protest for each parcel owned. Protests may be submitted by mail to Union Sanitary District -- Rate Protest FY17-21 at 5072 Benson Road, Union City, Calif. 94587, by email to rates@unionsanitary.ca.gov, or by fax to (510) 477-7501.

The district oversees more than 810 miles of sewer lines, seven pump stations and the buildings and equipment at its 33-acre Union City Wastewater Treatment Plant.

Contact Julian J. Ramos at ramos@themilpitaspost.com or 408-262-2454 or follow him on twitter.com/julianjramosmp. Visit us on our social media sites at facebook.com/FremontBulletin and twitter.com/FremontBulletin.

PG&E bills will jump in new year

Residential customers' costs set to increase 7 %

By David R. Baker

Come Friday, Pacific Gas and Electric Co. customers will receive an unwelcome New Year's gift — higher prices for electricity and natural gas.

PG&E's average monthly bill for residential customers in 2016 will jump 7 percent to \$147.21, the utility reported Wednesday. That follows a 6 percent rise at the start of 2015 and marks the highest increase since 2006.

And most of it reflects decisions that California utility regulators made more than a year ago.

For electricity, the typical homeowner using 500 kilowatt-hours per month will pay \$97.14, up from \$89.56 in 2015. The average residential

PG&E bills will jump 7% starting in January

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customer will pay \$50.07 per month for natural gas, compared with \$48.10 this year. (Those monthly figures represent year-round averages, because most PG&E customers use little natural gas in the summer and larger amounts in the winter.)

A typical small business can expect combined monthly bills for electricity and gas service to rise 5.1 percent, to \$268.15.

The changes follow a decision by the California Public Utilities Commission in 2014 to let PG&E collect an extra \$2.37 billion in revenue from its customers over three years, from the start of 2014 through the end of 2016. The additional money will pay for maintenance and upgrades to PG&E's sprawling electricity grid and natural gas pipeline network, both of which span most of Northern and Central California.

The increases will not pay for any penalties related to the deadly 2010 San Bruno pipeline explosion, said company spokesman Greg Snapper.

While acknowledging the rise in monthly bills, PG&E on Wednesday urged its customers to contact the utility for ways to save energy. PG&E, for example, offers audits of home

What customers will pay

Monthly PG&E bills will climb with the new year.

	2015	2016
Electricity	\$89.56	\$97.14
Natural gas	\$48.10	\$50.07
Total	\$137.66	\$147.21

Average monthly bill for residential customers.

Source: Pacific Gas and Electric Co.

energy use and discounted electricity and gas rates for low-income families.

"We want our customers and their families to know that we are here to help them make smart energy choices and save money whenever possible," said Laurie Giammona, PG&E senior vice president and chief customer officer.

More bill increases will likely follow.

PG&E in September asked the commission to increase by \$2.7 billion the amount of revenue it collects for the years 2017 through 2019, saying the money would be needed to improve the utility's response to natural disasters. Although the commission rarely grants utilities all the revenue they request, the panel has not yet voted on PG&E's latest proposal.

In addition, the commission has already approved major, long-term electricity rate changes that probably will raise bills for many Californians. In July, the

panel voted to narrow the difference in prices paid by homeowners who use large amounts of electricity and those who use very little. Energy-saving homeowners will likely pay more once those changes are phased in, by 2019.

For consumer advocates, higher utility bills have become an unpleasant annual tradition. Mark Toney, executive director of The Utility Reform Network, said a growing number of Californians already are having trouble paying bills, and are seeing their electricity service temporarily cut off as a result.

"There are things the (commission) can do to hold the line on rate increases," Toney said. "They should look at how effective the utilities are with the funds they do have. At some point the ability to pay more just disappears."

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Lawmakers look Down Under to help state get over the drought

By Kevin Fagan

January 1, 2016 Updated: January 1, 2016 6:32pm

Don't be surprised to see a flurry of new legislative proposals in 2016 that push toilet water recycling, rooftop water tanks and underground systems to filter sewer sludge for field irrigation in California. Call it the Australian plan.

Nearly three dozen California lawmakers and nonprofit and business leaders flew across the Pacific recently to see how the Aussies slashed their water use in half during a catastrophic 13-year drought that ended in 2010, and they came away so impressed that they want to adopt some of the innovations. Those mostly involve recycling every drop possible from toilets, fields, roofs, gutters and sewer pipes.

The visiting team also thought the Golden State could learn something from Australia's robust water-sales market, which allows farmers to sell water to the government in exchange for help upgrading their irrigation systems. Those systems, in turn, use far less water than the old methods.

Australia did away with an ironclad water-rights market similar to California's, and forced farmers, environmentalists and cities to share supplies from reservoirs equally. The new market allows rights holders to trade water like a commodity, depending on rural and urban needs.

