Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
General Manager/
District Engineer

Karen W. Murphy
Attorney

DATE: February 8, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
James Schofield, Collection Services Work Group Manager
Sheila Tolbert, Human Resources Manager

SUBJECT: Agenda Item No. 8 – Meeting of February 8, 2016
APPROVE THE CLASS DESCRIPTION AND SALARY FOR THE POSITION OF COLLECTION SERVICES TRAINER

Recommendation

Approve the class description and salary recommendation.

Background: In an effort to prevent the Collection Services Work Group from falling behind in critical safety and other necessary team training, Collection Services is proposing to create the Collection Services (CS) Trainer position. This position will be similar in scope to the Treatment Plant Operator (TPO) Trainer positon with responsibilities that include, but not limited to creating journey level training modules, serving as a mentor for newer or lesser skilled employees, facilitating regular and off-cycle training modules and SOP review, preparing new equipment SOP and Training modules, updating and performing document control, and developing and conducting classroom and practical presentations. Additionally, the CS Trainer will perform the duties of Collection System Worker II/Lead Collection System Worker, as needed

The need for this position in Collection Service has been evidenced in lagging performance in the completion of necessary training modules and associated assessments over the last two years. Creation of this position will enable Collection Services to remain current with mandatory trainings and to move forward in the development of journey level training which is necessary for tenured staff.

The CS Trainer will be a two year pilot position that will be re-evaluated on an annual basis to determine if there is an ongoing need. The position will be filled internally within the Collection Services work group without any increase in staff.

Salary: The salary range for the CS Trainer will be $39.41 - $ 47.91 hourly or $81, 972.80 – 99,652.80 annually. This salary range is set at 5% above the Lead Collection System Worker.

The estimated additional annual cost for a FTE to function as CSW/Trainer would be approximately $4,742.00 (5% Lead Collection System Worker, step 5 x 2080 hours).

The CS Trainer will yield considerable benefits, with negligible costs and limited impact on existing work group operations. Attached for your review and approval is a comprehensive job description for the CS Trainer.

Union Sanitary District

Collection Services Trainer

$39.41 - $47.91 Hourly
$3,152.80 - $3,832.80 Biweekly
$6,831.07 - $8,304.40 Monthly
$81, 972.80 - $99,652.80 Annually

Definition

In a team environment and under general supervision, the Collection Services Trainer is responsible for working with management and staff to develop, implement, administer, coordinate, and evaluate the Collection Services technical training program. The incumbent performs difficult and complex assignments related to a competency-based training and skill development program. Frequent interaction with a variety of employees, including the Technical Training Coordinator; managers; union representatives; and vendors is an ongoing requirement of the job. The Collection Services Trainer will also fulfill the role of Collection System Worker as needed to maintain technical skills and to meet Collection Services operational needs. In carrying out these duties, it is essential that the Collection Services Trainer be able to perform the following:

- Conduct training for Collection Services staff on operation and maintenance related topics.
- Research, develop, document, and revise the content of identified competency-based training modules for a wide range of topics related to the operation and maintenance of the District's wastewater collection system.
- Review and/or develop Standard Operating Procedures in conjunction with technical training modules for collection services operations.
- Develop lesson plans and conduct training courses Provide on-the-job training and mentoring including demonstration and observation of collection system worker tasks.
- Recommend and develop tests or standards to measure knowledge and skill and to evaluate training effectiveness and knowledge transfer.
- Perform job competency assessments by observing the demonstration of knowledge and skills.
- Provide feedback and recommend additional training needs to Collection Services Workers and Coaches.
- Confer with the Technical Training Coordinator, as appropriate, to carry out specific responsibilities.
- Work with management to identify training requirements for Collection Services staff.
- Implement a systematic approach to capture changes in job competency requirements and keep the job competency training materials revised on an ongoing basis.

- Fulfill the role of a Collection System Worker II/Lead Collection System Worker as needed in order to maintain technical skills.
- Administer the Collection Services training program by developing and/or maintaining documentation; coordinating logistics and all other aspects of training courses.
- Assist with the development of computer-based training materials to support the job competency training modules.
- Prepare, review, and maintain a variety of reports, manuals, correspondence, and records related to the technical training program.
- Identify/recommend training sources, outside training services, products, and materials or develop training materials to meet the needs of the Team in consultation with Technical Training Coordinator.
- Work with vendors, trainers, and other providers of training and educational services and products.
- Use and apply computer programs related to the work.

Incumbents in this classification will also perform any other duties that are appropriate for its scope and level of responsibility in the organization.

Qualifications

Education and Experience: A typical way of acquiring the knowledge, skills, and abilities to perform this work would be: and five years experience in wastewater collection system operation and preventive maintenance which includes experience providing training to other collection system workers; or an equivalent combination of education and experience sufficient to successfully perform the essential duties of the job.

Knowledge, Skills, and Abilities:
Knowledge of: standard tools, equipment, and materials used in the maintenance, repair, installation, and construction of a wastewater collection system; safe working practices relevant to wastewater collection system maintenance, repair, and construction, including shoring practices; shop mathematics.
A general knowledge of technical training practices, methods, and resources; standard office practices, including full command of Microsoft Office, (Word, Outlook, Excel, and Power Point) and computer-based records management principles. Skill in assessing, designing, developing, implementing, and evaluating the collection services technical training program; preparing training materials; presenting clear technical data and instructional materials; preparing clear, concise, and accurate correspondence. Ability to organize and file information, records, and training materials in an easily retrievable form; assessment of employee competency; train individuals and groups at multiple levels (entry, journey, and professional); maintain attention to detail in records and logistics; communicate clearly and concisely, both orally and in writing; enforce safety precautions and standards; coordinate a variety of activities; meet scheduled deadlines; understand how training efforts fit into larger organizational goals and objectives.

Interpersonal Effectiveness: Must be able to work effectively in a team-based organization focused on continuous improvement; establish and maintain a positive customer service attitude and effective working relationships with internal and external customers; demonstrate strong two-way communication skills, including the ability to listen, explain, and facilitate; ask for input, offer help without being asked, accept suggestions, work with others to solve problems, and provide recognition and encouragement. Must be able to prepare and present information to a variety of groups.

Licenses, Certificates, or Credentials: Must possess a valid Class A California driver's license, have and maintain a satisfactory driving record, and be insurable by the District to operate District vehicles; must possess a Grade II CWEA Collections Maintenance certificate.

Other Requirements: Must possess the physical characteristics to perform the critical and important duties of the class, including sufficient strength to lift weight up to 50 pounds and sufficient stamina to walk six to eight miles per shift; be willing to work shifts, weekends, holidays on a regular basis, overtime as needed, and outdoors in a variety of weather conditions; be willing to work around chemicals used in a wastewater treatment process; be willing to work in dirty conditions and in and around wastewater sludge; may be required to be clean-shaven in order to wear respiratory protection equipment, as needed.

Disaster Service Worker
Employees of Union Sanitary District are, by State and Federal law, Disaster Service Workers. In the event of a declaration of emergency, any employee may be assigned activities which promote the protection of public health and safety or the preservation of lives and property either at the District or within the local, or your own community.

Approved by the Board of Directors:
Position status: Classified, Non-exempt (Technical, Specialist-level)

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
General Manager/ District Engineer

Karen W. Murphy
Attorney

DATE: February 2, 2016

MEMO TO: Board of Directors - Union Sanitary District

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

SUBJECT: Agenda Item No. 9 – Meeting of February 8, 2016
Consider Participation in the Annual "Science in the Park" Event to be Held October 1, 2016

Recommendation

Consider Participation in the Annual "Science in the Park" Event to be Held October 1, 2016

Background

Science in the Park started in 2011 with the goal to encourage people of all ages, interests, and backgrounds to explore science and unleash their curiosity. Over the past 3 events, Science in the Park has offered over 100 different interactive booths connecting the worlds of STEM (science, technology, engineering and mathematics) and attracted more than 5,000 people each year. This event is presented by Alameda County Supervisor Richard Valle's office.

Science in the Park will be on October 1, 2016, at the Alden E. Oliver Sports Park in Hayward. Science in the Park benefits the Hayward Area Recreation and Park District (H.A.R.D.) Children's Programs, the New Haven Schools Foundation, the Fremont Education Foundation, the Newark Educational Foundation, and the Hayward Education Foundation.

This event appears to be consistent with the District's outreach activities and promotion of the sciences. Thus, I believe it would be beneficial for the District to participate in this event with either a "Dr. Mae Jemison" sponsorship of $1,000 or a "Jane Goodall" sponsorship of $2,500; and an interactive booth staffed by USD personnel. The $1,000 and $2,500 sponsorships include the following:

<u>$1,000</u>

- Logo on website's sponsorship page with link to company website

- Booth at event

<u>$2,500</u>

- Company logo on all 2016 Science in the Park marketing material
- Logo on website's sponsorship page with link to company website
- Booth at event

Although the cost of the sponsorship and the staff time involved in the preparation of and staffing of the booth would be well within the General Manager's approval authority, I wanted to ensure that the Board was comfortable with the District participating in this event as it takes place outside our service boundaries.

Attachment: Science in the Park Information Packet

B O A R D O F S U P E R V I S O R S

RICHARD VALLE
Supervisor, Second District

Get Involved with Alameda County's Top Science Event of the Year!

Science in the Park started in 2011 with the goal to encourage people of all ages, interests and backgrounds to explore science, earth and heath and unleash their curiosity. Over the past 3 events Science in the Park has offered over 100 different interactive booths connecting the worlds of STEM and attracted more than 5,000 people each year.

Science in the Park is an opportunity for the whole family to learn more about science, technology, engineering and mathematics (STEM), in a fun, engaging setting. This free biennial event makes STEM compelling and accessible to children, families and the general public. The event includes interactive/hands-on activities, live animal demonstrations, an egg drop contest, and much more!

Science in the Park will be on October 1, 2016 at the Alden E. Oliver Sports Park in Hayward. This event promises to be fun for the whole family!

Science in the Park benefits the Hayward Area Recreation and Park District (H.A.R.D.) Children's Programs, the New Haven Schools Foundation, the Fremont Education Foundation, the Newark Educational Foundation, and the Hayward Education Foundation.

Sponsorship opportunities are now available for the 2016 festival. Help us expand our programs, services and promotional activities to deliver a great festival that attracts even more visitors. Join us in the effort to expand this fun festival, build our partnerships, and increase STEM learning amongst our youth. For more information about Science in the Park, please visit www.scienceinthepark.org, or contact our office at (510) 272-6692 or District2@acgov.org

We invite you to unleash your curiosity, discover your inner Einstein and become a supporter of Science in the Park!

Sincerely,

Supervisor Richard Valle
Alameda County Board of Supervisors, District 2

1221 OAK STREET SUITE 536 OAKLAND, CALIFORNIA 94612 510 272-6692 FAX 510 271-5115
24301 SOUTHLAND DRIVE SUITE 101 HAYWARD, CALIFORNIA 94545 510 259-1059 FAX 510 259-0860

SCIENCE IN THE PARK

Saturday, October 1, 2016 at the
Alden E. Oliver Sports Park in Hayward

Presented by Supervisor Richard Valle's Office and
Hayward Area Recreation and Park District (H.A.R.D.)

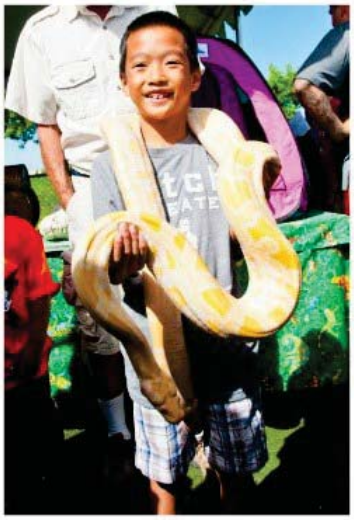
History

Science in the Park is a reawakening of the Annual Union City Science, Earth and Health Festival that started in 1997 under the leadership of Richard Valle. This collaborative free event was supported by the City of Union City, the New Haven Unified School District, the Union City Fire Department and the Union City Police Department. City residents brought their family and friends to James Logan High School for a day to explore educational exhibits, informational booths, live performances, interactive demonstrations and friendly competitions.

Throughout the 10 years, the Annual Union City Science, Earth and Health Event covered topics such as nutrition, robotics, animal wildlife, global warming and much more. Overall, the Union City Science, Earth and Health Festival created a legacy of excitingly safe, fun, and educational experiences for families and friends to explore.

In 2011, Tri-CED Community Recycling in partnership with the Hayward Area Recreation and Park District (H.A.R.D.) decided to bring back this successful event, but on an expanded scale. Aimed at reaching a broader audience, the event moved to Alden E. Oliver Sports Park and incorporated Hayward Unified School District, in addition to New Haven School District as in previous years.

In 2011, 2012, and 2014, Science in the Park succeeded in encouraging people of all ages, interests and backgrounds to explore science, earth and heath and unleash their curiosity. The events offered over 100 different interactive booths connecting the worlds of science, music, art, dance, food, health, and nature and attracted more than 5,000 people each year.



SCIENCE IN THE PARK

Saturday, October 1, 2016 at the
Alden E. Oliver Sports Park in Hayward

Presented by Supervisor Richard Valle's Office and
Hayward Area Recreation and Park District (H.A.R.D.)

Frequently Asked Questions

- **Who benefits from Science in the Park?**

  Science in the Park not only provides an opportunity to encourage children to be more interested by science, technology, engineering and mathematics (STEM) related topics, but also benefits the education foundations of Alameda County Supervisorial District 2. This includes Hayward Education Foundation, New Haven Schools Foundation, Newark Educational Foundation and Fremont Education Foundation. A donation is also made to Hayward Area Recreation and Park District's (HARD) Children's Programs.

- **Is Science in the Park only for STEM?**

  Science in the Park promotes STEM, as well as the environment, art, and health! In the past, we have had organizations come out and give free health screenings, free dental screenings, host art activities, as well as interactive activities promoting awareness of climate change.

- **How is Science in the Park funded?**

  Science in the Park has previously been funded through the generosity of companies and non-profits around Alameda County. Through funds raised, the event is able to be at no cost to all participants and attendees. All contributions donated to Science in the Park are used to supply day of materials, as well as, support the education foundations around District 2.

- **How can I sponsor?**

  Thanks to generous donations, Science in the Park has been an exploration of STEM for over 5,000 children and families. If you or your organization would like to be a sponsor, please check out the sponsor levels and form on the following pages. If you have any questions, please contact the office at (510) 272-6692 or District2@agov.org.

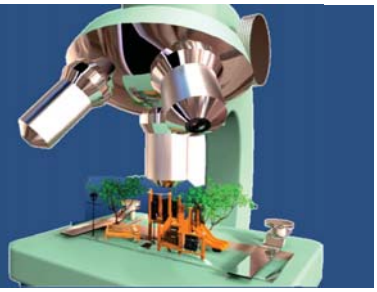
- **How can I help?**

  There are many ways to support Science in the Park. The event is led by generous supporters, helpful volunteers and interested scientists! All interested parties are encouraged to call the District 2 office to find ways you can help. Contact the office at (510) 272-6692 or District2@agov.org.

SCIENCE IN THE PARK

Saturday, October 1, 2016 at the
Alden E. Oliver Sports Park in Hayward

Presented by Supervisor Richard Valle's Office and
Hayward Area Recreation and Park District (H.A.R.D.)



Become a Sponsor of Science in the Park

Science in the Park is organized by the Alameda County Board of Supervisors, District 2 Office and is funded through corporate sponsorships and private donations. Beneficiaries of the festival are the Hayward Area Recreation and Park District Children's Programs, New Haven Schools Foundation, Hayward Education Foundation, Fremont Education Foundation, and Newark Educational Foundation. There are a variety of sponsorship opportunities to choose from, all designed to increase awareness of your organization to the 5,000 plus attendees at the festival.

Albert Einstein Sponsorship – $10,000 +

- ★ Mention of company name during opening and closing ceremonies
- ★ Company logo on all 2016 Science in the Park marketing material
- ★ Premier position of logo on website's homepage and sponsorship page with link to company website
- ★ Booth at event (must include interactive activity or can banner with company logo on a Teacher booth)

Sir Isaac Newton Sponsorship – $5,000

- ★ Company logo on all 2016 Science in the Park marketing material
- ★ Premier position of logo on website's homepage and sponsorship page with link to company website
- ★ Booth at event (must include interactive activity or can banner with company logo on a Teacher booth)

Jane Goodall Sponsorship – $2,500

- ★ Company logo on all 2016 Science in the Park marketing material
- ★ Logo on website's sponsorship page with link to company website
- ★ Booth at event (must include interactive activity or can banner with company logo on a Teacher booth)

Dr. Mae Jemison Sponsorship – $1,000

- ★ Logo on website's sponsorship page with link to company website
- ★ Booth at event (must include interactive activity or can banner with company logo on a Teacher booth)

Teacher Sponsorship – $500

The Teacher Sponsorship is a sponsorship level for companies to contribute to the event, but do not have the staff to spare for a booth or is not involved in the science, earth and health industries. By sponsoring a Teacher, you are helping to pay for the teacher's time and materials needed for the teacher to produce a fun, interactive activity for his/her booth during the event. Sponsorship also includes:

- ★ Mention of company name on website sponsorship page with link to company website
- ★ Banner with company logo on a Teacher booth

SCIENCE IN THE PARK

Saturday, October 1, 2016 at the
Alden E. Oliver Sports Park in Hayward

Presented by Supervisor Richard Valle's Office and
Hayward Area Recreation and Park District (H.A.R.D.)

2016 Sponsorship Form

This initiative would not be possible without the generous support of our sponsors. With your sponsorship, Science in the Park will continue to change the lives of youth, parents, teachers, and the general public by providing countless opportunities for the community to experience this free, fun and exciting educational event.

❑ *YES! I would like to be part of the fun & support Science in the Park!*

Company or Organization/Group Name

Contact Person

Mailing Address

City/State/Zip

Phone # of Company Contact

E-mail Address

Sponsorship Levels

- ❑ Albert Einstein $10,000
- ❑ Sir Isaac Newton $5,000
- ❑ Jane Goodall $2,500
- ❑ Dr. Mae Jemison $1,000
- ❑ Teacher $500
- ❑ Other _____

In-Kind Donation

We would equally appreciate in-kind donations such as water bottles, prize booth giveaways, activity materials, etc.

❑ Please specify:

_____

_____

_____

_____

_____

Please make checks payable to:
County of Alameda
1221 Oak Street
Oakland, CA 94612

Signature

Date

Please mail form to:
Supervisor Richard Valle's Office
c/o Science in the Park
1221 Oak Street, Suite 536
Oakland, CA 94612

For more information, please contact:
Supervisor Richard Valle's Office
Tel: (510) 272-6692 Fax: (510) 271-5115
Nancy.Sa@acgov.org

SCIENCE IN THE PARK

Saturday, October 1, 2016 at the
Alden E. Oliver Sports Park in Hayward

Presented by Supervisor Richard Valle's Office and
Hayward Area Recreation and Park District (H.A.R.D.)

2016 Participation Form

We are looking for individuals, teachers, companies and organizations to provide hands-on activities and demonstrations to promote sciences and health. This a family friendly free event.
Participants are not allowed to sell items or services.

Company or Organization/Group Name

Contact Person

Mailing Address

City/State/Zip

Phone # of Company Contact E-mail Address

#of booths
1 booth = 1 10' table & 2 chairs

Availability and quantity of tables and chairs on a first serve basis.

Description of Activity:

Signature Date

Forms must be submitted by Friday, September 2, 2016

Please mail form to:
Supervisor Richard Valle's Office
c/o Science in the Park
1221 Oak Street, Suite 536
Oakland, CA 94612

For more information, please contact:
Supervisor Richard Valle's Office
Tel: (510) 272-6692 Fax: (510) 271-5115
Nancy.Sa@acgov.org

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Jennifer Toy

Officers
Paul R. Eldredge
General Manager/
District Engineer

Karen W. Murphy
Attorney

DATE: February 1, 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
Andrew C. Baile, Assistant Engineer

SUBJECT: Agenda Item No. 10 - Meeting of February 8, 2016
Consider a Resolution to Accept the Construction of the Miscellaneous Sanitary Sewer Sport Repairs Project - Phase VI from Cratus, Inc. and Authorize the Recordation of a Notice of Completion

Recommendation

Staff recommends the Board consider a resolution to accept the construction of the Miscellaneous Sanitary Sewer Spot Repairs Project – Phase VI from Cratus, Inc. and authorize the recordation of a Notice of Completion.

Background

On June 22, 2015, the Board awarded the construction contract for the Miscellaneous Sanitary Sewer Spot Repairs Project – Phase VI in the amount of $324,000 to Cratus, Inc. The purpose of the Project is to repair existing gravity sewer structural defects, such as cracks and sags, that have been identified through the District's routine television inspection program. Due to the location, difficult soil conditions and/or depth of these sewers, staff determined the repair work to be done by a contractor. The Project was designed in-house by District Staff. The locations of the repairs are shown in Figure 1.

Construction Contract

Staff issued the Notice to Proceed to Cratus on July 6, 2015. The 120-day project was scheduled to be completed on November 2, 2015. Cratus substantially completed the Project on November 6, 2015. Construction management and inspection services were performed by staff and The Covello Group provided as-needed inspection services for a portion of the work.

Change Orders

The Project included three (3) change orders at a total credit of ($35,412.15), which is approximately -11% of the original contract amount. All negotiations have been complete and the change orders executed. A description of each change order follows.

Change Order No. 1 was for a credit of ($262.15) for reimbursement of fees paid by the District to the City of Union City when the City's Public Works crew had to repair failed temporary pavement installed by Cratus on Alvarado-Niles Road. Since this is a busy thoroughfare in Union City, the City's Public Works Department responded quickly to address the problem and invoiced the District for the crew's time.

Change Order No. 2 was for a credit of ($35,150) to delete Site No. 5 from the Project. The scope of work at this site, which was located at the intersection of Eggers Drive and Hastings Court in Fremont, included the replacement of thirty feet of the existing 12-inch diameter sewer main. However, the work required ACWD to relocate an existing asbestos concrete water main that was in close proximity of the sewer main repair. ACWD estimated between $50,000 and $60,000 to relocate a portion of their water main but staff found this too cost prohibitive. Staff decided to delete this site from the Project's scope and will address the cracked sewer main in a future lining project.