'Eye-opening'

Just how much of the Australian way can be adapted to California is an open question. But the fact that a crippling drought was gut-punched by a country whose most inhabited area resembles California in size, economy and geographical characteristics had the visiting team excited.

"It was eye-opening," said state Senate President Pro Tem Kevin de León, D-Los Angeles, who helped lead the delegation. "It is clear that the Australian government — and in particular the states — has taken a much bolder, active role in dealing with their water crisis than we have, and it was inclusive. We can do more here, and it doesn't have to be us versus them among the various interests. ... We can share ideas, no matter how bold.

"I'm looking forward to sitting down with my colleagues, Democrats and Republicans, to see how we can find common ground to move forward," de León said.

Recycling water

Assemblywoman Susan Talamantes Eggman, D-Stockton, said she hopes to kick-start more use of gray water, storm-water recycling and competitive grants for local conservation innovations.

“I’d like more public-private partnerships like the kind we saw there,” she said. “For instance, in Melbourne we went to the cricket stadium and the horse racing track and saw how they water the grounds with recycled sewer and storm water.

“These are things we can incentivize here by getting around some of the obstacles for permitting for recycling water,” Eggman said. “People have to get past the ‘yuck’ factor on some of the reuse, like from sewers. ... The fact is that if there is no health risk, we should be able to use water as many times as scientifically possible.”

Widespread measures

More than two-thirds of Australia’s houses use systems that recycle water from showers, clothes washers and other appliances for watering gardens and flushing toilets, and many screen their water even more closely for drinking. More than half of the country’s homes capture roof runoff in tanks, and just one heavy rainstorm can produce enough water to supply a house all summer.

In California, only 13 percent of homes use gray water, and rain barrels are rare.

All told, Australia spent \$13 billion on drought-busting programs, which included building six major desalination plants.

De León and Eggman were among 11 state Democratic and Republican legislators who made the 10-day trip in October and November, after a Chronicle report on Australia’s drought measures. They were joined by 24 others ranging from members of the state Water Commission and California Farm Bureau Federation to representatives of the Nature Conservancy and Shell Energy North America.

The expedition was funded by the California Foundation on the Environment and the Economy, a San Francisco think tank that examines labor, environmental and business issues.

A report by the foundation after the trip urged substantial investment in water recycling, monitoring of all water so it can be better managed, and construction of systems to capture rainwater runoff that now mostly flows off city streets into the ocean. Desalination, such as the \$1 billion plant that opened in December near San Diego, should be considered as just one part of the antidrought equation, it said.

Most of all, the report urged: “Start now. It will take 20 to 30 years to realize results.”

“When I came back from what I saw, my head was actually spinning at the enormity of what they accomplished,” said Patrick Mason, president of the foundation. “It’s going to take a while to do what we need to here, but there is no putting it off.

“The legislators we have today ... won’t see the end of what they start, but they have to do it now,” Mason said.

First steps

The easiest first step would be to encourage — possibly with tax breaks or grants — systems that recycle home gray water and rainwater from roofs, streets and fields, participants said. California farmers and ranchers who, as in Australia, use about 80 percent of the available water, would be the most complicated group to please.

Some of the reforms that eliminated longtime farming water rights in Australia met with fury, and there is still grumbling over agricultural priorities versus urban or environmental needs. But those who made the Australian trip agreed that water discussions between rural and city interests are harmonious compared with the past.

Paul Wenger, president of the California Farm Bureau Federation, said he was impressed at how much easier it is to move water around Australia and to recharge aquifers with storm-water runoff.

“Not everything they did would work over here, but the Aussies do have a better way of coming to the table and working things out,” Wenger said. “Here, our politics are so polarizing we can’t even get people to the table.”

El Niño danger

Above all, everyone agreed, the possible return of steadily pounding rains this winter in California shouldn’t fool anyone into thinking the state can stick to the old ways.

“The reality is that in Australia, they recognized their water system was oversubscribed,” said Jay Ziegler, policy director for the Nature Conservancy. “Like them, we need to recognize that. We need to recognize the seriousness of the drought, of climate change, of longer drought cycles, more severe storm years — just to think longer term about water management.

“My fear is that the delirium of one good El Niño year will erase the realization that we use more water than we have in our lakes and rivers,” Ziegler said. “The nightmare is that people will forget we need to continue on a path of reform. We have to be smarter than that.”

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Recycled water in demand, and not just for parks, golf courses

By Sam Richards srichards@bayareanewsgroup.com

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ANTIOCH -- The ongoing drought has driven interest in using recycled water instead of drinking-quality water wherever possible, but making that happen depends largely on where the "purple pipes" run.

Wastewater treatment agencies in the East Bay have been selling (or giving away) the water that runs through those purple pipes -- essentially wastewater that has been treated to a lesser degree than water purified for drinking and other domestic purposes -- for uses ranging from watering home gardens to helping cool down a power plant.