Change Order No. 3 was for no cost and provided a time extension of four calendar days to the Project's contract time. Cratus had performed additional utility potholing at Site No. 1 (Alvarado-Niles Road in Union City) and removal of unforeseen concrete encountered above the sewer main at Site No. 4 (Peralta Boulevard in Fremont). These efforts required additional time and the District issued a time extension of four calendar days to extend the Project's completion date from November 2, 2015 to November 6, 2015.

A summary of the change orders is shown in Table 1:

Table 1
Change Order Summary

No.	Description	Amount
1	City of Union City Public Works Street Division Repair Fees	($262.15)
2	Delete Site No. 5 from Project Scope	($35,150.00)
3	Contract Time Adjustment - Time extension of four calendar days.	$0.00
	Change Order Total (Approximately -11% of Contract Amount)	($35,412.15)

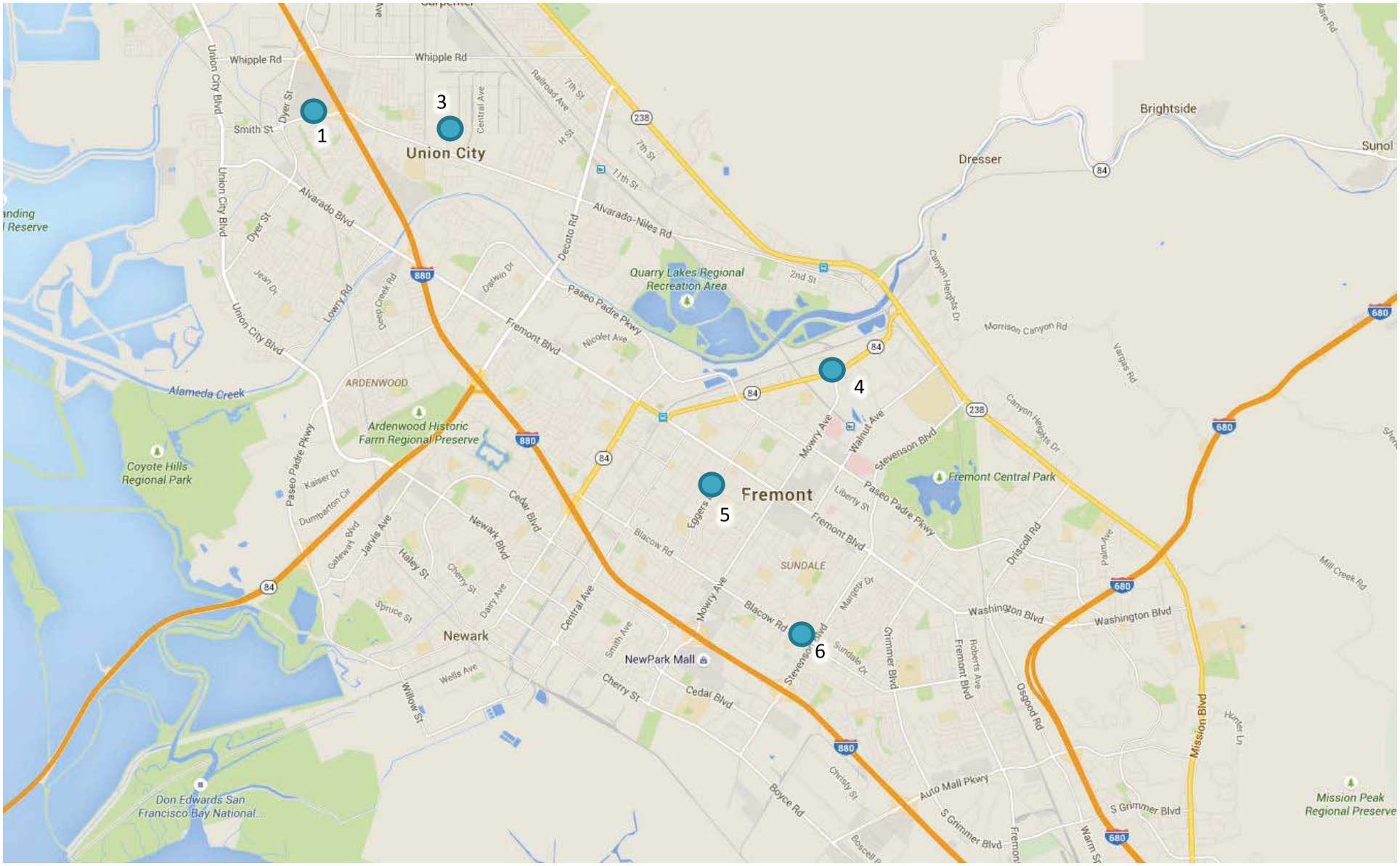
Cratus has completed all punchlist items and the District has assumed beneficial use of the Project.

Staff recommends the Board consider a resolution to accept the construction of the Miscellaneous Sanitary Sewer Spot Repairs Project – Phase VI from Cratus, Inc. and authorize the recordation of a Notice of Completion.

PRE/SEG/RC/ACB:ks

Attachments: Figure 1 – Location Map
Resolution
Notice of Completion

SITE ID	CITY	TITLE
1	UNION CITY	ALVARADO-NILES RD WEST OF UNION LANDING BLVD
3	UNION CITY	PACIFIC ST AT DOWE AVE
4	FREMONT	PERALTA BLVD AT MOWRY AVE
5	FREMONT	EGGERS DR BETWEEN EGGERS CT AND HASTINGS CT
6	FREMONT	BLACOW RD NORTHWEST OF STEVENSON BLVD



MISCELLANEOUS SANITARY SEWER SPOT REPAIRS PROJECT – PHASE VI

FIGURE 1 - SITE LOCATION MAP

RESOLUTION NO. ____

ACCEPT CONSTRUCTION OF THE
MISCELLANEOUS SANITARY SEWER
SPOT REPAIRS PROJECT – PHASE VI
FROM CRATUS, INC.
LOCATED IN UNION CITY, CALIFORNIA AND FREMONT, CALIFORNIA

RESOLVED: That the Board of Directors of the UNION SANITARY DISTRICT hereby accepts Miscellaneous Sanitary Sewer Spot Repairs Project – Phase VI from Cratus, Inc., effective February 8, 2016, and be it

FURTHER RESOLVED: That the Board of Directors of the UNION SANITARY DISTRICT authorize the General Manager/District Engineer, or his designee, to execute and record a "Notice of Completion" for the Project.

On motion duly made and seconded, this resolution was adopted by the following vote on February 8, 2016:

AYES:

NOES:

ABSENT:

ABSTAIN:

_____
JENNIFER TOY
President, Board of Directors
Union Sanitary District

Attest:

_____
PAT KITE
Secretary, Board of Directors
Union Sanitary District

RECORDING REQUESTED BY
AND WHEN RECORDED
RETURN TO:

Regina McEvoy
Union Sanitary District
5072 Benson Road
Union City, CA 94587

NO RECORDING FEE – PER GOVERNMENT CODE SECTIONS 6103 & 27283

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN BY UNION SANITARY DISTRICT, Alameda County, California, that the work hereinafter described, the contract for the construction of which was entered into on June 22, 2015 by said District and **CRATUS, INC.**, Contractor for the Project, **"MISCELLANEOUS SANITARY SEWER SPOT REPAIRS PROJECT – PHASE VI,"** substantially completed the Project on November 6, 2015 and accepted by said District on February 8, 2016.

The name and address of the owner is the **UNION SANITARY DISTRICT**, at 5072 Benson Road, Union City, CA 94587.

The estate or interest of the owner is: HOLDER OF SANITARY SEWER EASEMENTS AND LICENSES.

The descriptions of the sites where said work was performed and completed are as follows:

1. Site No. 1 – Westbound on Alvarado-Niles Road between Union Landing Road and Dyer Street in Union City, California.
2. Site No. 3 – Eastbound on Pacific Street east of Dowe Avenue in Union City, California.
3. Site No. 4 – Westbound on Peralta Boulevard near Mowry Avenue in Fremont, California.
4. Site No. 6 – Southbound on Blacow Road located northwest of Stevenson Boulevard in Fremont, California.

The undersigned declares under penalty of perjury that the foregoing is true and correct.

Executed on _____ at UNION CITY, CALIFORNIA.

_____
PAUL R. ELDREDGE, P.E.
GENERAL MANAGER/DISTRICT ENGINEER
UNION SANITARY DISTRICT

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
General Manager/
District Engineer

Karen W. Murphy
Attorney

DATE: February 1, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Sami E. Ghossain, Manager of Technical Services
Rollie R. Arbolante, Customer Service Coach

SUBJECT: Agenda Item No. 11 - Meeting of February 8, 2016
Consider a Resolution to Accept the Construction of the Newark Backyard Sanitary Sewer Relocation Project – Phase 2 from Ranger Pipelines, Inc. and Authorize Recordation of a Notice of Completion

Recommendation

Staff recommends the Board consider a resolution to accept the construction of the Newark Backyard Sanitary Sewer Relocation Project – Phase 2 from Ranger Pipelines, Inc. and authorize recordation of a Notice of Completion.

Background

On April 13, 2015, the Board awarded a construction contract to Ranger Pipelines, Inc. (Ranger) in the amount of $2,085,270 for the construction of the Newark Backyard Sanitary Sewer Relocation Project, Phase 2 (Project). The Project's purpose was to improve the existing sanitary sewer system northerly of the intersection of Dairy Avenue and Cherry Street for the area also known as the Flat Tops Area in the city of Newark. The existing sewers located in backyard easements are only 6 inches in diameter, with very flat slopes, and require frequent maintenance. Access for maintenance and inspection has also been very difficult due to the sewers' location in backyard easements.

The Newark Backyard Sanitary Sewer Relocation Project Phase 2 is the second phase of the three–phase project to relocate laterals and sewer mains in the Flat Tops area. Phase 2 included the relocation of 93 sanitary sewer laterals to new sanitary sewer mains constructed within the public

right-of-way on George Avenue, Jennifer Street, Deborah Street, Leone Street and parts of Zulmida Avenue and Noel Avenue. Please refer to the attached vicinity map.

The project was designed by West Yost & Associates, which completed the design in March, 2015.

Construction Contract

Staff issued the Notice to Proceed to Ranger Pipelines on May 11, 2015. The 150 day project was scheduled to be completed on October 7, 2015. Ranger Pipelines substantially completed the project on November 13, 2015. The Covello Group provided construction inspection services.

Change Orders

The project includes five (5) change orders at a total cost of $44,698, which is approximately 2.1% of the original contract amount. All negotiations have been completed and the change orders executed. A description of the significant change orders follows.

Change Order No. 3 - Additional Lateral Tie-in work

Contract Change Order No. 3 is in the amount of $30,161 and is for the additional work needed to locate and connect nine additional sanitary sewer laterals for properties along Cherry Street, George Avenue, Jennifer Street, Leone Street, Deborah Street and Noel Avenue that were discovered prior to sewer main pipe abandonment. While the contractor was in the process of abandoning the sewer main in backyard easements, sewer flow was still present in the sewer mains that required further investigation to ensure continuous service to each residence. Smoke testing of the sewers revealed a total of nine extra sewer lateral connections that needed to be reconnected to the new sewer. These laterals were not detected in television inspections of the sewer mains and were likely connected to other laterals. The properties associated with this additional work are:

- 36560 Cherry Street
- 36666 Cherry Street
- 36658 Cherry Street
- 6458 George Avenue
- 36557 Jennifer Street
- 36609 Leone Street
- 6325 Noel Avenue
- 36641 Jennifer Street
- 36635 Deborah St

These efforts required additional time and the District issued a time extension of 13 calendar days

Change Order No. 4 - Additional Work for the Leone St. Sag Repair

Contract Change Order No. 4 is in the amount of $39,026 and is for the additional work needed to remove and re-install approximately 140 lineal feet of 8-inch diameter sewer pipe due to a sag that was discovered during video inspection. The sag was located in an area with silty/sandy soils. The Contractor was responsible for correcting the sag. However, the Contractor was required to perform the sag repair utilizing a revised trench detail that added a significant amount of time and work to the repair. Staff negotiated the change order proposal from $68,000 to $39,026. These efforts required additional time and the District issued a time extension of 24 calendar days.

Change Order No. 5 Balancing Change Order

Contract Change Order No. 5 is a credit amount of $30,276 and reconciles Bid Item Quantities to Actual Installed Quantities.

The following is a breakdown of the bid item quantities and the actual installed quantities:

Bid Item	Description	Unit	Bid Qty	Actual Qty	Unit Cost	Change
2	8” Dia. SDR 26 SS Open Cut	LF	3175	3125	$222	($11,100)
3	8” Dia. C-900 Open Cut	LF	230	280	$260	$13,000
5	SS Lat. HDD Single Con.	EA	82	80	$10,000	($20,000)
6	SS Lat. HDD Multiple Con.	EA	6	8	$11,500	$23,000
19	Misc. Pavement Replacement	SF	5000	1367	$3.00	($10,899)
22	City of Newark Ench. Permit	Allow-ance	$30,000	$8,923	$30,000	($21,077)
23	Over Excavate. Install Rock Ballast	CY	80	0	$40	($3,200)
					Change Order Amount	($30,276)

A summary of all change orders is shown in Table 1:

Table 1
Change Order Summary

No.	Description	Amount
1	Delays associated with a water main leak	$4,025
2	Extra work to fabricate a non-standard manhole base	$1,762
3	Lateral Tie-in Additional Work	$30,161
4	Leone St. Mainline Sag Repair Additional Work	$39,026
5	Balancing Change Order	($30,276)
	Change Order Total (2.1% of Contract Amount)	**$44,698**

All punchlist work is complete and the District has assumed beneficial use of the Project.

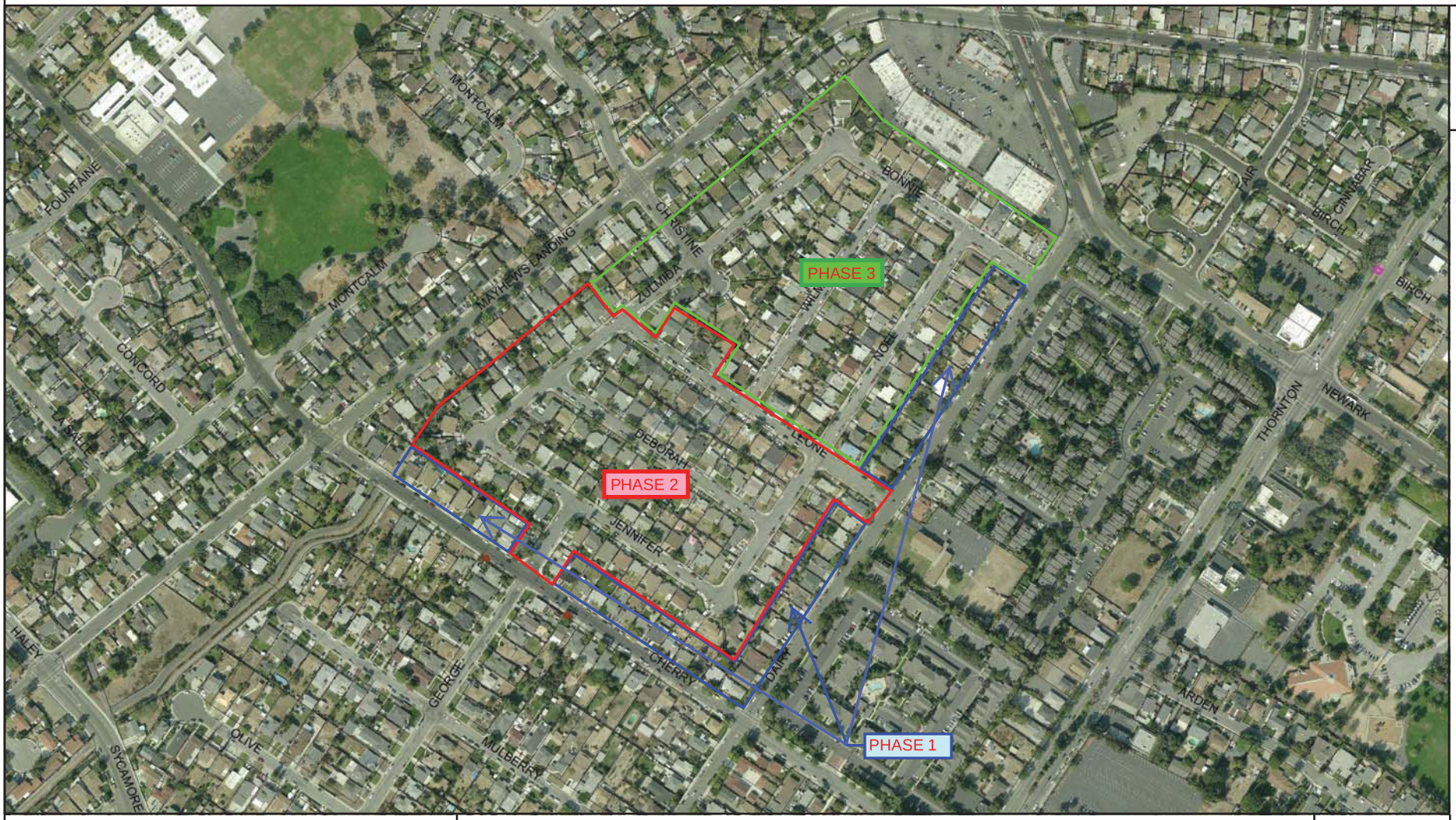
Staff recommends the Board consider a resolution to accept the construction of the Newark Backyard Sanitary Sewer Relocation Project – Phase 2 from Ranger Pipelines, Inc. by resolution, and authorize the recordation of a Notice of Completion.

PRE/SEG/RRA:ks

Attachments: Vicinity Map
Resolution
Notice of Completion

Newark Backyard SS Relocation - Phase 2

Vicinity Map



Site

Legend

- Sewer Sheet Pile History
- Sewer Manholes Historical
- Streets
- Parcels
- Lakes
- 2009 Aerial Photo

0 250 500ft

Printed: 4/1/2015 2:43:0

For USD use only

Disclaimer:
The information on this map is provided by Union Sanitary District (USD) for internal use only. Such information is derived from multiple sources which may not be current, be outside the control of USD, and may be of indeterminate accuracy. The information provided hereon may be inaccurate or out of date, and any person or entity who relies on said information for any purpose whatsoever does so solely at their own risk.

RESOLUTION NO. _____

**ACCEPT THE CONSTRUCTION OF THE
NEWARK BACKYARD SANITARY SEWER RELOCATION
PROJECT – PHASE 2
FROM RANGER PIPELINES, INC.
LOCATED IN THE CITY OF NEWARK, CALIFORNIA**

RESOLVED: That the Board of Directors of the UNION SANITARY DISTRICT that hereby accepts the Newark Backyard Sanitary Sewer Relocation Project – Phase 2 from Ranger Pipelines, Inc. effective February 8, 2016; and be it

FURTHER RESOLVED: That the Board of Directors of the UNION SANITARY DISTRICT authorize the General Manager/District Engineer, or his designee, to execute and record a "Notice of Completion" for the Project.

On motion duly made and seconded, this resolution was adopted by the following vote on February 8, 2016:

AYES:

NOES:

ABSENT:

ABSTAIN:

_____
JENNIFER TOY
President, Board of Directors
Union Sanitary District

Attest:

_____
PAT KITE
Secretary, Board of Directors
Union Sanitary District

RECORDING REQUESTED BY
AND WHEN RECORDED
RETURN TO:

Regina McEvoy
Union Sanitary District
5072 Benson Road
Union City, CA 94587

NO RECORDING FEE – PER GOVERNMENT CODE SECTIONS 6103 7 27283

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN BY UNION SANITARY DISTRICT, Alameda County, California, that the work hereinafter described, the contract for the construction of which was entered into April 13, 2015, by said District and **RANGER PIPELINES, INC.**, 1790 Yosemite Ave., San Francisco, CA 94124, Contractor for the Project, **NEWARK BACKYARD SANITARY SEWER RELOCATION PROJECT – PHASE 2,** located in the City of Newark, California**,** substantially completed the Project on November 13, 2015, and accepted by the District on February 8, 2016.

The name and address of the owner is **UNION SANITARY DISTRICT**, at 5072 Benson Road, Union City, CA 94587.

The estate or interest of the owner is: HOLDER OF SANITARY SEWER EASEMENTS AND LICENSES.

The description of the site where said work was performed and completed is approximately that portion of neighborhood within and/or adjacent to the area bounded by Leone Street, Zulmida Avenue, Jennifer Street, and Noel Avenue in the City of Newark, County of Alameda, State of California.

The undersigned declares under penalty of perjury that the foregoing is true and correct.

Executed on _____ at UNION CITY, CALIFORNIA.

_____
PAUL R. ELDREDGE, P.E.
GENERAL MANAGER/DISTRICT ENGINEER
UNION SANITARY DISTRICT

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
General Manager/
District Engineer

Karen W. Murphy
Attorney

DATE: February 1, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Sami E. Ghossain, Manager of Technical Services
Rollie Arbolante, Customer Service Team Coach

SUBJECT: Agenda Item No. 12 - Meeting of February 8, 2016
Consider a Resolution to Quitclaim Portions of Sanitary Sewer Easements Located in Tract 1188, Tract 1276, and Tract 1296 in the City of Newark in Conjunction with the Newark Backyard Sanitary Sewer Relocation Project – Phase 2

Recommendation

Staff recommends the Board consider a resolution to quitclaim portions of six-foot wide sanitary sewer easements located in Tract 1188, Tract 1276 and Tract 1296 in the city of Newark, associated with the completion of the Newark Backyard Sanitary Sewer Relocation Project – Phase 2.

Background

Single family homes in Tract 1188, Tract 1276 and Tract 1296, located in the Flat Tops area in the city of Newark were constructed in the early 1950's. To provide sanitary sewer service to these homes, six-inch sanitary sewer mains for the tracts were installed in backyards and side yards within sewer easements granted to the District. The Newark Backyard Sanitary Sewer Relocation Project - Phase 1 and 2 relocated the sewer laterals from the backyard sewer mains to new sewer mains located in the streets fronting the homes. See attached vicinity map showing the project phases.

A total of 126 sewer laterals have been relocated as part of Phase 1 and Phase 2 of the Newark Backyard Sanitary Sewer Relocation Project. The third and final phase of the Project will relocate

80 backyard sewer laterals. Now that the sewer laterals installed under Phase 1 and 2 of the Project are being served by the new sewer mains within the public right-of-way, the existing backyard sewer mains have been abandoned and their corresponding easements are ready to be quitclaimed. Similarly, additional easements will be recommended to be quitclaimed when the construction of Phase 3 of the project is completed.

District Staff has reviewed the plat map and legal description of the easements and recommends the Board quitclaim the easements by adoption of resolution.

PRE/SEG/RA/ADB:ks

Attachments: Vicinity Map
Exhibits A, B, C and D - Plat Maps and Legal Descriptions
Resolution
Quitclaim Deed

EASEMENT QUITCLAIM TRACTS 1188, 1276 AND 1296

VICINITY MAP

Site

Legend

- Streets
- Parcels
- Lakes
- 2014 Aerial Photo

0 200 400ft

Printed: 12/15/2015 8:4

For USD use only

Disclaimer:
The information on this map is provided by Union Sanitary District (USD) for internal use only. Such information is derived from multiple sources which may not be current, be outside the control of USD, and may be of indeterminate accuracy. The information provided hereon may be inaccurate or out of date, and any person or entity who relies on said information for any purpose whatsoever does so solely at their own risk.

EXHIBIT A

LEGAL DESCRIPTION

QUITCLAIM OF EXISTING SANITARY SEWER EASEMENTS

LANDS SITUATED WITHIN THE CITY OF NEWARK, ALAMEDA COUNTY, CALIFORNIA DESCRIBED AS FOLLOWS:

BEING PORTIONS OF TRACT 1188 AS SAID TRACT WAS RECORDED ON JANUARY 30, 1953 IN BOOK 33 OF MAPS AT PAGE 50, OFFICIAL RECORDS OF ALAMEDA COUNTY AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THE 6 FOOT WIDE SANITARY SEWER EASEMENTS WITHIN THE FOLLOWING LOTS:

LOT 1, BLOCK A – 6475 GEORGE AVENUE

LOT 1, BLOCK B – 6474 GEORGE AVENUE

LOT 2, BLOCK B – 36602 CHERRY STREET

LOT 3, BLOCK B – 36610 CHERRY STREET

LOT 4, BLOCK B – 36618 CHERRY STREET

LOT 5, BLOCK B – 36626 CHERRY STREET

LOT 6, BLOCK B – 36634 CHERRY STREET

LOT 7, BLOCK B – 36642 CHERRY STREET

LOT 8, BLOCK B – 36650 CHERRY STREET

LOT 9, BLOCK B – 36658 CHERRY STREET

LOT 10, BLOCK B – 36666 CHERRY STREET

LOT 11, BLOCK B – 36674 CHERRY STREET

LOT 12, BLOCK B – 36682 CHERRY STREET

LOT 17, BLOCK B – 6375 DAIRY AVENUE

LOT 18, BLOCK B – 6367 DAIRY AVENUE

LOT 19, BLOCK B – 6359 DAIRY AVENUE

LOT 20, BLOCK B – 6351 DAIRY AVENUE

LOT 21, BLOCK B – 6343 DAIRY AVENUE

LOT 22, BLOCK B – 6335 DAIRY AVENUE

LOT 23, BLOCK B – 6327 DAIRY AVENUE

LOT 24, BLOCK B – 6319 DAIRY AVENUE

LOT 25, BLOCK B – 36671 LEONE STREET

EXHIBIT A

LEGAL DESCRIPTION CONTINUED

QUITCLAIM OF EXISTING SANITARY SEWER EASEMENTS

LOT 27, BLOCK B – 6316 NOEL AVENUE

LOT 34, BLOCK B – 6372 NOEL AVENUE

LOT 1, BLOCK C – 36590 JENNIFER STREET

LOT 2, BLOCK C – 36598 JENNIFER STREET

LOT 3, BLOCK C – 36606 JENNIFER STREET

LOT 4, BLOCK C – 36614 JENNIFER STREET

LOT 5, BLOCK C- 36622 JENNIFER STREET

LOT 6, BLOCK C- 36630 JENNIFER STREET

LOT 7, BLOCK C- 36638 JENNIFER STREET

LOT 8, BLOCK C – 36646 JENNIFER STREET

LOT 9, BLOCK C – 36654 JENNIFER STREET

LOT 10, BLOCK C – 36662 JENNIFER STREET

LOT 11, BLOCK C - 6365 NOEL AVENUE

LOT 1, BLOCK D – 36610 DEBORAH STREET

LOT 2, BLOCK D – 36618 DEBORAH STREET

LOT 3, BLOCK D – 36626 DEBORAH STREET

LOT 4, BLOCK D – 36634 DEBORAH STREET

LOT 5, BLOCK D – 36642 DEBORAH STREET

LOT 6, BLOCK D – 36650 DEBORAH STREET

LOT 7, BLOCK D – 6325 NOEL AVENUE

LOT 14, BLOCK B – 6461 DAIRY AVENUE, AS SAID 6 FOOT WIDE SANITARY SEWER EASEMENT IS DESCRIBED IN THE GRANT OF EASEMENT RECORDED JUNE 14, 1982, INSTRUMENT 82-104406, ALAMEDA COUNTY RECORDS.

DESCRIPTION PREPARED BY:

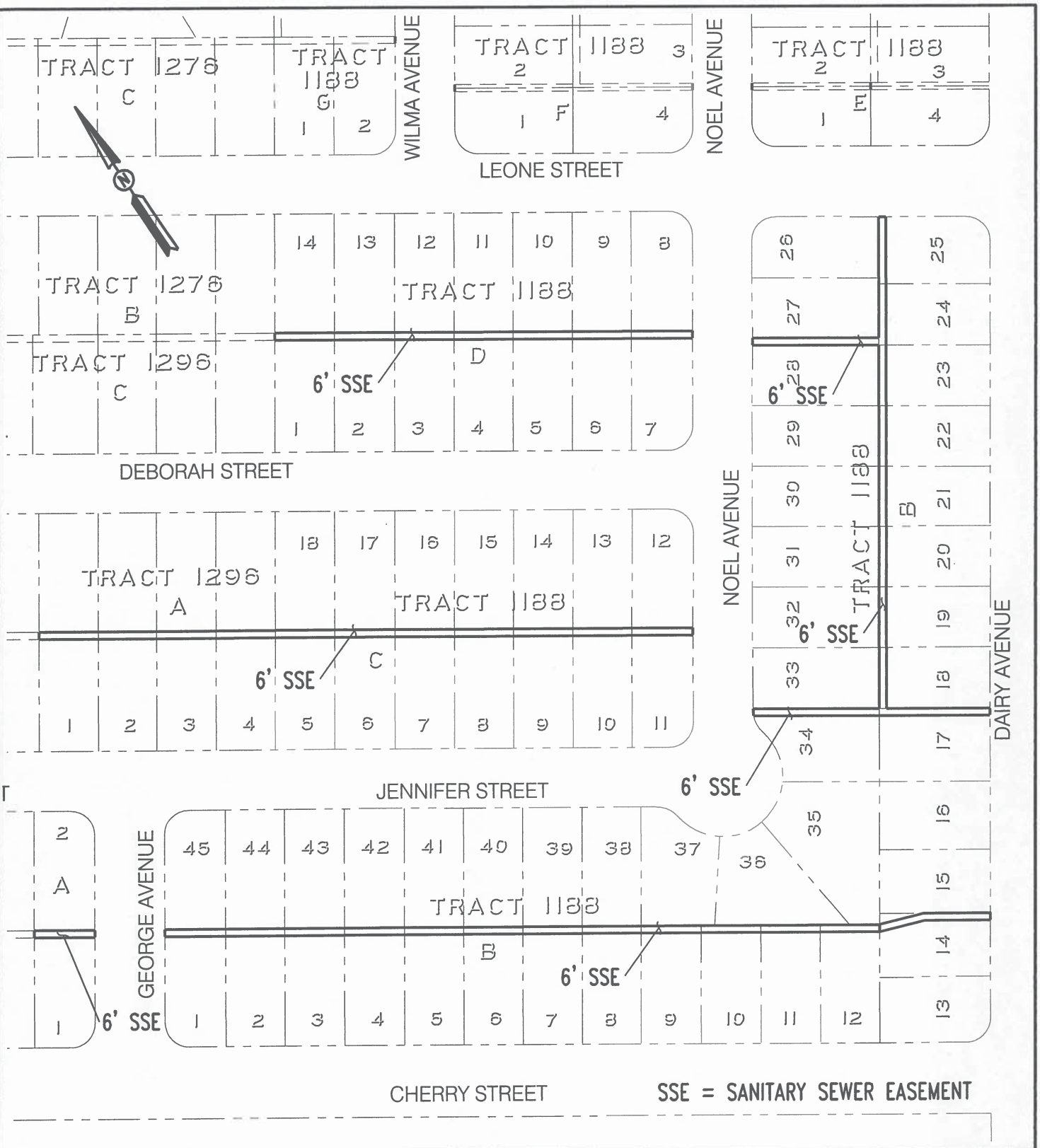
12/15/15

KENNETH P. MOORE, L.S. 4918 DATE

LICENSE EXPIRES 12/30/16

JOB NO. 949-007-02

P:\PROJECT\949 West Yost\949-007 Easement Quitclaims\ TRACT 1188 EXHIBIT A.docx



WILSEY HAM

3130 La Selva Street, Suite 100 San Mateo, CA 94403 Phone 650-349-2151 Fax 650-345-4921

LICENSED LAND SURVEYOR
KENNETH P. MOORE
No. 4918
Exp. 12/31/2016
STATE OF CALIFORNIA

EXHIBIT B
PLAT TO ACCOMPANY LEGAL DESCRIPTION

TRACT 1188
QUITCLAIM EXISTING SANITARY SEWER EASEMENTS

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

JOB. NO. 949-007-02

SHEET 3 OF 3

SCALE: NONE

DATE: 12-14-15

T:\949-West Yost\949-007 UNION DISTRICT NEWARK SEWER RELOCATION\Survey\Master Survey Drawings\Boundary Drawings\TR 1188 EASEMENT PLAT.dwg 12-14-15 11:01:35 AM phild

EXHIBIT C

LEGAL DESCRIPTION

QUITCLAIM OF EXISTING SANITARY SEWER EASEMENTS

LANDS SITUATED WITHIN THE CITY OF NEWARK, ALAMEDA COUNTY, CALIFORNIA DESCRIBED AS FOLLOWS:

BEING PORTIONS OF TRACT 1296 AS SAID TRACT WAS RECORDED ON AUGUST 19, 1953 IN BOOK 34 OF MAPS AT PAGE 15, OFFICIAL RECORDS OF ALAMEDA COUNTY AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THE 6 FOOT WIDE SANITARY SEWER EASEMENTS WITHIN THE FOLLOWING LOTS:

LOT 1, BLOCK A – 36582 JENNIFER STREET

LOT 2, BLOCK A – 36574 JENNIFER STREET

LOT 3, BLOCK A – 36566 JENNIFER STREET

LOT 4, BLOCK A – 6368 ZULMIDA AVENUE

LOT 1, BLOCK B – 36572 CHERRY STREET

LOT 2, BLOCK B – 36566 CHERRY STREET

LOT 3, BLOCK B – 36560 CHERRY STREET

LOT 4, BLOCK B – 36548 CHERRY STREET

LOT 5, BLOCK B – 36542 CHERRY STREET

LOT 6, BLOCK B – 36536 CHERRY STREET, AND AS SAID 6 FOOT WIDE SANITARY SEWER EASEMENT WAS GRANTED IN TRACT 1276 FILED AUGUST 19, 1953 IN BOOK 33 PAGE 97, ALAMEDA COUNTY RECORDS

LOT 7, BLOCK B – 36530 CHERRY STREET

SAID 6 FOOT WIDE SANITARY SEWER EASEMENTS WERE GRANTED IN THE FOLLOWING LOTS IN TRACT 1276 FILED AUGUST 19, 1953 IN BOOK 33 PAGE 97, ALAMEDA COUNTY RECORDS:

LOT 32, BLOCK B – 36541 JENNIFER STREET

LOT 1, BLOCK C – 6328 ZULMIDA AVENUE,

LOT 2, BLOCK C – 36570 DEBORAH STREET

LOT 3, BLOCK C – 36578 DEBORAH STREET

LOT 4, BLOCK C – 36586 DEBORAH STREET

LOT 5, BLOCK C – 36594 DEBORAH STREET,

LOT 6, BLOCK C – 36602 DEBORAH STREET,

DESCRIPTION PREPARED BY:

12/15/15

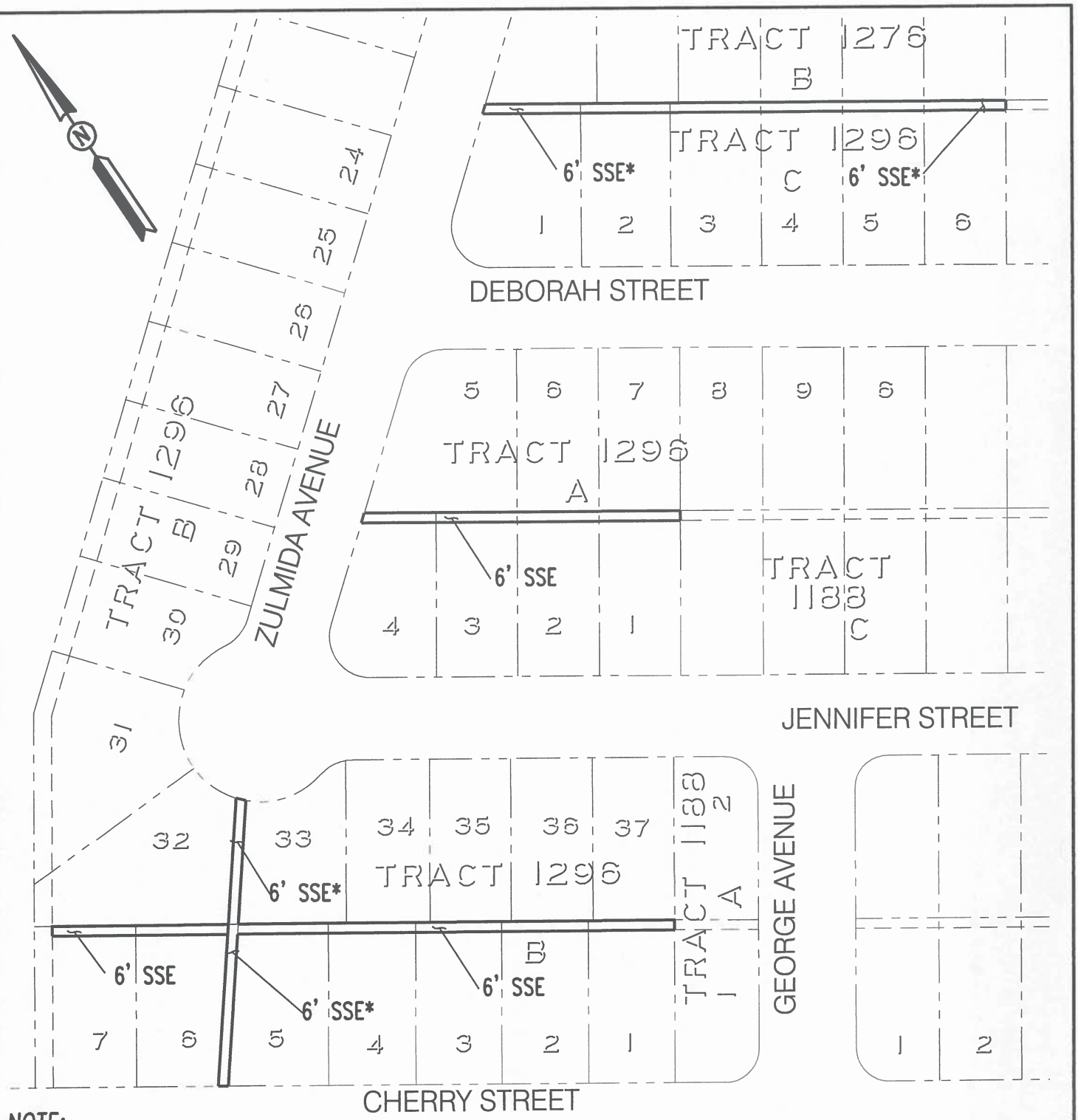
KENNETH P. MOORE, L.S. 4918 DATE

LICENSE EXPIRES 12/30/16

JOB NO. 949-007-02

SHEET 1

P:\PROJECT\949 West Yost\949-007 Easement Quitclaims\ TRACT 1296 EXHIBIT C.docx



NOTE:
*6' SSE IN LOTS 6 & 32, BLOCK B AND LOTS 1 THRU 6, BLOCK C WERE GRANTED IN TRACT 1276, BK. 33 OF MAPS AT PAGE 96.

SSE = SANITARY SEWER EASEMENT

WILSEY HAM
3130 La Selva Street, Suite 100 San Mateo, CA 94403 Phone 650-349-2151 Fax 650-345-4921

LICENSED LAND SURVEYOR
KENNETH P. MOORE
No. 4918
Exp. 12/31/2016
STATE OF CALIFORNIA

EXHIBIT D
PLAT TO ACCOMPANY LEGAL DESCRIPTION

TRACT 1296
QUITCLAIM EXISTING SANITARY SEWER EASEMENTS

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

JOB. NO. 949-007-02

SHEET 2 OF 2

SCALE: NONE

DATE: 12-14-15

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RESOLUTION NO. _____

QUITCLAIM PORTIONS OF 6-FOOT WIDE SANITARY SEWER EASEMENTS IN TRACT 1188, TRACT 1276, AND TRACT 1296 LOCATED IN THE CITY OF NEWARK, CALIFORNIA, IN CONJUNCTION WITH THE NEWARK BACKYARD SANITARY SEWER RELOCATION PROJECT – PHASE 2

RESOLVED: That the Board of Directors of the UNION SANITARY DISTRICT hereby quitclaims its interest in portions of the 6-foot wide sanitary sewer easements in Tract 1188, Tract 1276 and Tract 1296 located in the city of Newark and as described by the legal description and plat map attached as Exhibit A, Exhibit B, Exhibit C and Exhibit D.

On motion duly made and seconded, this resolution was adopted by the following vote on February 8, 2016:

AYES:

NOES:

ABSENT:

ABSTAIN:

_____
JENNIFER TOY
President, Board of Directors
Union Sanitary District

Attest:

_____
PAT KITE
Secretary, Board of Directors
Union Sanitary District

RECORDING REQUESTED BY
AND WHEN RECORDED
RETURN TO:

Regina McEvoy
Union Sanitary District
5072 Benson Road
Union City, CA 94587

NO RECORDING FEE – PER GOVERNMENT CODE SECTIONS 6103 & 27283

QUITCLAIM DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, UNION SANITARY DISTRICT, a public sanitary district, does hereby REMISE, RELEASE AND QUITCLAIM real property in the City of Newark, County of Alameda, state of California, described as follows:

Portions of the 6-foot wide sanitary sewer easement located in Tract 1188, Tract 1276 and Tract 1296 located in the City of Newark and as described by the legal description and plat map attached as Exhibit A, Exhibit B, Exhibit C and Exhibit D.

Dated this 8th day of February 2016.

_____
JENNIFER TOY
President, Board of Directors
Union Sanitary District

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
General Manager/
District Engineer

Karen W. Murphy
Attorney

DATE: February 1, 2016

MEMO TO: Board of Directors - Union Sanitary District

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

SUBJECT: Agenda Item No. 13 – Meeting of February 8, 2016
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

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 location map. The sinkhole was amplified by a subsequent water main break, which was repaired by Alameda County Water District on the same day. Union Sanitary District's 20-foot deep, 33-inch pipeline and manhole located in the intersection were inspected and found to be damaged.

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

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

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

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

Update on the Alvarado Boulevard Sewer Main Repairs

Trunk Sewer Repair

Efforts to control the high groundwater level and unstable soils were unsuccessful and a trenchless repair 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 six phases envisioned for this repair work are as follows:

> *Phase 1 – PG&E (Complete):* On December 23, 2015, 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 28, 2015, McGuire & Hester mobilized to begin Phase 2 work. First, seventy (70) feet of Alameda County Water District's (ACWD's) water line which was in conflict with the shoring plan was removed for the duration of the work; it will be replaced once the final repairs are complete. Sheet pile installation around the excavation area then began on January 4, 2016, and was completed on January 8, 2016. The sheet pile installation was followed by jet grouting, a process during which grout is injected by pressure into the soils surrounding the sheet piles to seal up gaps and prevent water intrusion into the shaft. Jet grouting work began on January 12, 2016, and was completed on January 29, 2016. The jet grouting was followed by excavation of the shaft itself, which began on February 1, 2016, and is currently still in progress.

Phase 3 – Sewer Repair: Once the excavation 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 likely 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 late April, 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 requested help directing traffic at the school entrance near Fredi St. and Horner St. during the street closure, and staff has worked with the Union City Police Dept. and McGuire & Hester to provide 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 continue to provide daily monitoring of the collection system upstream of the overflow pipe to prevent sanitary sewer overflows, of which none have been reported. Additionally, Collection Services staff will also continue chemical dosing of the sewer mains upstream of the sinkhole area on a 3-week schedule to control odors. Finally, Collection Services staff is planning to pump down and clean surcharged sewers upstream of the overflow pipe, and has already installed odor absorbing, activated carbon canisters in a number of select manholes.

Public Information

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

A CMS (changeable message sign) traffic board, as well as other traffic signs, remain on Alvarado Blvd. notifying motorists of the shutdown of westbound Alvarado Blvd. Additionally, flyers were distributed on December 23, 2015, to the businesses at Alvarado Blvd. and Fair Ranch Rd 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. Furthermore, 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.