Even if the drought comes to a wet, El Niño-fueled end, cities, industries, and school and park districts will increasingly rely on recycled water. And that will require spending to expand the network of all-important purple pipes that, by state law, carry only "disinfected tertiary" water. Although it isn't safe for humans and animals to drink, it can be used on virtually any food crop and for irrigation of parks and playgrounds, school fields and golf courses.

"Moving recycled water requires separate infrastructure running to the various facilities, and that is very expensive," said Jennifer Allen, director of public affairs for the Contra Costa Water District. Bringing that water to more Contra Costa County industries, she said, will require wastewater agencies and the industries to pay for those purple pipelines and associated equipment.

Antioch-based Delta Diablo recently started supplying recycled water to Contra Costa Waste Services' Loveridge Road transfer station in Pittsburg for ongoing dust control needs, related mainly to recycling construction waste.

"Instead of the (transfer) station using drinking water for dust control, they're using recycled water," said Angela Lowrey, Delta Diablo's public information manager. "It's a matter of addressing the drought and preserving drinking water."

The cost of a gallon of recycled water is approximately one-quarter that of a gallon of drinking water, which is good news for the transfer station, operated by Concord-based Garaventa Enterprises. Sal Evola, a Pittsburg city councilman and a Garaventa governmental affairs officer, said it also plays into the transfer station's main mission.

"Our philosophy is to not waste things; for us, it's all about recovery," he said.

It also helps that the Loveridge Road facility is near an existing Delta Diablo "purple pipe," one the agency hopes will soon serve more industries, Lowrey said.

Even pre-drought, wastewater agencies supplied cities, school districts, park districts and other entities with recycled water. Delta Diablo, which has sold recycled water since 2000, can also serve industrial customers, thanks largely to its location on the East Contra Costa waterfront. Its first industrial client was the Calpine power plant a stone's throw away.

The Central Contra Costa Sanitary District, based near Concord, has had preliminary talks with CCWD and others about making more recycled water available for the area's industrial businesses and refineries.

"Are we looking at doing this? Definitely," said Emily Barnett, the sanitary district's intergovernmental affairs manager. "But other entities have to be involved for there to be a solution."

Part of that solution, she said, is creating projects large enough to be financially practical for both the wastewater agencies and the industries.

Many newer neighborhoods in San Ramon and Brentwood, among other places, have purple pipes as part of the original infrastructure. Concord's remade former Naval Weapons Station land will be built with such pipes, too.

Whether the expense of retrofit work in older, established neighborhoods is justified is a case-by-case matter, said Paul Eldredge, general manager of the Union Sanitary District, which serves Fremont, Union City and Newark.

"We'd have to determine whether the expense, and subsequent ratepayer hikes, would be worth it," he said. A partnership between his agency and the Alameda County Water District to pursue expanding recycled-water service has been discussed but would be at least two to three years away, he said.

The Tri-Valley has little industry, but the Dublin San Ramon Services District provides recycled water to construction companies for dust control. Far more of the district's recycled water goes to the cities of San Ramon and Dublin, the latter of which uses recycled water for 82 percent of its needs, said spokeswoman Sue Stephenson.

"Dublin has been a poster child for recycled water use," said Stephenson, noting that her agency is on the lookout for other bulk users.

Contact Sam Richards at 925-943-8241. Follow him at [Twitter.com/samrichardsWC](https://twitter.com/samrichardsWC).

Union Sanitary District Using Mobile Technology to Increase Efficiency

The District is supplying mobile tablets to technicians to access information while they're in the field.
Union City, CA

By Bea Karnes (Patch Staff) January 4, 2016

If the Union Sanitary District has a New Year's resolution, it's to increase efficiency.

The District's operational groups will soon use mobile technology to boost efficiency as they work in the District's 60 square-mile service area, according to the District's Communications Manager. Employees will use mobile tablets to access information while working in the field on more than 800 miles of underground pipes, at pumping stations located throughout the service area, and at USD's 33-acre treatment plant in Union City.

"Currently, employees must return to the District offices to access and enter information on computer servers," said General Manager Paul Eldredge. "Mobile tablets will increase productivity by enabling staff to securely access many types of data while they are in the field; from information about our buried pipes, to operation and maintenance history for pumps and other equipment."

Treatment plant operators will be able to monitor processes on tablets as they work in remote locations at the District's large facility in Union City. Employees also will be able to complete administrative tasks, such as closing out work orders, without having to transfer handwritten records into databases. It is estimated that more than 3,500 hours of staff time could be freed up annually for other critical tasks, enhancing productivity in operating and maintaining USD's infrastructure.

"USD strives to provide the most efficient service through use of technology," said Eldredge. "Technology has enabled the District to maintain more conservative staffing levels, and helps us to keep rates low while providing award-winning service to our customers."