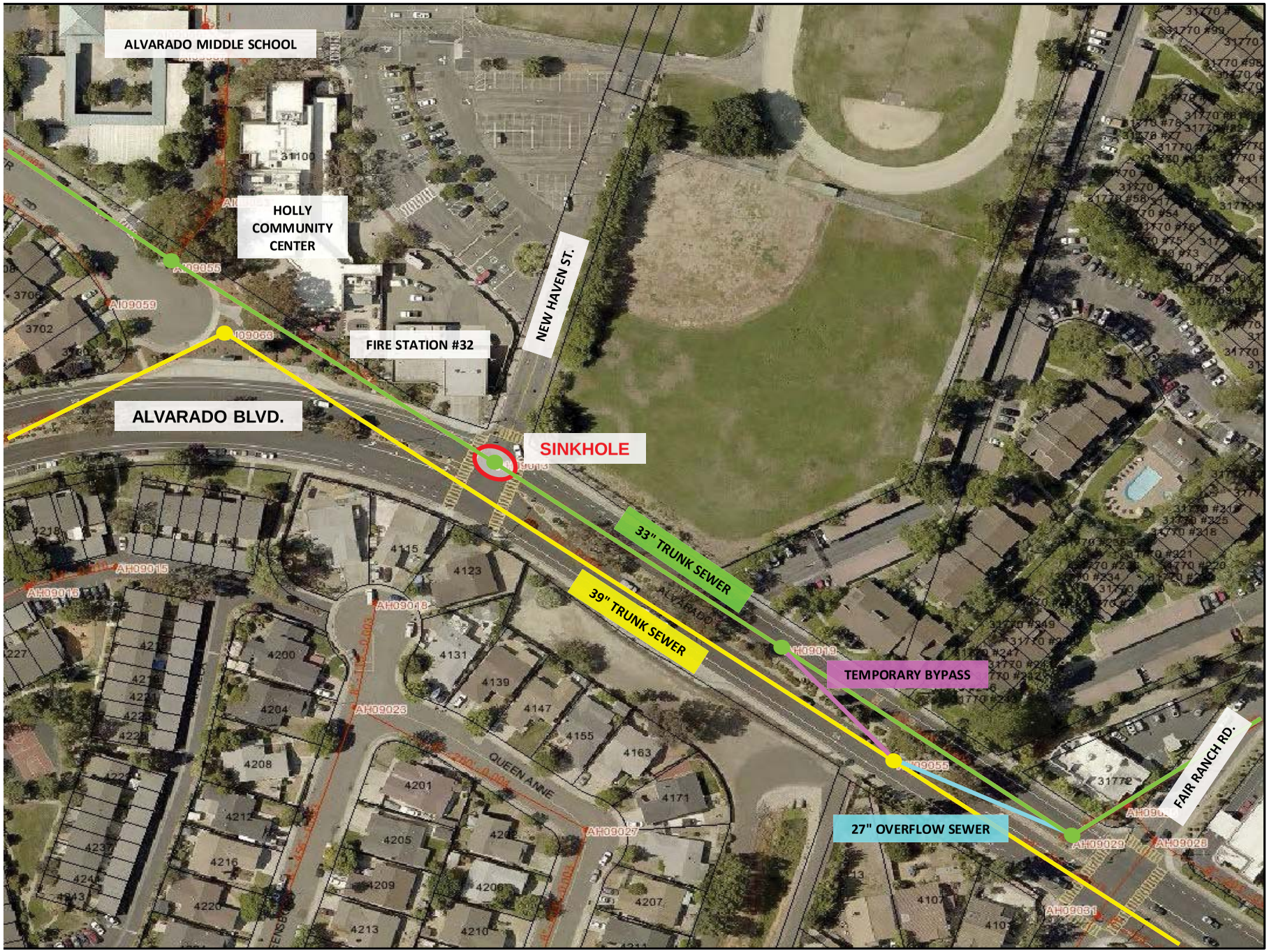
Staff will continue to bring a similar item to the Board until the emergency is terminated.

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 29, 2016

MEMO TO: Board of Directors - Union Sanitary District

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

SUBJECT: Agenda Item No. 14 - Meeting of February 8, 2016
Discuss and Provide Direction Regarding Request for Social Media Strategy from Director Lathi

Recommendation

Board to discuss and provide direction to staff regarding a District social media strategy, as requested to be placed on a future agenda by Director Lathi.

Background

At the January 11, 2016 Board meeting, Director Lathi requested that a staff report be placed on a future agenda to discuss a social media strategy for the District.

This staff report is intended to provide Director Lathi the opportunity to describe in more detail the aforementioned request, and for the Board to discuss and provide direction to staff accordingly.

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 29, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Karen W. Murphy, General Counsel

SUBJECT: Agenda Item No. 15 - Meeting of February 8, 2016
Discuss and Provide Direction Regarding Request for General Manager Mid-Year Check-Ins from Director Lathi

Recommendation

Board to discuss and provide direction to staff regarding General Manager mid-year check-ins, as requested to be placed on a future agenda by Director Lathi.

Background

At the January 11, 2016 Board meeting, Director Lathi requested that a staff report be placed on a future agenda to discuss General Manager mid-year check-ins, which were recommended by a webinar in which she participated.

This staff report is intended to provide Director Lathi the opportunity to describe in more detail the request, and for the Board to discuss and provide direction to staff.

UNION SANITARY DISTRICT
CHECK REGISTER
1/16/2016-01/29/2016

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
160018	1/28/2016	2980	EAST BAY DISCHARGERS AUTHORITY	O&M ASSESSMENT, JAN-MAR 2016	$297,497.96	$297,497.96
160025	1/28/2016	800394.17	GSE CONSTRUCTION CO INC	THICKENER CONTROL BLDG IMPROV PHASE II	$183,177.10	$183,177.10
160049	1/28/2016	30103800	SYNAGRO WEST LLC	DECEMBER 2015 BIOSOLIDS DISPOSAL	$61,078.10	$61,078.10
159979	1/21/2016	35655	INFOR PUBLIC SECTOR, INC	INFOR MOBILE APP LICENSES	$41,472.00	$41,472.00
160059	1/28/2016	2028830	WEST YOST ASSOCIATES	NEWARK BACKYARD SS RELOCATION - PHASE 3	$12,081.00	$39,833.78
	1/28/2016	2028834		SLUDGE DEGRITTER SYSTEM	$7,761.00	
	1/28/2016	2028832		CS PREVENTATIVE MAINTENANCE PROGRAM EVALUATION	$5,035.78	
	1/28/2016	2028915		ALVARADO-NILES ROAD SS REHABILITATION	$3,782.00	
	1/28/2016	2028829		NEWARK BACKYARD SS RELOCATION - PHASE 2	$549.50	
	1/28/2016	2028831		PINE STREET EASEMENT	$10,624.50	
159984	1/21/2016	013720160106	PACIFIC GAS AND ELECTRIC	SERV TO 01/05/16 BOYCE RD PS	$1,841.79	$37,422.18
	1/21/2016	140120160108		SERV TO 01/04/16 IRVINGTON PS	$27.46	
	1/21/2016	170120160107		SERV TO 12/20/15 PLANT	$35,552.93	
160015	1/28/2016	201303520	COVELLO GROUP INC	THICKENER CONROL BUILDING IMPROVEMENTS PHASE II	$33,771.47	$33,771.47
159963	1/21/2016	196272	BURKE, WILLIAMS & SORENSON LLP	GENERAL LEGAL - NOVEMBER 2015	$30,563.40	$31,907.60
	1/21/2016	196271		GENERAL LEGAL/CIP - NOVEMBER 2015	$1,344.20	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
160009	1/28/2016	28381	CALIFORNIA WATER TECHNOLOGIES	42,520 LBS FERROUS CHLORIDE	$5,029.65	$19,884.55
	1/28/2016	28422		42,280 LBS FERROUS CHLORIDE	$4,979.80	
	1/28/2016	28410		42,320 LBS FERROUS CHLORIDE	$4,805.52	
	1/28/2016	28369		44,460 LBS FERROUS CHLORIDE	$5,069.58	
160034	1/28/2016	12284	LOOKINGPOINT INC	MONTHLY PREMIER SERVICE - DEC 2015	$500.00	$14,656.75
	1/28/2016	12246		PHONE SYSTEM REPLACEMENT	$14,156.75	
160032	1/28/2016	11015168	KRONOS INC	KRONOS CONFIGURATION & SUPPORT	$270.00	$14,070.00
	1/28/2016	11016099		ANNUAL CLOUD HOSTING SERVICES 11/13/15 TO 011/12/16	$13,800.00	
159974	1/21/2016	93073281	ESRI INC	ARCGIS SERVER	$12,650.00	$12,650.00
160056	1/28/2016	32805	VALLEY OIL COMPANY	639 GALS MOBIL PEGASUS 805	$10,740.31	$10,740.31
160026	1/28/2016	800394.17E	GSE CONSTRUCTION CO INC	THICKENER CONTROL BLDG IMPROV PHASE II - ESCROW PYMT	$9,640.90	$9,640.90
160004	1/28/2016	7738	AMERICAN DISCOUNT SECURITY	12/01/15 - 12/15/15 GUARD AT SINKHOLE	$4,048.00	$9,430.00
	1/28/2016	7785		12/16/15 - 01/03/16 GUARD AT SINKHOLE	$5,382.00	
160001	1/28/2016	4071038120160115	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 01/15/16-BENSON ROAD	$65.54	$8,827.79
	1/28/2016	4071037120160115		SERV TO: 01/15/16-BENSON ROAD	$222.34	
	1/28/2016	4071036120160115		SERV TO: 01/15/16-BENSON ROAD	$8,539.91	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159960	1/21/2016	11068440	BLAISDELL'S	ASTD OFFICE SUPPLIES	$67.27	$7,806.44
	1/21/2016	11033660		10 CHAIRS FOR TPO BREAKROOM AND 4 NEW EMPLOYEES	$3,175.00	
	1/21/2016	11072250		ASTD OFFICE SUPPLIES	$36.58	
	1/21/2016	11071490		ASTD CS CREWROOM FURNITURE	$2,247.29	
	1/21/2016	11051121		3 DESK PD	$47.82	
	1/21/2016	11069540		ASTD OFFICE SUPPLIES	$27.48	
	1/21/2016	11033610		4 CHAIRS FOR TPO BREAKROOM & 4 NEW EMPLOYEES	$2,205.00	
160038	1/28/2016	35150	OWEN EQUIPMENT SALES	REPAIR OIL LEAKS TRUCK T3292	$7,750.05	$7,750.05
160041	1/28/2016	1018034	POLYDYNE INC	42,880 LBS CLARIFLOC WE-539	$7,546.88	$7,546.88
159997	1/21/2016	3557842	WESTERN ENERGY SYSTEMS	2 FILTER CARTRIDGES & 2 FILTERS	$2,791.47	$6,862.87
	1/21/2016	3557843		COGEN ENGINE NO. 1 DIODE REPLACEMENT	$4,071.40	
159993	1/21/2016	723482	UNIVAR USA INC	5,001 GALS SODIUM HYPOCHLORITE	$2,261.50	$6,787.68
	1/21/2016	723814		5,000 GALS SODIUM HYPOCHLORITE	$2,261.06	
	1/21/2016	723445		5,009 GALS SODIUM HYPOCHLORITE	$2,265.12	
160030	1/28/2016	20982	IEDA INC	LABOR RELATIONS CONSULTING 1/01/16 - 3/31/16	$5,651.00	$5,651.00
159966	1/21/2016	1054	CLI-METRICS SERVICE COMPANY	SERVICE REQUEST: MOVE N COOLS	$4,000.00	$5,624.63
	1/21/2016	22134		SERVICE REQUEST: BLDG 81 REPLACE DRIVEN SHEAVE	$1,624.63	
160050	1/28/2016	130826	TOTAL WASTE SYSTEMS INC	DECEMBER 2015 GRIT DISPOSAL	$5,456.49	$5,456.49

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
160054	1/28/2016	724140	UNIVAR USA INC	4,998 GALS SODIUM HYPOCHLORITE	$2,260.15	$4,519.40
	1/28/2016	724466		4,996 GALS SODIUM HYPOCHLORITE	$2,259.25	
159990	1/21/2016	12312015	STATE BOARD OF EQUALIZATION	SALES & USE TAX 10/15-12/15	$4,360.00	$4,360.00
159986	1/21/2016	151230	PROSAFE	32 HRS INSPECTIONS & 6 HRS SPCC	$3,800.00	$3,800.00
159951	1/21/2016	4017275220160106	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 01/05/16 - FREMONT BLVD	$28.33	$3,792.13
	1/21/2016	4017274120160106		SERV TO: 01/05/16 - FREMONT BLVD	$3,706.93	
	1/21/2016	4017420220160106		SERV TO: 01/05/16 - FREMONT BLVD	$56.87	
159983	1/21/2016	24857190	MOTION INDUSTRIES INC	ASTD PARTS & MATERIALS	$3,707.83	$3,747.72
	1/21/2016	24856909		1 EA BEARING	$39.89	
160003	1/28/2016	5131575	ALL INDUSTRIAL ELECTRIC SUPPLY	ASTD PARTS & MATERIALS	$3,169.03	$3,169.03
159964	1/21/2016	7015	CDW GOVERNMENT LLC	1 PLANT CONFERENCE PROJECTOR	$97.90	$2,955.40
	1/21/2016	4837		25 TABLET CASES AND MICE	$2,286.90	
	1/21/2016	1663		1 R&R SWITCH	$570.60	
159982	1/21/2016	6763	MID-PENINSULA HOUSING COAL.	REFUND # 18655	$2,800.00	$2,800.00
160057	1/28/2016	121508	VAVRINEK, TRINE, DAY & CO LLP	SERVICES RENDERED THROUGH DECEMBER 31, 2015	$2,500.00	$2,500.00
160039	1/28/2016	XCTZO12	PACHECO BROTHERS GARDENING INC	LANDSCAPE MAINTENANCE SERVICES JANUARY 2016	$1,365.00	$2,280.00
	1/28/2016	XCTZO13		WEED ABATEMENT WORK JANUARY 2016	$915.00	
159962	1/21/2016	588811	BRENNTAG PACIFIC, INC.	3846 LBS SODIUM HYDROXIDE	$2,032.80	$2,032.80

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
160051	1/28/2016	81261	TRI-SIGNAL INTEGRATION INC	TROUBLESHOOT FIRE ALARM SYSTEM	$592.00	$1,924.49
	1/28/2016	81276		TROUBLESHOOT FIRE ALARM SYSTEM	$296.00	
	1/28/2016	81274		TROUBLESHOOT FIRE ALARM SYSTEM	$296.00	
	1/28/2016	81275		TROUBLESHOOT FIRE ALARM SYSTEM	$386.35	
	1/28/2016	81277		TROUBLESHOOT FIRE ALARM SYSTEM	$354.14	
159959	1/21/2016	121553	BEECHER ENGINEERING	STANDBY POWER SYSTEM UPGRADE	$1,700.00	$1,880.00
	1/21/2016	121556		MCC & PLC REPLACEMENT PH 3	$180.00	
160008	1/28/2016	11079400	BLAISDELL'S	ASTD OFFICE SUPPLIES	$1,581.80	$1,605.08
	1/28/2016	11079580		4 STAMP PADS	$23.28	
160024	1/28/2016	9923300926	GRAINGER INC	16 EA LIQUID TIGHT CONNECTORS	$128.12	$1,560.08
	1/28/2016	9921295110		2 E CASES PAPER DINNER PLATES	$269.12	
	1/28/2016	9923042999		1 EA TRAY CABLE, SHIELDED	$328.88	
	1/28/2016	9921219342		ASTD PARTS & MATERIALS	$833.96	
160060	1/28/2016	25752	WILEY PRICE & RADULOVICH LLP	LABOR & EMPLOYMENT LAW FEES	$1,554.50	$1,554.50
159952	1/21/2016	5130939	ALL INDUSTRIAL ELECTRIC SUPPLY	ROBICON VFD CIRCUIT BOARD REPAIR	$1,094.50	$1,545.59
	1/21/2016	5131319		1 HMCP050K2C 50 CONTINUOUS 480 V RATED MAG	$451.09	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159976	1/21/2016	1083755632	G&K SERVICES CO	UNIFORMS & MATS	$59.22	$1,537.92
	1/21/2016	1083755633		UNIFORM LAUNDERING SERVICE	$11.20	
	1/21/2016	1083753661		UNIFORM LAUNDERING SERVICE	$11.20	
	1/21/2016	1083753656		UNIFORM LAUNDERING SERVICE	$95.98	
	1/21/2016	1083755629		UNIFORM LAUNDERING SERVICE	$83.90	
	1/21/2016	1083755634		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	$33.78	
	1/21/2016	1083755627		UNIFORM LAUNDERING SERVICE	$400.60	
	1/21/2016	1083753655		UNIFORM LAUNDERING SERVICE	$130.88	
	1/21/2016	1083753660		UNIFORMS & MATS	$59.22	
	1/21/2016	1083755631		UNIFORM LAUNDERING SERVICE	$16.96	
	1/21/2016	1083753657		UNIFORM LAUNDERING SERVICE	$83.90	
	1/21/2016	1083755630		UNIFORM LAUNDERING SERVICE	$40.82	
	1/21/2016	1083753659		UNIFORM LAUNDERING SERVICE	$16.96	
	1/21/2016	1083753662		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	$33.78	
	1/21/2016	1083753658		UNIFORM LAUNDERING SERVICE	$32.15	
	1/21/2016	1083755628		UNIFORM LAUNDERING SERVICE	$427.37	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159978	1/21/2016	9913861820	GRAINGER INC	ASTD PARTS & MATERIALS	$646.20	$1,409.14
	1/21/2016	9913861812		1 EA PIN & SLEEVE PLUG	$433.40	
	1/21/2016	9914794871		2 EA FLOWMETER VERTICAL MOUNTS	$231.97	
	1/21/2016	9918704801		ASTD PARTS & MATERIALS	$97.57	
160031	1/28/2016	200837335	IRON MOUNTAIN	DATA/MEDIA OFF-SITE STORAGE - DEC 2015	$235.26	$1,327.13
	1/28/2016	1013		OFF-SITE STORAGE AND SERVICES DEC 2015	$312.61	
	1/28/2016	5035		OFF-SITE STORAGE AND SERVICES DEC 2015	$779.26	
159955	1/21/2016	20151215	AMAZON.COM LLC	12/15 - ASTD OFFICE SUPPLIES	$1,290.07	$1,290.07
160035	1/28/2016	47647862	MCMASTER SUPPLY INC	1 EA LIQUID-LEVEL FLOAT SWITCH	$172.78	$1,288.25
	1/28/2016	47647861		1 EA ALL-WELDED FIXED-HEIGHT WORKBENCH	$415.76	
	1/28/2016	47629546		6 EA COMPACT LIQUID-FILLED GAUGES	$233.52	
	1/28/2016	47729787		ASTD PARTS & MATERIALS	$128.71	
	1/28/2016	47647863		1 PACK NONMARRING FLAT POINT SOCKET SET SCREW	$16.14	
	1/28/2016	47629545		6 EA AIR REGULATORS	$179.97	
	1/28/2016	47629547		1 EA MULTIPURPOSE STAINLESS STEEL BAR	$67.76	
	1/28/2016	47877678		2 EA 26" INNER TUBE FOR CYCLE	$23.72	
	1/28/2016	47666282		1 PACK SQUARE CAP WITH TAPERED END	$15.78	
	1/28/2016	47666283		1 EA INCH TAP GUIDE FOR NO. 6 TO 5/8"	$34.11	
160006	1/28/2016	1020	AUTOMATED NETWORK CONTROLS	SCADA/PLC SUPPORT SERVICES	$1,207.72	$1,207.72

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159958	1/21/2016	2521904083	BANK OF NEW YORK	OCT 2015 SERVICE FEE	$592.27	$1,183.97
	1/21/2016	2521910722		NOV 2015 SERVICE FEE	$591.70	
160005	1/28/2016	1847050307	AT&T	SERV: 01/10/16 - 02/09/16	$1,178.56	$1,178.56
160016	1/28/2016	261719	CURTIS & TOMPKINS, LTD	50 LAB SAMPLE ANALYSIS	$825.00	$1,045.00
	1/28/2016	261640		17 LAB SAMPLE ANALYSIS	$220.00	
159991	1/21/2016	743395500	TELEPACIFIC COMMUNICATIONS	WIRELESS INTERNET BACKUP - JANUARY 2016	$960.00	$960.00
159971	1/21/2016	20151225.25	DALE HARDWARE INC	12/15 - ASTD PARTS & MATERIALS	$940.21	$940.21
159967	1/21/2016	20151228	COMMUNICATION & CONTROL INC	UTILITY FEE/ANTENNA RENTAL	$938.65	$938.65
160029	1/28/2016	11013008	HYATT PLACE TEMPE	PRE-PAY LODGING - WILSON WONG 3/6 TO 3/11/16	$919.87	$919.87
159999	1/28/2016	9932740338	AIRGAS NCN	CYLINDER RENTAL	$895.84	$895.84
159989	1/21/2016	20151231	STATE BOARD OF EQUALIZATION	STORAGE TANK MAINT FEE 2015	$806.72	$806.72
159968	1/21/2016	83287	CONCRETE WALL SAWING CO INC	CORE DRILLING FOR HAYWARD MARSH	$800.00	$800.00
159980	1/21/2016	20160118	JACK DOHENY SUPPLIES, INC.	PACP NASSCO TRAINING FOR M. LOPEZ	$800.00	$800.00
159992	1/21/2016	28617	THOMAS AND ASSOCIATES	ASTD PARTS & MATERIALS	$741.53	$741.53
160053	1/28/2016	99709	UNITED CONTRACTORS	2016 ASSOCIATE DUES	$712.00	$712.00
159985	1/21/2016	762	PROACTIVE SAFETY & TRNG MGMT	HAZARDOUS MATERIAL/WASTE HANDLING CLASS	$695.00	$695.00
160047	1/28/2016	1234698	ROCHESTER MIDLAND CORPORATION	HOT WATER LOOP SERVICE	$689.03	$689.03
160020	1/28/2016	9724	FREMONT EXPRESS COURIER SVC	COURIER SERVICES: DEC 2015 DAILY MAIL/2 BOARDMEMBER DELIVEF	$660.00	$660.00
159956	1/21/2016	7784	AMERICAN DISCOUNT SECURITY	DEC SECURITY GUARD SERVICES	$621.00	$621.00

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159973	1/21/2016	85238336	DOUBLETREE-HILTON L.A.-NORWALK	LODGING: Y. LU - CCST TRAINING	$595.08	$595.08
159961	1/21/2016	20160115	LAURIE BRENNER	TRAVEL REIMB: CASA CONFERENCE AIRFARE/LODGINIG DEPOSIT	$583.90	$583.90
160036	1/28/2016	160156	METROMOBILE COMMUNICATIONS INC	ANNUAL RADIO SERVICE - JAN 2016	$582.75	$582.75
159975	1/21/2016	10516	EUROFINS AIR TOXICS INC	2 LAB SAMPLE ANALYSIS	$550.00	$550.00
160017	1/28/2016	20160125	MICHAEL DUNNING	EXP REIMB: TEAM SAFETY RECOGNITION	$516.45	$516.45
160007	1/28/2016	85148	BARNETT MEDICAL SERVICES LLC	30 LBS PHARMACEUTICAL WASTE REMOVAL	$85.00	$504.00
	1/28/2016	85564		80 LBS PHARMACEUTICAL WASTE REMOVAL	$164.00	
	1/28/2016	85853		35 LBS PHARMACEUTICAL WASTE REMOVAL	$85.00	
	1/28/2016	86139		70 LBS PHARMACEUTICAL WASTE REMOVAL	$85.00	
	1/28/2016	86382		50 LBS PHARMACEUTICAL WASTE REMOVAL	$85.00	
160012	1/28/2016	52900	CITYLEAF INC	PLANT MAINTENANCE - JAN 2016	$420.23	$420.23
160002	1/28/2016	5131604	ALL INDUSTRIAL ELECTRIC SUPPLY	3 DX/10 2X5 BATTERY DX	$413.60	$413.60
160028	1/28/2016	601911258	HILLYARD/SAN FRANCISCO	ASTD JANITORIAL SUPPLIES	$395.06	$395.06
160061	1/28/2016	82856254	XEROX CORPORATION	MTHLY MAINTENANCE BASED ON USE	$85.65	$389.16
	1/28/2016	82856251		MTHLY MAINTENANCE BASED ON USE	$286.25	
	1/28/2016	82856252		MTHLY MAINTENANCE BASED ON USE	$17.26	
160040	1/28/2016	20160125	VICTOR PADILLA	EXP REIMB: MEALS/TRAVEL SWP TRAINING SAN DIEGO	$377.05	$377.05

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160021	1/28/2016	1083757584	G&K SERVICES CO	ASTD DUST MOPS, WET MOPS & TERRY TOWELS	$33.78	$377.04
	1/28/2016	1083757579		UNIFORM LAUNDERING SERVICE	$83.90	
	1/28/2016	1083757580		UNIFORM LAUNDERING SERVICE	$38.93	
	1/28/2016	1083757581		UNIFORM LAUNDERING SERVICE	$16.96	
	1/28/2016	1083757583		UNIFORM LAUNDERING SERVICE	$11.20	
	1/28/2016	1083757578		UNIFORM LAUNDERING SERVICE	$95.98	
	1/28/2016	1083757577		UNIFORM LAUNDERING SERVICE	$96.29	
159987	1/21/2016	8200000009128	RED WING SHOE STORE	SAFETY SHOES - GILL & BAILE	$364.06	$364.06
160022	1/28/2016	1841073747	GOODYEAR COMM TIRE & SERV CTRS	2 EA TIRES	$354.07	$354.07
160019	1/28/2016	902464398	EVOQUA WATER TECHNOLOGIES	DI WATER SYSTEM	$345.00	$345.00
160043	1/28/2016	118599	PREFERRED ALLIANCE INC	DECEMBER 2015 SERVICE FEE	$327.20	$327.20
159954	1/21/2016	5123177	ALPHA ANALYTICAL LABORATORIES	16 LAB SAMPLE ANALYSIS	$315.00	$315.00
160033	1/28/2016	20160125	CONGNA LI	EXP REIMB: WEF & CWEA MEMBERSHIPS - C LI	$297.00	$297.00
160046	1/28/2016	21144	RMC WATER AND ENVIRONMENT	AS NEEDED SUPPORT FOR PRETREATMENT PROGRAM	$294.50	$294.50
159996	1/21/2016	8043526390	VWR INTERNATIONAL LLC	4 PKS TUBE HYDROGEN SULFIDE DET	$292.16	$292.16
159969	1/21/2016	261552	CURTIS & TOMPKINS, LTD	1 LAB SAMPLE ANALYSIS	$60.00	$265.00
	1/21/2016	261448		10 LAB SAMPLE ANALYSIS	$205.00	
160052	1/28/2016	6518	TURNER RISK CONSULTING INC	TRENCHING EXCAVATION SHORING TRAINING - MINCHACA	$250.00	$250.00
159972	1/21/2016	20160107	KATHRYN DESTAFNEY	EXP REIMB: MMT SAFETY RECOGNITION GIFT CARDS	$237.50	$237.50

UNION SANITARY DISTRICT
CHECK REGISTER
1/16/2016-01/29/2016

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
160000	1/28/2016	1362	ALAMEDA COUNTY TREASURER	75 ASSESSOR'S MAPS	$225.00	$225.00
160044	1/28/2016	56874	QUENVOLD'S SAFETY SHOEMOBILES	SAFETY SHOES - CLENNON	$201.30	$201.30
159981	1/21/2016	47233349	MCMASTER SUPPLY INC	4 EA EXTENDED LIFE SEALED LEAD-ACID BATTERIES	$200.18	$200.18
160045	1/28/2016	20160001	QUICK SPACE RENTALS	GUARD BOOTH RENTAL JANUARY 2016	$192.50	$192.50
160055	1/28/2016	9853016.0	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 01/02/16	$186.84	$186.84
160013	1/28/2016	25207	CIWA, INC	E-WASTE REMOVAL & RECYCLING	$175.00	$175.00
160042	1/28/2016	20160127	MICHELLE POWELL	EXP REIMB: CAPIO CONFERENCE HOTEL DEPOSIT	$155.00	$155.00
159998	1/28/2016	7956600	ABC IMAGING, INC.	2 USD NEWSLETTER POSTERS	$149.20	$149.20
159970	1/21/2016	20160120	RICHARD CZAPKAY	EXP REIMB: SAFETY RECOGNITION MEAL 10 EMPLOYEES	$144.57	$144.57
160011	1/28/2016	6207	CDW GOVERNMENT LLC	30 CISCO PHONE WALL MOUNT KITS	$1,608.75	$142.39
	1/28/2016	2886		CREDIT 28 CISCO IP PHONE POWER TRANSFORMERS	$-1,293.60	
	1/28/2016	3865		CREDIT 28 CISCO IP TRANSFORMER POWER CORDS	$-172.76	
159965	1/21/2016	285593	CENTERVILLE LOCKSMITH	MAIN ENTRY DOOR REPAIR	$136.43	$136.43
160058	1/28/2016	8043569469	VWR INTERNATIONAL LLC	4 GALS BUFFER PH 6.86	$129.10	$129.10
160037	1/28/2016	20160125	NCCIPMA	REGIS FEE - NCCIPMA-HR ANNUAL CONF - K. KING	$129.00	$129.00
159988	1/21/2016	20160114	KRISTINA SILVA	PROJ 464 OVERALL APPROACH MEETING LUNCH	$127.73	$127.73
159995	1/21/2016	9758041862	VERIZON WIRELESS	WIRELESS SERV 12/02/15-01/01/16	$113.10	$113.10
159977	1/21/2016	79825	GORILLA METALS	ASTD METAL, STEEL, STAINLESS, AND ALUMINUM	$31.35	$93.29
	1/21/2016	79848		ASTD METAL, STEEL, STAINLESS, AND ALUMINUM	$61.94	

UNION SANITARY DISTRICT
CHECK REGISTER
1/16/2016-01/29/2016

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
159953	1/21/2016	12450	ALLIED FLUID PRODUCTS CORP	16 1/4" X 48" NEOPRENE SHEETS	$88.38	$88.38
160023	1/28/2016	79874	GORILLA METALS	ASTD METAL, STEEL, STAINLESS, AND ALUMINUM	$82.02	$82.02
160027	1/28/2016	260825	HANIGAN COMPANY INC	1 LOT BUSINESS CARDS - A. BUNYI	$40.28	$78.19
	1/28/2016	260826		1 LOT BUSINESS CARDS - P. ARENDS-KING	$37.91	
160014	1/28/2016	199094	CLARK'S HOME AND GARDEN INC	CURB & GUTTER	$76.89	$76.89
160048	1/28/2016	20160125	THOMAS SOLARI	EXP REIMB: MILEAGE FOR CALL OUT	$65.33	$65.33
159957	1/21/2016	20160114	ROLLIE ARBOLANTE	REG REIMB: CWEA-SFBS AWARDS BANQUET	$55.00	$55.00
160010	1/28/2016	142894	STATE OF CALIFORNIA	1 NEW HIRE FINGERPRINTS	$32.00	$32.00
159994	1/21/2016	9853525.0	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 12/26/15	$11.08	$11.08

Invoices:

Credit Memos :	2	-1,466.36
$0 - $1,000 :	140	38,525.72
$1,000 - $10,000 :	47	166,030.81
$10,000 - $100,000 :	11	276,490.46
Over $100,000 :	2	480,675.06
Total:	202	960,255.69

Checks:

$0 - $1,000 :	61	23,215.18
$1,000 - $10,000 :	37	138,878.71
$10,000 - $100,000 :	11	317,486.74
Over $100,000 :	2	480,675.06
Total:	111	960,255.69

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
General Manager/ District Engineer

David M. O'Hara
Attorney

DATE: January 27, 2016

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, P.E., General Manager/District Engineer
Pamela Arends-King, Business Services Manager/CFO
Deborah Kull, Sr. Accountant

SUBJECT: Agenda Item No. 16b - Meeting of February 8, 2016
Information Item: Status Report on Computer Purchase and Student Loan Program

Reporting Period: July 1, 2015 – December 31, 2015

Maximum USD Commitment for Computer Loans				$50,000
Maximum USD Commitment for Student Loans				$15,000
Outstanding Loans	July 1, 2015		$16,117	
Computer		$16,117		
Student		$ 0		
Add: New Loan Disbursements			$ 8,107	
Computer		$ 8,107		
Student		$ 0		
Less: Payroll Deduction Payments			$ 6,915	
Computer		$ 6,915		
Student		$ 0		
Loans Outstanding	December 31, 2015			$17,309
Computer		$17,309		
Student		$ 0		
Funds Available - Computer and Student				$32,691

Statistics – Computer Purchase Loans

Current average loan balance	$ 911
Employees currently participating	19
Number of current employees who have participated	63
Current period average original loan	$ 1,621

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
General Manager/
District Engineer

Karen W. Murphy
Attorney

DATE: February 1, 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
Derek Chiu, Assistant Engineer

SUBJECT: Agenda Item No. 16c - Meeting of February 8, 2016
Information Item: **Update on the Subsurface Investigation at the Alvarado Wastewater Treatment Plant**

Recommendation

This is an information item.

Background

The Alameda County Water District (ACWD) is responsible for regulating the groundwater supply within our service area, most of which is underlain by aquifers that provide drinking water for the three cities. In 1999, pursuant to ACWD's request to investigate potential releases of petroleum hydrocarbons into soil and groundwater beneath the treatment plant property, the District initiated environmental investigation activities in three areas of the plant. These areas are shown in Figure 1 and are summarized as follows:

- Former Boneyard Area – The District conducted an environmental investigation and remediation in this area (Figure 2), which was previously used for equipment storage and maintenance. The investigation indicated a subsurface petroleum impact of primarily diesel-range hydrocarbons. In the summer of 1999, a source removal operation was conducted with approximately 5,000 cubic yards of impacted soil excavated and disposed offsite. Upon completing the soil removal, the District backfilled the excavation with

clean fill, installed three groundwater monitoring wells (MW-1 through MW-3) and initiated monitoring these wells.

- Former 550-Gallon Gasoline Underground Storage Tank (UST) Area – In August 1999, a subsurface investigation was initiated in this area (Figure 3) after the observation of hydrocarbon odors emanating from an excavation performed during construction at the facility. In September 2000, the District removed this UST under the oversight of the Union City Environmental Program Department (UCEPD) and the ACWD. Observations made during the UST removal indicated that the subsurface petroleum hydrocarbons likely originated from a leak in an underground fuel line beneath a fuel dispenser. The District over-excavated impacted soil in the suspected source area.

  In 2000, another subsurface investigation was conducted at the Site to assess whether petroleum hydrocarbons were present in soil near a 10,000-gallon diesel UST and a 1,000-gallon waste oil UST. This investigation was conducted at the request of the UCEPD after pressure testing indicated potential failures of the secondary containment systems of these USTs. The investigation included collecting soil and grab groundwater samples from borings advanced throughout the area. The laboratory results indicated the presence of hydrocarbons associated with gasoline, primarily methyl tertiary butyl ether (MTBE), and not diesel or waste oil. It was concluded that these hydrocarbons were likely from the former 550-gallon gasoline UST.

  In 2003, the District installed and initiated monitoring of five groundwater monitoring wells (MW-5 through MW-9) in this area. Well MW-4 was an existing well in the area and was included in the groundwater monitoring program.

- Closed-in-place 6,000-gallon Diesel UST Area – The subsequent investigation conducted in 2000 also included sampling the subsurface in the vicinity of a 6,000-gallon diesel UST located in the southwest corner of the plant (Figure 4). The soil and grab groundwater samples collected adjacent to this UST contained detectable concentrations of petroleum hydrocarbons in the diesel range. The 6,000-gallon diesel UST was closed-in-place by the District in June 2005 under oversight from the City of Union City and the ACWD.

  In 2003, the District installed and initiated monitoring of one groundwater monitoring well (MW-10) in this area.

Groundwater Monitoring Program

The purpose of the plant's groundwater monitoring program is to document groundwater conditions in the areas of concern. The monitoring is performed to evaluate changes in water levels and groundwater flow direction and gradient, establish water quality conditions, and

assess hydrocarbon concentration trends. The ten groundwater monitoring wells were initially monitored quarterly but upon approval of the ACWD, the frequency was reduced to semi-annual or annual in subsequent years. Due to the analytical results at wells MW-4, MW-9, and MW-10, the ACWD approved the removal of these wells from the monitoring program and the District closed the wells in 2008.

The current sampling schedule of the remaining seven wells is summarized in Table 1 below:

Table 1 – Summary of Sampling Schedule

Well	Sampling Frequency	Sampling Constituents
MW-1	Annual	TPH-D, TPH-MO, Monthly Purging
MW-2	Annual	TPH-D, TPH-MO
MW-3	Annual	TPH-D, TPH-MO
MW-5	Annual	MTBE, TBA
MW-6	Removed from Sampling	Groundwater Level Measurement Only
MW-7	Removed from Sampling	Groundwater Level Measurement Only
MW-8	Annual	MTBE, TBA

Legend
TBA = tertiary-butyl alcohol
MTBE = methyl tertiary-butyl ether
TPH-D = total petroleum hydrocarbons as diesel
TPH-MO = total petroleum hydrocarbons as motor oil

Since 2007, staff has conducted monthly purging of the light, non-aqueous phase liquid (LNAPL) present in well MW-1. The objective of this purging is to eliminate the LNAPL layer observed in this monitoring well and mitigate the elevated dissolved petroleum hydrocarbons present in the groundwater in its vicinity.

Following the 2015 annual monitoring event, and in consultation with ACWD, a hydrocarbon absorbing sock will be placed in MW-1 to remove LNAPL in place of the monthly purging. The hydrocarbon absorbing sock will be more efficient in removing the hydrocarbons than the monthly purging. The sock will be checked on a monthly basis and replaced when fully saturated.

Annual 2015 Groundwater Monitoring Event

In September 2015, staff procured the services of Brown and Caldwell to sample the groundwater from the wells, analyze the test results, and prepare a report. The conclusions from the annual 2015 groundwater monitoring event are as follows:

1. Groundwater elevations in the Former Boneyard Area and the Former 550-Gallon UST Area have remained consistent throughout the year with previous years, with the groundwater flow direction corresponding with the results from the previous monitoring events.

2. Three of four monitoring wells (MW-2, MW-5, and MW-8) measured groundwater with an electrical conductivity that exceeded the State Water Resources Control Board's (SWRCB's) acceptable limits for a groundwater source to be considered suitable, or potentially suitable, for domestic or municipal drinking water supply. In fact, the electrical conductivity in the three wells increased sharply after several years of declining numbers. Electrical conductivity in water is a measurement to determine the concentration of total dissolved solids.

3. A less than 0.1 foot thick layer of LNAPL was encountered in well MW-1 during the Annual 2015 event. This layer of LNAPL did not change from 2014 but increased slightly from previous years.

4. Since August 2007, the District has conducted 91 monthly purging events on MW-1 removing a total of 536 gallons of groundwater/LNAPL mixture and removing approximately 4.2 gallons of LNAPL. It appears that these purging events have been successfully mitigating the petroleum hydrocarbon concentrations present in the groundwater in the vicinity of this well. Monthly purging will cease after the 2015 monitoring event and hydrocarbon absorbing socks will be used instead to remove the LNAPL.

   Purging events in the last year removed 67 gallons of groundwater/LNAPL mixture and approximately 0.4 gallons of LNAPL, which was consistent with the results from previous years.

5. Drinking water environmental screen levels (ESLs) were exceeded in the groundwater samples collected from monitoring wells MW-5 and MW-8 for MTBE. Non-drinking water ESLs were not exceeded in the monitoring wells for any constituent of concern. The results of wells MW-5 and MW-8 were consistent from the results of 2014.

The sampling results of well MW-1 improved from 2014's results. Drinking water and non-drinking water ESLs were both exceeded for TPH-D and TPH-MO in 2014 but neither were exceeded in 2015.

Even though groundwater samples from wells MW-2 and MW-3 were below the reporting limits of the constituents, the sampling of these wells will be necessary to monitor the extent of the contamination plume in the groundwater table in the Former Boneyard Area. No groundwater samples were taken from wells MW-6 and MW-7 but the groundwater levels were measured to determine the groundwater gradient in the Former 550-Gallon Gasoline UST Area. This will help document that the contamination plume is stable and has not extended outside the area.

The analytical test results are included in Table 2.

2015 Water Supply Well Survey

In June 2014, ACWD reevaluated the District's case under a new SWRCB low-threat closure policy and the review concluded that the plant's monitoring wells were not eligible for closure. However, ACWD provided a "Path to Closure Plan" for the monitoring wells. One of the requirements of the plan was to perform a water supply well survey and to identify if there were any wells in the vicinity of the plant that could be potential receptors.

In April 2015, Brown and Caldwell performed the survey around the treatment plant. The first part of the survey was a review of well completion reports for wells within a 2-mile radius of the plant. Well completion reports were requested from the California Department of Water Resources and reviewed to locate any wells that were completed as industrial, municipal, domestic, or irrigation. No wells were found within one mile of the plant but a total of sixteen wells were identified within one to two miles of the plant. However, these sixteen wells are not considered to be potential receptors because they were completed at much greater depths than the monitoring wells at the plant (20-30 feet below ground surface). The second part of the survey, conducted on June 3, 2015, was a drive-by survey of the area to locate any wells not identified in the well completion reports. The 2015 survey concluded that there are no wells within a two-mile radius of the plant that are potential receptors.

Next Steps

Another remaining requirement in the Path to Closure Plan includes conducting a vapor intrusion investigation. This investigation will determine if there is a risk of vapors from the hydrocarbons entering and accumulating in the indoor air of any dwellings or buildings.

The last requirement in the Path to Closure Plan is to remove free product to the maximum extent practicable. ACWD will not allow closure of the wells unless there are multiple consecutive years where the sampling results show that the drinking water ESLs were not exceeded.

In the past, the District has requested ACWD to allow closure of all of the wells except MW-1 since the analytical results show the concentrations of the constituents were below non-drinking ESLs. ACWD has resisted because the groundwater beneath the plant site is considered a potential drinking water source and those ESLs would apply to the groundwater samples. Staff and Brown and Caldwell are continuing to work with ACWD in completing the Path to Closure Plan.

PRE/SEG/RC/DC:ks

Attachments: Figures 1 through 4
Table 2

Figure 1

Alvarado WWTP Site Plan

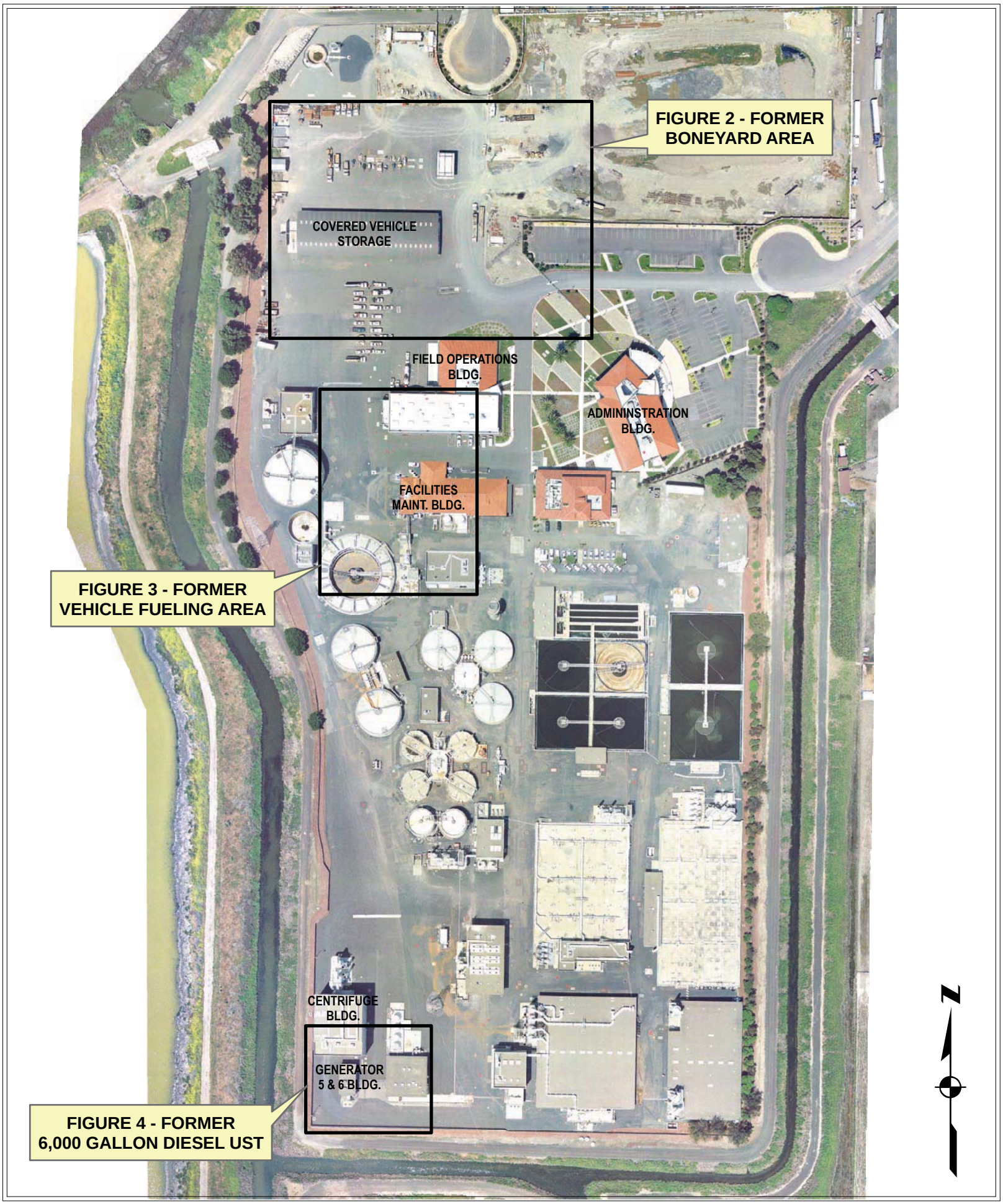

Figure 2

Former Boneyard Area

Figure 3

Former Vehicle Fueling Area

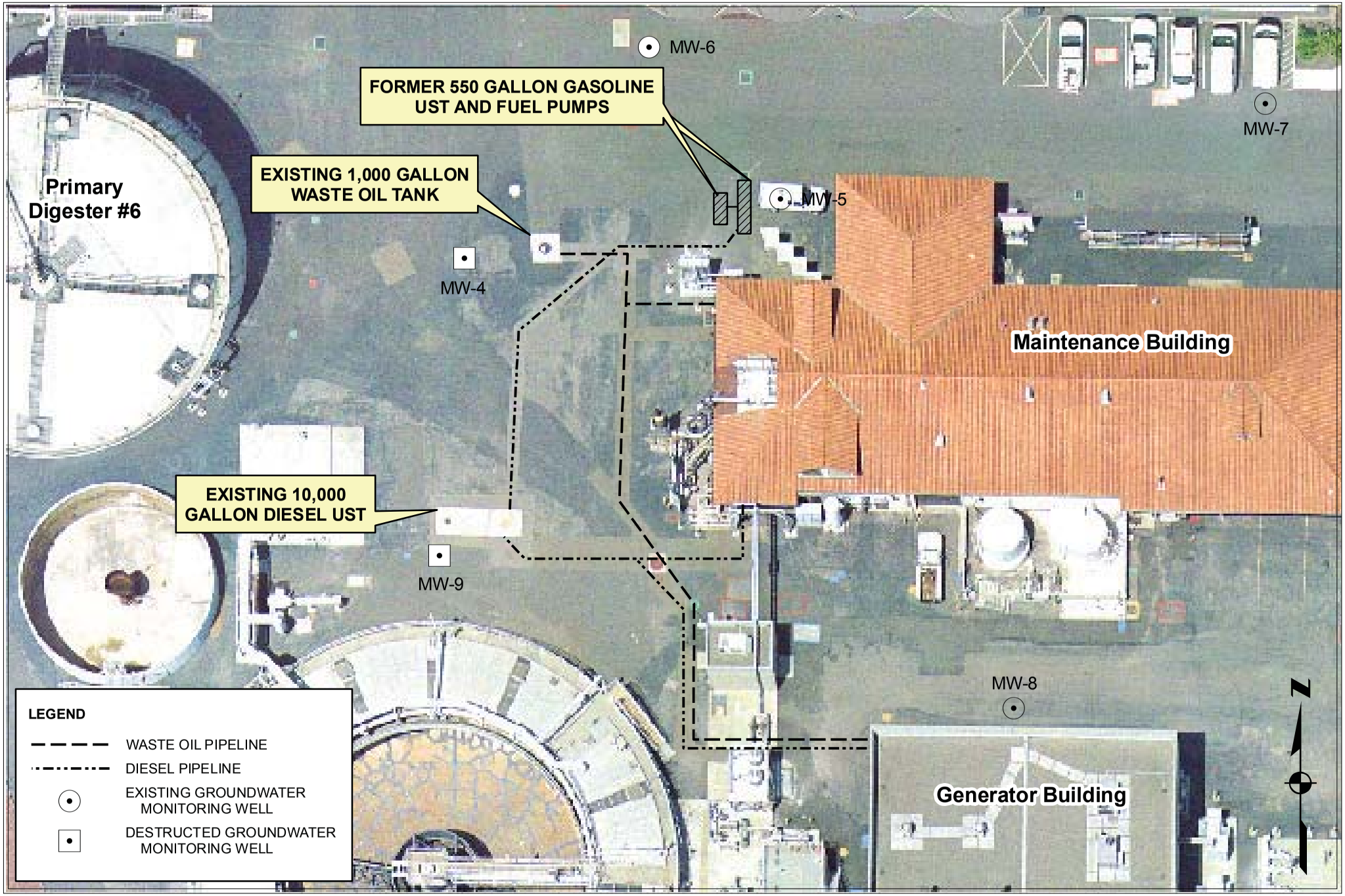

Figure 4

Closed-in-Place 6,000 Gallon Diesel UST

Table 2. Analytical Results - Petroleum Hydrocarbons
Alvarado Wastewater Treatment Plant

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	tBA (ug/L)	DIPE (ug/L)	EtBE (ug/L)	tAME (ug/L)	MtBE (ug/L)	TPH-G (ug/L)	TPH-D (ug/L)	TPH-MO (ug/L)	PNAs (ug/L)
MW-1	11/8/1999	<0.5	<0.5	<0.5	<0.5	----	----	----	----	<5.0	61[a]	150[b]	<250	ND
	6/8/2000[NF]	----	----	----	----	----	----	----	----	----	----	----	----	----
	9/18/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<1.0	<50	570[ndp]	700	ND
	12/21/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	51[ndp]	<500	ND
	2/27/2001	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	<50	<500	ND
	12/15/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<50	1,500[h]	1,300[l]	----
	3/21/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.50	<50	960[h]	1,000[l]	----
	3/21/2006 Dup	----	----	----	----	----	----	----	----	----	----	3,100[h]	3,600[l]	----
	6/28/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	160[hy]	19,000[h]	16,000[l]	----
	6/28/2006 Dup	----	----	----	----	----	----	----	----	----	----	18,000[h]	14,000[l]	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	<50	17,000[h]	13,000[l]	----
	9/11/2006 Dup	----	----	----	----	----	----	----	----	----	----	13,000[h]	10,000[l]	----
	4/10/2007	----	----	----	----	----	----	----	----	----	----	1,600[h,y]	1,200[h,l]	----
	4/10/2007 Dup	----	----	----	----	----	----	----	----	----	----	4,700[h,y]	3,800[h,l]	----
	9/24/2007	----	----	----	----	----	----	----	----	----	----	390[h]	340[h,l]	----
	3/7/2008	----	----	----	----	----	----	----	----	----	----	450	<300	----
	9/9/2008	----	----	----	----	----	----	----	----	----	----	300[y]	<300	----
	3/17/2009	----	----	----	----	----	----	----	----	----	----	540[y]	<300	----
	9/30/2009	----	----	----	----	----	----	----	----	----	----	120[y]	<300	----
	4/21/2010	----	----	----	----	----	----	----	----	----	----	890[y]	550	----
	4/21/2010 Dup	----	----	----	----	----	----	----	----	----	----	210[y]	<300	----
	9/17/2010	----	----	----	----	----	----	----	----	----	----	350[y]	<300	----
	10/28/2011	----	----	----	----	----	----	----	----	----	----	510	360	----
	10/28/2011 Dup	----	----	----	----	----	----	----	----	----	----	320	150	----
	9/14/2012	----	----	----	----	----	----	----	----	----	----	<55	<110	----
	9/14/2012 Dup	----	----	----	----	----	----	----	----	----	----	210	140	----
	9/24/2013	----	----	----	----	----	----	----	----	----	----	1300	1300	----
	9/24/2013 Dup	----	----	----	----	----	----	----	----	----	----	320	330	----
	9/29/2014	----	----	----	----	----	----	----	----	----	----	1300	1400	----
	9/23/2015	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**86**	**<100**	**----**
MW-2 **	11/8/1999	<0.5	<0.5	<0.5	<0.5	----	----	----	----	<5.0	<50	<50	<250	ND
	11/8/99 Dup	<0.5	<0.5	<0.5	<0.5	----	----	----	----	<5.0	<50	----	----	----
	6/8/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	170[ndp]	<500	ND
	6/8/2000 Dup	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	<50	<500	ND
	9/18/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	2.0	<50	<50	<500	ND
	9/18/2000 Dup	<0.50	<0.50	<0.50	<0.50	----	----	----	----	2.1	<50	<50	<500	ND
	12/21/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	240[ndp]	3,700	----
	12/21/2000 Dup	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	200[ndp]	4,000	----
	2/27/2001	<0.50	<0.50 (0.86*)	<0.50	<0.50	----	----	----	----	<5.0	<50	56[ldr]	1,100	----
	2/27/2001 Dup	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	71[ldr]	1,400	----
	12/13/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	2.2	<50	61[ldr]	<300	----
	3/20/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	2.2	<50	65[h]	650	----
	6/27/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	2.2	<50	<50	<300	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	2.0	<50	<50	<300	----
	4/10/2007	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/24/2007	----	----	----	----	----	----	----	----	----	----	<50	430[h]	----
	9/24/2007 Dup	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	3/7/2008	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	3/7/2008 Dup	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/8/2008	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	3/17/2009	----	----	----	----	----	----	----	----	----	----	<50	350	----
	3/17/2009 Dup	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/29/2009	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/29/2009 Dup	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/17/2010	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/17/2010 Dup	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	10/28/2011	----	----	----	----	----	----	----	----	----	----	69	430	----
	9/14/2012	----	----	----	----	----	----	----	----	----	----	<53	<110	----
	9/24/2013	----	----	----	----	----	----	----	----	----	----	<54	370	----
	9/29/2014	----	----	----	----	----	----	----	----	----	----	<52	<100	----
	9/29/2014 Dup	----	----	----	----	----	----	----	----	----	----	<53	<110	----
	9/23/2015	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**<52**	**<100**	**----**

Table 2. Analytical Results - Petroleum Hydrocarbons
Alvarado Wastewater Treatment Plant

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	tBA (ug/L)	DIPE (ug/L)	EtBE (ug/L)	tAME (ug/L)	MtBE (ug/L)	TPH-G (ug/L)	TPH-D (ug/L)	TPH-MO (ug/L)	PNAs (ug/L)
MW-3 **	11/8/1999	<0.5	<0.5	<0.5	<0.5	----	----	----	----	<5.0	<50	*110 [c]*	<250	ND
	6/8/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	<50	<500	ND
	9/18/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	2.1	<50	<50	<500	ND
	12/21/2000	<0.50	<0.50	<0.50 (0.97*)	<0.50	----	----	----	----	<5.0	<50	<50	<500	----
	2/27/2001	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	<50	<500	----
	12/13/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	1.9	<50	<50	<300	----
	3/21/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	<50	<50	<300	----
	6/28/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.50	<50	<50	<300	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	<50	<50	<300	----
	4/11/2007	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/25/2007	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	3/8/2008	----	----	----	----	----	----	----	----	----	----	*72 [f]*	<300	----
	9/9/2008	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	3/17/2009	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/30/2009	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/17/2010	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	10/28/2011	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/14/2012	----	----	----	----	----	----	----	----	----	----	<54	<110	----
	9/24/2013	----	----	----	----	----	----	----	----	----	----	<55	<110	----
	9/29/2014	----	----	----	----	----	----	----	----	----	----	<51	<100	----
	9/25/2015	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**----**	**<50**	**<100**	**----**
MW-4*	9/3/1999	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.5	<50	100	----	----
	6/8/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	*80 [g]*	<50	<500	*5.2 [bp]*
	9/18/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<1.0	<50	<50	<500	ND
	12/21/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	<50	<500	----
	2/27/2001	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	<50	<500	----
	12/14/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<50	<50	----	----
	3/21/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.50	<50	<50	<300	----
	6/27/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	<50	<50	----	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.5	<50	<50	----	----
	4/11/2007	----	----	----	----	----	----	----	----	<0.5	----	----	----	----
	9/24/2007	----	----	----	----	----	----	----	----	---	----	----	----	----
MW-5*	12/14/2005	<0.83	<0.83	<0.83	<0.83	<17	<0.83	<0.83	<0.83	*180*	<83	<50	----	----
	12/14/2005 Dup	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	0.52	*180*	<50	<50	----	----
	3/21/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	*910*	<50	78	<300	----
	3/21/2006 Dup	<0.50	<0.50	<0.50	<0.50	----	----	----	----	*870*	<50	----	----	----
	6/27/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	*320*	<50	*210 [hy]*	----	----
	6/27/2006 Dup	<0.50	<0.50	<0.50	<0.50	----	----	----	----	*690*	<50	----	----	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	*430*	<50	<50	----	----
	9/11/2006 Dup	<0.50	<0.50	<0.50	<0.50	----	----	----	----	*510*	<50	----	----	----
	4/11/2007	----	----	----	----	----	----	----	----	*110*	----	----	----	----
	4/11/2007 Dup	----	----	----	----	----	----	----	----	*100*	----	----	----	----
	9/25/2007	----	----	----	----	<14	----	----	----	*200*	----	----	----	----
	9/25/2007 Dup	----	----	----	----	<14	----	----	----	*130*	----	----	----	----
	3/7/2008	----	----	----	----	*32*	----	----	----	*460*	----	----	----	----
	3/7/2008 Dup	----	----	----	----	<170	----	----	----	*960*	----	----	----	----
	9/8/2008	----	----	----	----	<25	----	----	----	*290*	----	----	----	----
	9/8/2008 Dup	----	----	----	----	<25	----	----	----	*390*	----	----	----	----
	9/30/2009	----	----	----	----	<25	----	----	----	*130*	----	----	----	----
	9/30/09 Dup	----	----	----	----	<33	----	----	----	*200*	----	----	----	----
	9/17/2010	<0.50	<0.50	<0.50	<0.50	<83	----	----	----	*470*	----	----	----	----
	9/17/2010 Dup	<0.50	<0.50	<0.50	<0.50	<100	----	----	----	*680*	----	----	----	----
	10/28/2011	----	----	----	----	<100	----	----	----	*130*	----	----	----	----
	10/28/2011 Dup	----	----	----	----	<100	----	----	----	*40*	----	----	----	----
	9/14/2012	----	----	----	----	*63*	----	----	----	*570*	----	----	----	----
	9/14/2012 Dup	----	----	----	----	*44*	----	----	----	*460*	----	----	----	----
	9/24/2013	----	----	----	----	<100	----	----	----	*230*	----	----	----	----
	9/24/2013 Dup	----	----	----	----	<100	----	----	----	*230*	----	----	----	----
	9/29/2014	----	----	----	----	<200	----	----	----	*720*	----	----	----	----
	9/29/2014 Dup	----	----	----	----	<200	----	----	----	*750*	----	----	----	----
	9/23/2015	**----**	**----**	**----**	**----**	**<20**	**----**	**----**	**----**	***600***	**----**	**----**	**----**	**----**

Table 2. Analytical Results - Petroleum Hydrocarbons
Alvarado Wastewater Treatment Plant

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	tBA (ug/L)	DIPE (ug/L)	EtBE (ug/L)	tAME (ug/L)	MtBE (ug/L)	TPH-G (ug/L)	TPH-D (ug/L)	TPH-MO (ug/L)	PNAs (ug/L)
MW-6*	12/14/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<50	<50	----	----
	3/20/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.50	<50	<50	<300	----
	6/27/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	0.7	<50	<50	----	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	0.6	<50	<50	----	----
	4/11/2007	----	----	----	----	----	----	----	----	0.7	----	----	----	----
	9/25/2007	----	----	----	----	<10	----	----	----	0.6	----	----	----	----
	9/9/2008	----	----	----	----	<10	----	----	----	0.6	----	----	----	----
	9/30/2009	----	----	----	----	<10	----	----	----	< 0.5	----	----	----	----
MW-7*	12/15/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	0.59	<50	<50	----	----
	3/20/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	<50	<50	<300	----
	6/27/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	1.0	<50	<50	----	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	1.2	<50	<50	----	----
	4/11/2007	----	----	----	----	----	----	----	----	1.0	----	----	----	----
	9/25/2007	----	----	----	----	<10	----	----	----	0.8	----	----	----	----
	9/9/2008	----	----	----	----	<10	----	----	----	0.8	----	----	----	----
	9/30/2009	----	----	----	----	<10	----	----	----	< 0.5	----	----	----	----
MW-8**	12/15/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	*58*	<50	<50	----	----
	3/20/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	*37*	<50	78	<300	----
	6/28/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	*16*	<50	61[y]	----	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	*33*	<50	55[y]	----	----
	4/11/2007	----	----	----	----	----	----	----	----	*61*	----	----	----	----
	9/25/2007	----	----	----	----	<10	----	----	----	*32*	----	----	----	----
	3/7/2008	----	----	----	----	<10	----	----	----	*48*	----	----	----	----
	9/9/2008	----	----	----	----	<10	----	----	----	*69*	----	----	----	----
	9/29/2009	----	----	----	----	< 10	----	----	----	*51*	----	----	----	----
	9/17/2010	<0.50	<0.50	<0.50	<0.50	<10	----	----	----	*78*	----	----	----	----
	10/28/2011	----	----	----	----	<10	----	----	----	*36*	----	----	----	----
	9/14/2012	----	----	----	----	7.2	----	----	----	*24*	----	----	----	----
	9/24/2013	----	----	----	----	<10	----	----	----	*65*	----	----	----	----
	9/29/2014	----	----	----	----	<20	----	----	----	*9.7*	----	----	----	----
	9/23/2015	**----**	**----**	**----**	**----**	**<20**	**----**	**----**	**----**	***16***	**----**	**----**	**----**	**----**
MW-9*	12/14/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<50	<50	----	----
	3/21/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.50	<50	52	<300	----
	6/28/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	<50	<50	----	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.5	<50	<50	----	----
	4/11/2007	----	----	----	----	----	----	----	----	<0.5	----	----	----	----
	9/24/2007	----	----	----	----	----	----	----	----	---	----	----	----	----
MW-10*	12/14/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<50	<50	----	----
	3/21/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.50	<50	83	<300	----
	3/21/2006 Dup	----	----	----	----	----	----	----	----	----	----	*120*	<300	----
	6/27/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	<50	68[y]	----	----
	6/27/2006 Dup	----	----	----	----	----	----	----	----	----	----	62[y]	----	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.5	<50	76[y z]	----	----
	9/11/2006 Dup	----	----	----	----	----	----	----	----	----	----	<50	----	----
	4/10/2007	----	----	----	----	----	----	----	----	----	----	55[y]	----	----
	9/24/2007	----	----	----	----	----	----	----	----	----	----	--	----	----
Field Equipment Blank	6/8/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	----	----	----
	9/18/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<1.0	<50	----	----	----
	12/21/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	----	----	----
	2/27/2001	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	----	----	----
	3/20/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.50	<50	<50	<300	----
	4/11/2007	----	----	----	----	----	----	----	----	<0.5	<50	<300	----	----
	9/24/2007	----	----	----	----	---	----	----	----	---	----	<50	<300	----
	9/25/2007	----	----	----	----	<10	----	----	----	<0.5	----	----	----	----
	3/7/2008	----	----	----	----	<10	----	----	----	<0.5	----	----	----	----
	9/8/2008	----	----	----	----	<10	----	----	----	<0.5	----	----	----	----
	9/9/2008	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	3/17/2009	----	----	----	----	----	----	----	----	----	----	<50	<300	----
	9/17/2010	<0.5	<0.5	<0.5	<0.5	<10	----	----	----	<0.5	----	----	----	----
	9/14/2012	----	----	----	----	<4	----	----	----	<0.5	----	----	----	----
	9/24/2013	----	----	----	----	<10	----	----	----	<0.5	----	----	----	----
	9/29/2014	----	----	----	----	<20	----	----	----	<0.5	----	----	----	----

Table 2. Analytical Results - Petroleum Hydrocarbons
Alvarado Wastewater Treatment Plant

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	tBA (ug/L)	DIPE (ug/L)	EtBE (ug/L)	tAME (ug/L)	MtBE (ug/L)	TPH-G (ug/L)	TPH-D (ug/L)	TPH-MO (ug/L)	PNAs (ug/L)
Trip Blank	11/8/1999	<0.5	<0.5	<0.5	<0.5	----	----	----	----	<5.0	<50	----	----	----
	6/8/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	----	----	----
	9/18/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<1.0	<50	----	----	----
	12/21/2000	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	----	----	----
	2/27/2001	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<5.0	<50	----	----	----
	12/14/2005	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<50	----	----	----
	3/20/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<0.50	<50	----	----	----
	6/27/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	<50	----	----	----
	9/11/2006	<0.50	<0.50	<0.50	<0.50	----	----	----	----	<2.0	<50	----	----	----
	4/11/2007	----	----	----	----	----	----	----	----	<0.5	----	----	----	----
	9/25/2007	----	----	----	----	<10	----	----	----	<0.5	----	----	----	----
	9/8/2008	----	----	----	----	<10	----	----	----	<0.5	----	----	----	----
	9/30/2008	----	----	----	----	<10	----	----	----	<0.5	----	----	----	----
	9/17/2010	<0.5	<0.5	<0.5	<0.5	<10	----	----	----	<0.5	----	----	----	----
	10/28/2011	----	----	----	----	<10	----	----	----	<0.5	----	----	----	----
	9/14/2012	----	----	----	----	<4	----	----	---	<0.5	----	----	----	----
	9/24/2013	----	----	----	----	<10	----	----	---	<0.5	----	----	----	----
	9/29/2014	----	----	----	----	<20	----	----	----	<0.5	----	----	----	----
	9/23/2015	**----**	**----**	**----**	**----**	**<20**	**----**	**----**	**----**	**<0.5**	**----**	**----**	**----**	**----**
ESL - DW		1.0	40	30	20	12	NE	NE	NE	5.0	100	100	100	
ESL - NDW		46	130	43	100	18,000	NE	NE	NE	1,800	500	640	640	

Notes:

ug/L = micrograms per liter
Benzene analyzed following U.S. EPA Method 8020, 8021B or 8260B
Toluene analyzed following U.S. EPA Method 8020, 8021B or 8260B
Ethylbenzene analyzed following U.S. EPA Method 8020, 8021B or 8260B
Xylenes analyzed following U.S. EPA Method 8020, 8021B or 8260B (concentration reported is total of m,p- and o-xylenes).
tBA = tert-Butyl Alcohol analyzed following U.S. EPA Method 8260B
DIPE = Isopropyl Ether analyzed following U.S. EPA Method 8260B
EtBE = Ethyl tert-Butyl Ether analyzed following U.S. EPA Method 8260B
tAME = Methyl tert-Amyl Ether analyzed following U.S. EPA Method 8260B
MtBE = Methyl tert-Butyl Ether analyzed following U.S. EPA Method 8260A or 8260B
TPH-G = Total Petroleum Hydrocarbons as Gasoline analyzed following modified EPA Method 8015
TPH-D = Total Petroleum Hydrocarbons as Diesel analyzed following modified EPA Method 8015 and prepared with silica gel clean-up
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil analyzed following modified EPA Method 8015 and prepared with silica gel clean-up
PNAs = Polynuclear Aromatic Hydrocarbons analyzed following U.S. EPA Method 8270A
ESL-DW = San Francisco Regional Water Quality Control Board Environmental Screening Level for sites where groundwater is a current or potential drinking water source, Table F-1a, May 2008
ESL-NDW = San Francisco Regional Water Quality Control Board Environmental Screening Level for sites where groundwater is not a current or potential drinking water source, Table F-1b, May 2008
Dup = Duplicate sample
<*n* = Not detected above the laboratory reporting limit of *n* ug/L
ND = Not detected above laboratory reporting limits for respective individual compounds
NF = Well not found
NE = Not established
---- = Not analyzed
[a] = Heavier gasoline range compounds are significant, chromatogram possibly shows aged gasoline pattern.
[b] = Medium boiling point pattern that does not match diesel, chromatogram possibly shows aged kerosene pattern.
[c] = Diesel range compounds are significant; no recognizable pattern.
[n] = Heavier hydrocarbons contributed to the quantitation.
[l] = Lighter hydrocarbons contributed to the quantitation.
[y] = Sample exhibits chromotagraphic pattern which does not resemble standard
z = Sample analyzed outside EPA Method's holding time
bp = bis (2-Ethylhexyl) phthalate concentration reported
[g] = Hydrocarbon reported in the gasoline range does not match laboratory's gasoline standard
ndp = Hydrocarbon reported does not match the pattern of laboratory's diesel standard
ldr = Hydrocarbon reported is in the late diesel range, and does not match laboratory's diesel standard
* = Analyzed following U.S. EPA Method 8260A
Bold = Current groundwater monitoring event
Italicized = Concentration exceeds the respective ESL-DW
Underline = Concentration exceeds the respective ESL-NDW
= Discontinued sampling groundwater monitoring well per approval from Alameda County Water District; MW-4, MW-9 and MW-10 were destructed on May 2, 2008
= Well sampled annually per approval from Alameda County Water District.

BOARD OF DIRECTORS

QUARTERLY TRAVEL AND TRAINING EXPENDITURE REPORT

2ND QTR, FISCAL YEAR 2016

Board Members	Description	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Beginning Balance	Y-T-D Expense	Balance Available
FERNANDEZ, MANNY								
	TOTAL	0.00	0.00	0.00	0.00	5000.00	0.00	5000.00
HANDLEY, TOM								
	Union City Chamber of Commerce - Spirit Awards Luncheon: Registration		45.00					
	Union City - State of the City Luncheon: Registration		30.00					
	TOTAL	0.00	75.00	0.00	0.00	5000.00	75.00	4925.00
HARRISON, JENNIFER								
	CSDA Webinar: General Manager Evaluations		55.00					
	TOTAL	0.00	55.00	0.00	0.00	5000.00	55.00	4945.00
KITE, PAT								
	CSDA Webinar: Understanding Board Member & District Liability Issues		55.00					
	CSDA Webinar: General Manager Evaluations		55.00					
	TOTAL	0.00	110.00	0.00	0.00	5000.00	110.00	4890.00
LATHI, ANJALI								
	Business Mgmt Daily CD-Audio Conference: Roberts Rules of Order Made Simple	216.70						
	CSDA Webinar: Understanding Board Member & District Liability Issues	69.00						
	CSDA Webinar: Best Practices-Managing Special District Investments		25.00					
	CSDA Webinar: General Manager Evaluations		55.00					
	TOTAL	285.70	80.00	0.00	0.00	5000.00	365.70	4634.30
	GRAND TOTAL	285.70	320.00	0.00	0.00	25000.00	605.70	24394.30

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

Michelle Powell

From: Auto-Receipt <noreply@mail.authorize.net>
Sent: Thursday, September 03, 2015 12:29 PM
To: Michelle Powell
Subject: Transaction Receipt from Union City Chamber of Commerce for 90.00 (USD)

Order Information

Description: Spirit Awards 2 tickets

Billing Information
Michelle Powell
Union Sanitary District
michellep@unionsanitary.ca.gov

Shipping Information

Total: 90.00 (USD)

Payment Information

Date/Time:	3-Sep-2015 12:29:23 PDT
Transaction ID:	7495587235
Payment Method:	Visa xxxx
Transaction Type:	Purchase
Auth Code:	078037

1 ticket for Michelle
1 ticket for Tom Hardley

Merchant Contact Information

Union City Chamber of Commerce
Union City, CA 94587
US
info@unioncitychamber.com

Regina McEvoy

From: info@unioncitychamber.com
Sent: Tuesday, October 20, 2015 12:14 PM
To: Regina McEvoy
Subject: FW: Merchant Email Receipt
Attachments: Map to our auditorium.pub

Hi Regina,

Below is your receipt for two tickets for the upcoming State of the City Luncheon. I have also attached a map to the auditorium where the event will be held.

Thanks,
Madelyn Ramirez
Admin
Union City Chamber of Commerce
3939 Smith Street
Union City, CA 94587
Phone: 510.952.9637

-----Original Message-----
From: Auto-Receipt [mailto:noreply@mail.authorize.net]
Sent: Tuesday, October 20, 2015 11:55 AM
To: Rey Sison
Subject: Merchant Email Receipt

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

========= GENERAL INFORMATION =========
Merchant : Union City Chamber of Commerce (1557821) Date/Time : 20-Oct-2015 11:55:17 PDT

========= ORDER INFORMATION =========
Invoice :
Description : 2 tickets State of City Luncheon Amount : 60.00 (USD) Payment Method: Visa xxxx Transaction Type: Authorization and Capture

1 ticket for Paul Eldredge
1 ticket for Tom Handley

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

========== RESULTS ==========
Response : This transaction has been approved.

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

Invoice No. 35474

INVOICE

Sold To: Ms. Jennifer M Toy
Director
Union Sanitary District
5072 Benson Road
Union City, CA 94587

Ship To: Ms. Jennifer M Toy
5072 Benson Road
Union City, CA 94587

Account No.	Purchase Order No.	Order Date	Order Number	Terms	Invoice Date	Shipping Method
1559		11/3/2015	52147	Net 30	11/3/2015	United States Postal Service

Qty Ordered	Qty Shipped	Back-Ordered	Item Code Description	Unit Price	Extended Price
1	1		WEBGENMANAGEVAL General Manager Evaluations	55.00	55.00

Line Item Total	Freight	Handling	Restocking/ Cancellation Fee	Tax	Subtotal	Amount Received	Amount Due
55.00					55.00	55.00	0.00

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

Invoice No. 35466

INVOICE

Sold To: Ms. Pat Kite
Director
Union Sanitary District

Ship To: Ms. Pat Kite

Account No.	Purchase Order No.	Order Date	Order Number	Terms	Invoice Date	Shipping Method
1558		10/29/2015	52113	Net 30	10/29/2015	United States Postal Service

Qty Ordered	Qty Shipped	Back-Ordered	Item Code Description	Unit Price	Extended Price
1	1		WEBINAR021815 Understanding Board Member & District Liability Issues	55.00	55.00

Line Item Total	Freight	Handling	Restocking/ Cancellation Fee	Tax	Subtotal	Amount Received	Amount Due
55.00					55.00	55.00	0.00

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

Invoice No. 35475

INVOICE

Sold To: Ms. Pat Kite
Director
Union Sanitary District

Ship To: Ms. Pat Kite

Account No.	Purchase Order No.	Order Date	Order Number	Terms	Invoice Date	Shipping Method
1558		11/3/2015	52148	Net 30	11/3/2015	United States Postal Service

Qty Ordered	Qty Shipped	Back-Ordered	Item Code Description	Unit Price	Extended Price
1	1		WEBGENMANAGEVAL General Manager Evaluations	55.00	55.00

Line Item Total	Freight	Handling	Restocking/ Cancellation Fee	Tax	Subtotal	Amount Received	Amount Due
55.00					55.00	55.00	0.00

BusinessManagement

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7600A Leesburg Pike, West Building, Suite 300
Falls Church, VA 22043-2004
Phone: 1-800-543-2055
Fax: 703-905-8040

RECEIPT

DATE: JUNE 22, 2015

TO:
Ms Anjali Lathi, Director
Union Sanitary District
5072 Benson Rd
Union City, CA 94587

FOR:
CD - AUDIO CONFERENCE (CD1074 - 6/23/15 Roberts Rules)
Account #: 43699828

DESCRIPTION	PAYMENT AMOUNT
Thank you for your recent order of:	
CD - AUDIO CONFERENCE (CD1074 - 6/23/15 Roberts Rules)	$197.00
Sign up for your E-mail Updates! **Cut through the clutter!** Get the latest business management advice with e-mail newsletters on the topics in your field. Our e-letters feature actionable advice from our expert editors. Sign up for as many topics as you want and unsubscribe anytime you wish. To signup, to go to www.BusinessManagementDaily.com and select your free updates.	
	Paid by Visa - ending with: ..

We appreciate your patronage!
If you have any questions, of if we can be of further assistance, please call Member Services at 1-800-543-2055. We are available to take your calls Monday through Friday between 9:00 a.m. and 5:00 p.m. Eastern Time.

Thank you for your business!

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

Meeting Confirmation

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

Fax: (510) 477-7501

Webinar: Board Member & District Liability Issues
Wednesday, August 12, 2015

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

You are registered for the following:

Function	Quantity	Rate	Amount
Webinar: Understanding Board Member & District Liability Iss	1	69.00	69.00
		Total	69.00
		Payment	69.00
		Balance	0.00

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

10:00 am - 12:00 pm

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

Meeting Confirmation

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

Fax: (510) 477-7501

Webinar:Best Practices-Managing Special District Investments
Tuesday, November 10, 2015

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

You are registered for the following:

Function	Quantity	Rate	Amount
Webinar: Best Practices-Managing Special District Investment	1	25.00	25.00
		Total	25.00
		Payment	25.00
		Balance	0.00

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

10:00 am - 11:30 am

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

Invoice No. 35473

INVOICE

Sold To:
Ms. Anjali Lathi
Director
Union Sanitary District
5072 Benson Road
Union City, CA 94587

Ship To:
Ms. Anjali Lathi
PO Box 5050
Union City, CA 94587-8550

Account No.	Purchase Order No.	Order Date	Order Number	Terms	Invoice Date	Shipping Method
23107		11/3/2015	52146	Net 30	11/3/2015	United States Postal Service

Qty Ordered	Qty Shipped	Back-Ordered	Item Code Description	Unit Price	Extended Price
1	1		WEBGENMANAGEVAL General Manager Evaluations	55.00	55.00

Line Item Total	Freight	Handling	Restocking/ Cancellation Fee	Tax	Subtotal	Amount Received	Amount Due
55.00					55.00	55.00	0.00

Summary of the EBDA Commission Meeting
Thursday, January 14, 2016, at 9:30 a.m.
Prepared by: P. Eldredge

- Commissioners Dias, Handley, 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 Mangers Report -** General Manager Connor advised the Commission that over the next few months EBDA will be concentrating its energy on the expected wet weather flows.

- **Managers Advisory Committee (MAC)** met with General Manager Connor on January 13, 2016. The MAC continued its discussion of the HEPS Draft Cost Benefit Analysis. Kennedy Jenks' final report will be brought to the Committees spring 2016.

- **Financial Management Committee** approved the December list of disbursements and Treasurer's Report at the meeting of January 14, 2016. In addition, the Committee reviewed EBDA's pooled liability program costs and the budget schedule. Lastly, the Finance Committee also reviewed EBDA's CalPERS pension plan annual valuation report. The General Manager advised the Commission that both the Finance and Personnel Committees agree that it would be fiscally prudent to pay a lump sum payment towards the unfunded liability. This is a budgetary item that will be included, either by a FY 2015/16 budget amendment or in the FY 2016/17 budget proposal.

- **Regulatory Affairs Committee** met on January 12, 2016. The Committee reviewed permit compliance and EBDA's report on the Water Board on the outfall repair. The Committee congratulated EBDA's General Manager on his recent nomination for the Bay Heroes Award for his work on practical adaptations to climate change. Lastly, the Committee expressed its support for Commission approval of a resolution authorizing a purchase order to Azyura for reporting services.

- **Operations and Maintenance (O&M) Committee** met on January 11, 2016, and was updated on EBDA performance. The Committee reviewed the mid-year recap of EBDA's FY 2015/16 Renewal Replacement Fund. The mid-year estimated expenditures for fiscal year 2015/16 are $359,158. A request for proposal, for the AEPS Variable Frequency Drive

project, was sent out in January 2016 and the bid opening is scheduled on February 11, 2016.

- **Personnel Committee** met on January 11, 2016. The Committee congratulated Michael Connor on his appointment to the board of the Water Environment Research Foundation. His three-year term of office is January 1, 2016 to December 31, 2018. The Personnel Committee discussed EBDA's CalPERS pension plan annual valuation report. As of June 30, 2016, EBDA's unfunded liability is $455,575. EBDA staff has asked the CalPERS actuary to develop three scenarios for a lump sum pre-payment of the unfunded accrued liability. The scenarios will be presented to the Committees in February. Lastly, the Committee supports the General Manager's FY 2016/17 budget assumptions for wages and benefits.

- **Ad Hoc Committee** met on January 13, 2016 to discuss EBDA's long term capital costs as a function of flows and transport system capacity. The General Manager will provide specific flow data to the Ad Hoc Committee in the coming months.

The Commission unanimously passed the following:

- Commissioner Prola moved to approve the revised resolution, authorizing a purchase order for calendar year 2016 to Azyura in the amount of $15,000 for licensing and report services. The motion was seconded by Commissioner Peixoto and carried unanimously, 5-0. (Handley, Johnson, Prola, Peixoto, Dias; ayes).

Information items from the Commission and Staff:

David Stoops advised the Commission of wet weather events expected through Monday, January 18. Ray Busch announced that the City of Hayward's Water Pollution Control Facility has received both the Bay Section Plant of the Year award and the Collection System of the Year award.

cost of private equity managers: $1 billion

CalPERS

Investments paying off, officials of the state's pension fund assert

By Dale Kasler

Sacramento Bee

CalPERS on Tuesday released long-anticipated figures on how much it pays the companies that manage its private equity investments: more than $1 billion in the latest fiscal year. Pension fund officials said CalPERS earned a $4.1 billion profit from those investments. The release came after the California Public Employees' Retirement System was criticized by some in the financial community after acknowledging earlier this year that it didn't know how much it was paying in management fees on its private equity portfolio.

The disclosure also comes at a time of heightened scrutiny generally about CalPERS' investments. The $295.2 billion pension fund's board voted last week to move gradually to a less aggressive investment posture to cushion CalPERS against big losses. The decision will probably translate into lower yearto- year profits, prompting CalPERS to impose higher contribution rates on taxpayers and employees.

Nearly 10 percent of its portfolio, or $27.5 billion, is invested in private equity — companies whose shares aren't publicly traded. Public pension funds such as CalPERS have long disclosed how much they pay in "base" fees to the firms that manage their private equity holdings. But what's been unknown is how much they pay in profit-sharing, also known as "carried interest." While the outside management firms generally keep about 20 percent of the profits, those fees are embedded in the returns shipped to the pension funds and aren't broken out precisely.

As it turns out, CalPERS' outside investment managers collected $700 million in profit-sharing during the fiscal year that ended in June. In addition, CalPERS spokesman Joe De-Anda said the pension fund paid those firms roughly $440 million in "base" fees; precise figures haven't yet been released.

CalPERS officials said the figures show that private equity investments are paying off. "Private equity has the highest net returns in our portfolio," Ted Eliopoulos, chief investment officer, said in a statement. "As a long-term investor, it is an important piece of our investment strategy."

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November 27, 2015

Water districts look for financial relief

Conservation restrictions

Drought rules have resulted in less revenue for many agencies

By Matt Stevens

Los Angeles Times

Complying with an emergency order to cut water use 36 percent has cost the Yorba Linda Water District in more ways than one.

Financially, spokesman Damon Micalizzi said, it has cost millions in lost revenue and brought the agency "to its knees." Then there's the political cost of raising rates to cover the deficit.

"Everybody was ecstatic," Micalizzi quipped.

Seven months after state regulators drew up their plan to achieve a statewide reduction in urban water use, Yorba Linda Water District and its counterparts will get their first formal chance to ask for relief.

Gov. Jerry Brown's latest executive order provisionally extends California's drought restrictions into next fall and calls on the State Water Resources Control Board to consider adjusting the rules in the coming weeks.

So far, input from local water agencies and environmental think tanks has been diverse and sometimes conflicting.

"What is the state staff going to do with the information?" said Charles Gibson, a board director at Orange County's Santa Margarita Water District. "I think anybody you ask is going to say they're concerned. … There's this great uncertainty."

The discussions will feel like deja vu.

State regulators spent much of a frenzied April conducting meetings, gathering comments and ultimately developing a tiered system that assigns different conservation "standards" to each of the state's 411 urban water suppliers.

Under the regulations, water districts with a history of high residential use were told to cut back as much as 36 percent, while other less thirsty cities and towns were required to cut as little as 4 percent.

The board and its staff took heat at the time for not considering factors such as climate, population growth and water conservation efforts before 2013.

But local water districts largely accepted regulators' demands, acknowledging that they were pressed for time and facing an emergency.

To address districts' unresolved concerns, the board convened a group of several dozen water officials and experts. Beginning in August, the group set out to consider the next steps for the emergency regulations, which expire Feb. 13.

November 27, 2015

Two weeks ago, Brown ordered the water board to extend the rules until Oct. 31 if drought conditions continue through January, which the water board's Max Gomberg said is a "near certainty."

Those conditions could change rapidly this winter depending on the effect of an El Niño that is expected to dump rain on much of the state.

Brown's order "really gives us the flexibility we need … to look at the winter conditions and make a determination" about whether to raise or lower the 25 percent water-savings target, said Gomberg, the board's climate and conservation manager.

Exactly what the regulators will do is unclear. In letters to the water board and interviews, officials at local water districts asked for many of the same allowances they called for in the spring.

Many districts asked to receive adjustments or credits based on their local conditions and for their investments in developing new water supplies.

The board will hold its first public workshop Dec. 7 to discuss changes to the regulation, but staff is unlikely to make any formal proposal until mid- to late January, Gomberg said.

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December 2015

California, other states score poorly in government integrity

Were the stunningly poor results of the Center for Public Integrity's recent nationwide government integrity audit a surprise? Not if you've been paying attention.

California scored a C- overall and an F specifically in access to public information. Let's face it, if California were a high school junior making life decisions, its guidance counselor would be desperately urging remediation.

But then there are the other 49 kids in our class. Comparatively, they'd make us look pretty good. We'd be the salutatorian in fact. Number two. But considering 47 others scored D+ or less, we'd have nothing to boast about. Our appearance of success would be callow, tinny, false.

Then there's the school. Call it the United States of America. The grades show it's broken, its culture rank, with no emphasis on success. Like failed schools everywhere, students just churn through. Social promotion abounds. It's a mill, handing out worthless diplomas in recalcitrance and penetralia.

But what of the parents who tolerate it? More at fault than the institution, they've ignored years of mediocrity and outright failure. They've refused engagement, holding neither student nor school accountable. They are the true culprit. They are us.

If there is a core subject on which all other classes are based, it would be access to public information. Without it, it's impossible to master accountability, or understand how to eradicate corruption. Here, California scored a 44, a complete failure.

Big factors included our state's lack of an appeal process for denied access requests other than lawsuits, our lack of any independent governmental oversight of access, and lack of laws requiring the posting or release of records in open data formats.

The only thing that kept the grade from being any lower is that the audit didn't, and in reality couldn't, plumb specific transparency issues at California's thousands of local agencies.

There are more than 800 public agencies in the Bay Area alone. Their achieving even a collective 44 would be quite unlikely. There are just too many with bureaucracies that seem to exist only for the betterment and protection of the gluttons within.

The cities of San Ramon, Berkeley, Pittsburg and Milpitas race immediately to mind. So does the Town of Fairfax, the West Contra Costa and Mt. Diablo unified school districts, BART, SAMTrans, and the tony little burg of Monte Sereno. They are a just a few of the kids in class who drag others down.

Oakland and other governments have spent public dollars on idiotic software that enables them to treat public records requests like back orders at Amazon. No communication directly with people. There's little recourse and the chilling effect of others being able to scroll through everyone else's open requests. Talk about ways to make the public simply surrender, democracy be damned. Failure must be pinned here also.

It's surprising some of our classmates didn't score better. With far better access laws than California's, Florida and Texas should have been much better prepared for this test. But they got F's too. Utah passed. (Utah?) So did Iowa, which has an independent Public Information Board bearing

powers to issue fines and order records released. But California's headmaster, Jerry Brown, would rather burn the state down to the stumps and foundations than have such a body. So would all California governors in recent memory.

That no state in America, no kid in our class, can break a C in government transparency is more maddening than depressing. The curriculum needs to be scrapped and started over. But how can we trust the same people who got us here to fix anything? We can't.

The key to reform is to take the government as far out of the decision-making process as possible. Should the people within halls of power be allowed to make and enforce transparency rules that apply to their own work? Of course not.

Inmates, as the saying goes, have run the asylum long enough. The grades show it's time to admit the failures, replace the teachers, involve the parents and find the intellectual courage to start school over. *Thomas Peele is an investigative reporter for this newspaper and teaches classes on public records at the UC Berkeley Graduate School of Journalism. Follow him at Twitter.com/Thomas_ peele. Email him at Tpeele@bayareanewsgroup.com.*

Daniel Borenstein's column will not appear in today's edition

THE WATCHDOG

THOMAS PEELE

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Beau Goldie resigns as water district CEO

Posted: Tuesday, January 19, 2016 4:24 pm

Beau Goldie

Longtime Santa Clara Valley Water District CEO Beau Goldie, a Morgan Hill resident, announced his resignation from the water management and flood protection agency Jan. 15.

Goldie made the announcement jointly with SCVWD Board of Directors Chair Barbara Keegan.

"It has been a privilege and an honor to have served at the district, and I am very proud of what district employees and its management teams have accomplished together on behalf of our customers and communities in Santa Clara County," Goldie said in the statement.

Keegan added, "The board would like to take this opportunity to thank Mr. Goldie for his 31 years of dedicated service to the Santa Clara Valley Water District. During his tenure as CEO, he brought stability to the organization and delivered high quality services to the people of our community. The board appreciates all the contributions Mr. Goldie has made and we wish him the very best in his retirement."

Goldie was CEO of the water district for about seven years. SCVWD provides drinking water and flood protection for the county's 1.9 million residents and has a budget of about $400 million.

The statement did not mention that Goldie has been under fire from the media, the SCVWD board of directors and even the district attorney' office in recent months.

Goldie has been accused of hiring a contractor—RMC Water and Environment—that is partially owned by the husband of Melanie Richardson, one of Goldie's top deputies at SCVWD. He has been further accused of allowing RMC to fraudulently bill the water district for work it had not completed. Only weeks before Goldie signed a single-source contract with RMC in April for a

water recycling project, former Monterey County water board member Steve Collins pleaded no contest to accepting about $160,000 in illegal payments from RMC.

The joint announcement by Goldie and Keegan followed a Jan. 14 closed session meeting of the SCVWD board.

Keegan listed the following among Goldie's achievements during his tenure with SCVWD:

- Opening of the Silicon Valley Advanced Water Purification Center;
- Establishing the district as a leader in the state in terms of drought response;
- Accelerating a purified water program to develop drought-proof supplies to help with future droughts and climate change impacts;
- Seeing the successful passage and early implementation of the 15-year Safe, Clean Water and Natural Flood Protection Program, which voters passed with nearly 74% support in November 2012;
- Improving the Asset Management Program to protect and efficiently maintain investment in district assets;
- Developing and implementing programs to ensure a sustainable workforce in the future as a wave of Baby Boomer retirements is expected; and
- Improving organizational performance and transparency through a comprehensive Management Audit Program.

The "acting CEO" position will be filled on a rotating basis by the three chief operating officers (COO) starting with COO Jim Fiedler, continued the SCVWD statement. This rotation will continue until an interim CEO can be selected. The interim CEO will be chosen from internal candidates. The intent is for the interim CEO to serve until the board can select a permanent CEO.

The Argus
January 20, 2016

California water

Testing to recharge aquifers

UC Davis diverts storm drain flow to replenish underground supply

By Lisa M. Krieger

lkrieger@mercurynews.com

MODESTO — In an effort to restore California's desperately depleted ancient aquifers, scientists are testing an approach that seizes surplus winter rain and delivers it to where it's most useful: idle farms and fields. On Tuesday, roiling muddy water from the storm drains of the city of Modesto flooded an almond orchard, where UC Davis researchers will track its progress as it slowly percolates — over weeks, months, even years — into a 45-foot-deep underground reservoir. "If we can recharge our basin during the wet years, that's water we have banked away for dry years," said farmer Nick Blom, who authorized the experiment on his orchards southwest of Modesto, where hundreds of trees are in winter slumber. The UC Davis team seeks to answer some hard questions: Is the water clean enough? Will it drown the valuable trees? Could it introduce waterborne diseases or make trees more vulnerable to insect pests?

If the technique is proven safe and effective, the scientists will encourage its broader use on California's 3.5 million to 5.6 million acres of suitable soils. The approach replicates Mother Nature's eons-old pattern, with wet winter storms restoring the state's depleted aquifers. But this balance has been upset by excess agricultural and urban "overdrafting" of this water supply. In short, we're taking more than we're giving. Both farmers and state water experts urgently need a solution to the problem, which has stressed 21 of the state's aquifers, especially in the southern San Joaquin area of Tulare County. In some areas, it is so severe that the land is subsiding — permanently in some cases.

The state's first-ever ground water protection law, passed by the Legislature in 2014, calls for "sustainable" aquifer management, said Helen Dahlke, assistant professor of the UC Davis department of land, air and water resources.

To achieve the necessary balance between supply and demand, it's not enough for farmers to simply reduce how much water they pump; they also need to return the water to its source, she said.

That's a tall order for many agriculturally rich parts of the state, especially the most arid regions.

If this experiment works, scientists envision pulling floodwaters off rivers like the Sacramento and diverting them to dry regions via the state's vast network of canals. This would not only ease the risk of flooding but could also deliver water to drought-ravaged parts of the state.

Meanwhile, farmers elsewhere are enlisting other approaches. In the Pajaro Valley, farmers have dug small "percolation ponds" on the edges of their fields. Along the Consumnes River and Yolo Bypass, there are newly widened levee setbacks, giving river water more time to drain and recede.

“Hopefully, we can come up with a system so we can at least maintain the water table where it is right now,” Dahlke said.

Such recharge strategies could face political, legal and economic challenges, the UC Davis team says.

Many people claim rights to the state’s water the moment it lands from the sky. And the delivery canals aren’t historically available in the winter. This is the time when they are cleaned and maintained.

Tuesday’s experiment — flooding a 5-acre field with 6 inches of water — was possible only because the Modesto Irrigation District provides water to both the city of Modesto and surrounding farms.

So it has control over water use and also has access to the intricate web of delivery canals.

If not diverted to the Blom farm, the storm drain water would have flowed into the nearby Tuolumne River. The experiment is funded by the Almond Board of California.

Scientists will monitor any root damage with underground cameras inserted 3 feet deep through plastic tubes. They will also watch next spring to see if the trees bloom and leaf normally. And they will measure the orchard’s almond production to see if yields decline.

To track water flow rates, they use temperature sensors; water retains heat more than the surrounding soil.

And they will test the loamy soil to make sure the water isn’t delivering nitrates, salts or dangerous pollutants.

Almond trees are flooded on Tuesday in Modesto as part of an experiment by UC Davis scientists that diverts storm drain water into idle orchards during the winter. The hope is the water will seep into underground reservoirs and add to the state’s treatable supply.

The End of Wastewater: Sustainable infrastructure for an urban estuary

January 20, 2016

The end of the pipe solution means ending the pipe, says Dr. David Sedlak, but he warns newer wastewater treatment processes do present challenges

Dr. David Sedlak is a Professor of Environmental and Civil Engineering at UC Berkeley and Co-Director of the Berkeley Water Center. His research focuses on fate of chemical contaminants, with the long-term goal of developing cost-effective, safe, and sustainable systems to manage water resources. Dr. Sedlak and is the author of "Water 4.0", a book that examines the ways in which we can gain insight into current water issues by understanding the history of urban water systems.

Increasing demands for water in recent years have led to a greater appreciation of the value of municipal wastewater as a source of water, resources and energy. Coinciding with this change in attitude, much of the Bay Area's wastewater infrastructure has reached the end of its useful like, while other area treatment plants are vulnerable to sea level rise. As the Bay Area readies to replace its aging and vulnerable wastewater infrastructure, these facilities will likely be replaced by state-of-the-art resource recovery facilities that will extract water, energy and fertilizer from sewage, and the effect of this new infrastructure on San Francisco Bay is uncertain. At the State of the Estuary conference last fall, Dr. David Sedlak spoke about the challenges and opportunities this new infrastructure presents.

Dr. David Sedlak began by recalling that he grew up in a town called Oyster Bay on the northern shore of Long Island. "*As a child growing up, I realized that I wanted to protect, restore, and study Oyster Bay and Long Island Sound and so I went to college with that in mind,*" he said. "*Somewhere along the lines, I got seduced by engineering and this idea that engineers are better respected and better paid by society. And somewhere along the line, I also learned that engineers are also the ones who advise the decision makers who build the infrastructure that has the greatest impact on pollution in these systems that are so near and dear to me.*"

"*So today, I want to try to use some of these experiences to tell you about the three phases that our relationship to SF Bay have gone through, and the coming new phase and the way we can understand the investments in infrastructure that are likely to occur and their likely effect on the Bay itself,*" he said.

Dr. Sedlak turned to the three phases they have already been through with the Bay. The first phase was the pre-development phase when there wasn't a lot of people here. That was followed by the development phase was when there was population growth and the Bay was used to dispose of wastes, such as cannery waste, industrial waste, and sewage – a legacy we are still dealing with today, he noted. During the third phase, the Clean Water Act phase, society woke up to the problems of dissolved oxygen depletion, nutrients, and contaminants going into the Bay, and major investments in wastewater treatment infrastructure were made.

"*The events of the last decade have shown me that we're about to enter a fourth phase, and that fourth phase is going to involve major investments in infrastructure and lead to a fundamental change in the way we interact with the Bay,*" he said. "*There are unresolved questions, and there are issues for people who are interested in studying, understanding, and protecting the Bay that they have to be aware of that come from this world of engineering that I'm now part of.*"

Dr. Sedlak pointed out that the word 'wastewater' is made up of two words: waste and water. "*One of the first things we teach young engineers when they go to college is that waste is a really interesting concept,*" he said. "*To a chemical engineer, the difference between waste and profit is being able to sell all the stuff that comes out of a manufacturing process to someone to use in the next phase of their process, and what that material doesn't have enough economic value, it becomes waste and it affects the economics of your whole system.*"

"*The reason that things become waste is because no one has a good use for it, the uses that there are don't command enough money to make it worthwhile to do, or there hasn't been an external event that causes you to rethink your treatment process to improve the quality of the material that's coming out of your process such that someone would want to use it,*" he continued. "*As society develops and we think more about sustainability and pollution control, and we have more competition for resources on the planet, the idea of waste is going to apply to fewer and fewer things that we deal with.*"

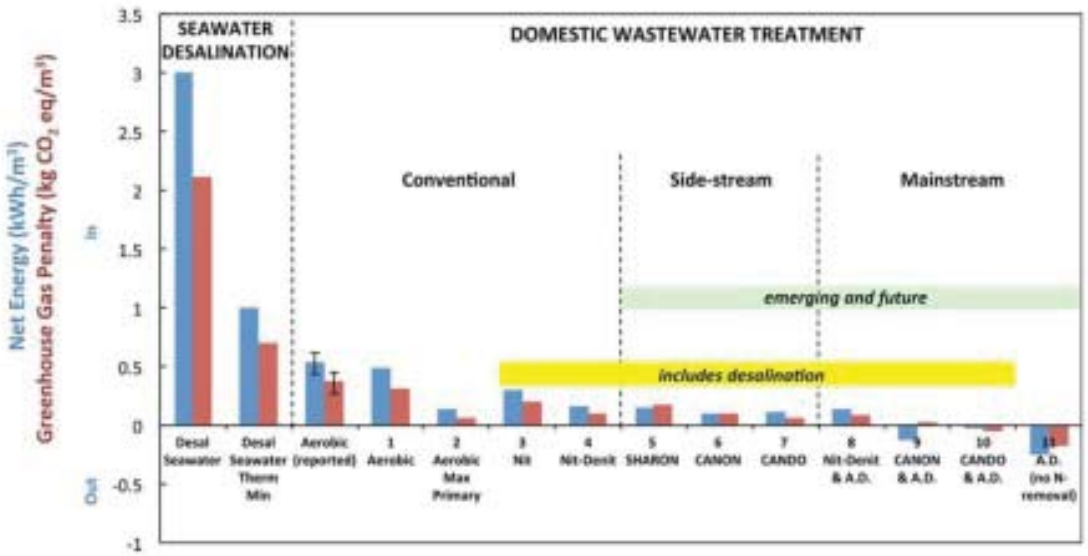
The second part of wastewater is water, and it's kind of a funny word, he said. "*The stuff that comes out of sewage treatment plants is 99.99% water; it has trace amounts of other things in it,*" he said. "*We have technologies that can turn that into valuable water. In some places such as Singapore, the*

stuff that comes out of the sewage treatment plant gets treated so much that it's used in semiconductor manufacturing and in the manufacturing of pharmaceuticals, so this stuff that comes out of our wastewater treatment plants is primarily water and we have the means of removing those contaminants; we just have to set our minds to it."

Dr. Sedlak said with that in mind, he would talk about three lessons from the last decade and the way in which he thinks they'll apply to San Francisco Bay:

Lesson #1: Don't waste water. "*Well that's obvious to everyone here,*" he said, presenting a picture of dry Folsom reservoir. "*This feeds into this idea of waste. This water is becoming more and more valuable, and in this current drought, no matter how bad El Nino is this year, this is coming back again because the predictions that we have from climate change models of the effects on our snowpack, the predictions are of long-term droughts being more common than we ever thought.*"

"This water is going to become more and more valuable and Northern California has to take lessons from Southern California where they've been aware of the value of water and the insecurity of their imported water supply for at least two decades longer than we've been thinking about it, so that's the first lesson – we're not going to waste water in the future."



Scherson and Criddle (2014)
ES&T, 48: 8420-8432.

Lesson #2: Don't waste energy. "*California is getting serious about solving the greenhouse gas problem*," Dr. Sedlak said. "*There are a lots of places that society is going to have to change in response to climate change and reducing greenhouse gas emissions. In terms of the stuff that comes out of those things we used to call wastewater treatment plants, we're going to look to make those more energy efficient in the future … The operators of those treatment plants are going to look towards the organic matter that's in the wastewater and turn it into energy*."

"*This figure shows that our current aerobic wastewater treatment plants use about a half a kilowatt hour per cubic meter to treat water, but if we go to anaerobic treatment processes and using the nitrogen in the wastewater for energy and producing biogases, we can make those actually energy positive*," he said. "*We're going to see a lot more pressure to do that kind of thing*."

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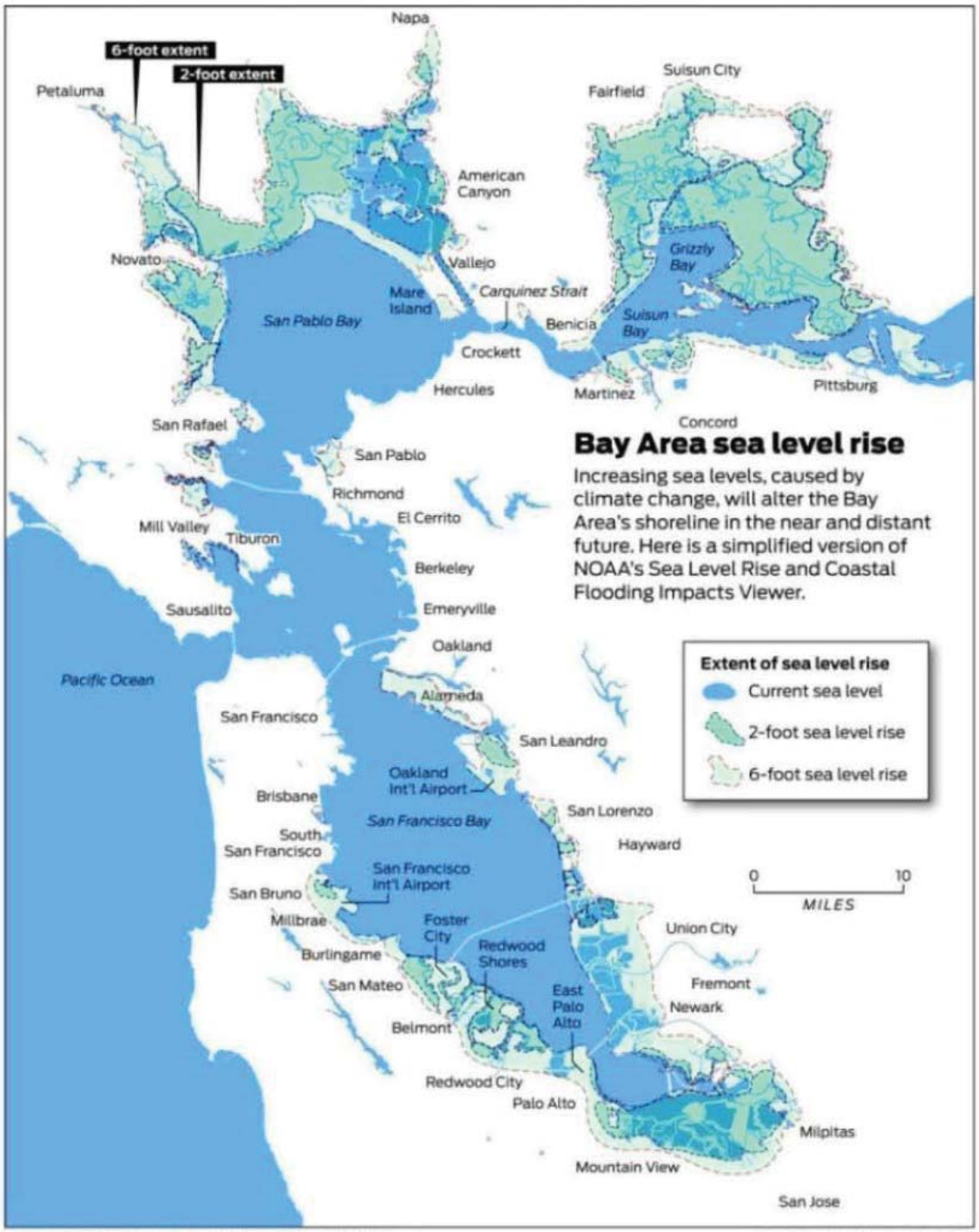


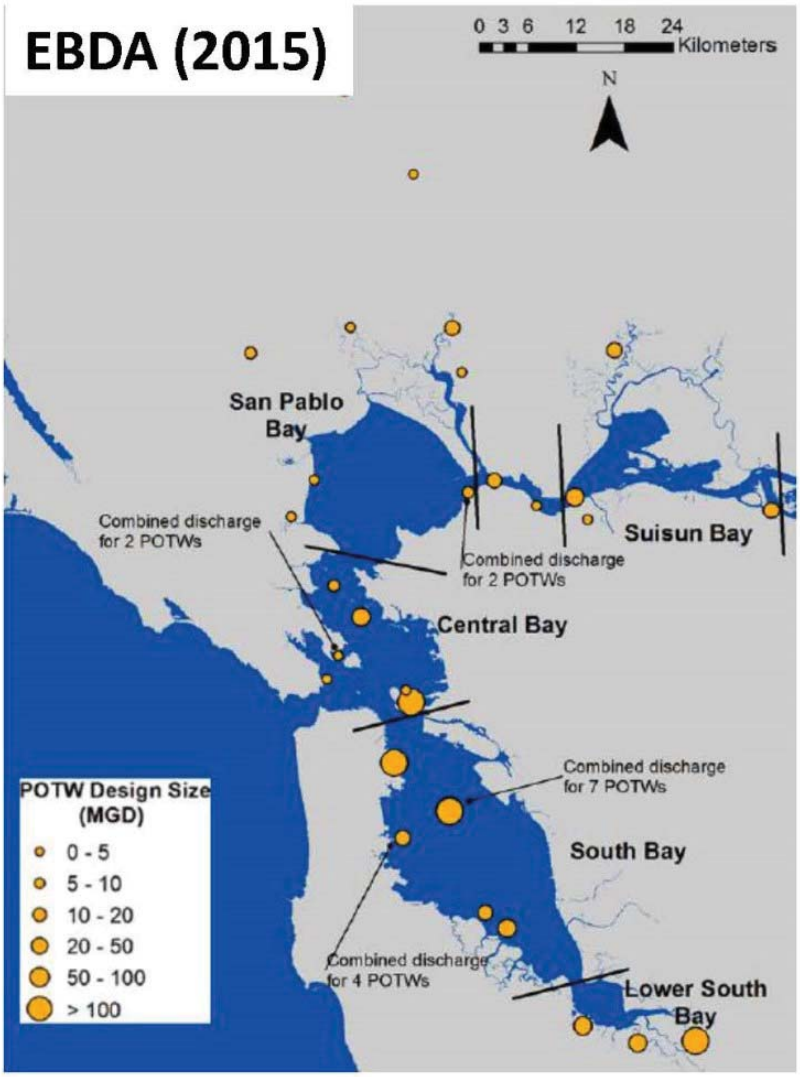
Lesson 3. Don't waste an opportunity. The Sunnyvale Wastewater Treatment Plant and the San Francisco Water Treatment Plant demonstrate two different problems. "*The first is that our treatment plants are obsolete,*" he said. "*The Sunnyvale treatment plant is a mechanical treatment plant with an algal pond system and it is clearly obsolete. It was built a long time ago and if we want to meet the new standards we've come to expect, we have to just knock it down and replace it with something*

http://mavensnotebook.com/2016/01/20/the-end-of-wastewater-sustainable-infrastructure-for-an-urban-estuary/

else. We have an opportunity to not build the things that we know don't work so well. We have the opportunity to implement new technologies that are going to help us realize our goals of this new type of water relationship that we're going to have with the Bay."

The San Francisco Wastewater Treatment Plant is an example of wastewater infrastructure in the front lines of sea level rise and flooding, he pointed out. "*We're going to have to march our wastewater infrastructure away from the Bay and in the process, there's going to be an opportunity to build something different*," he said.

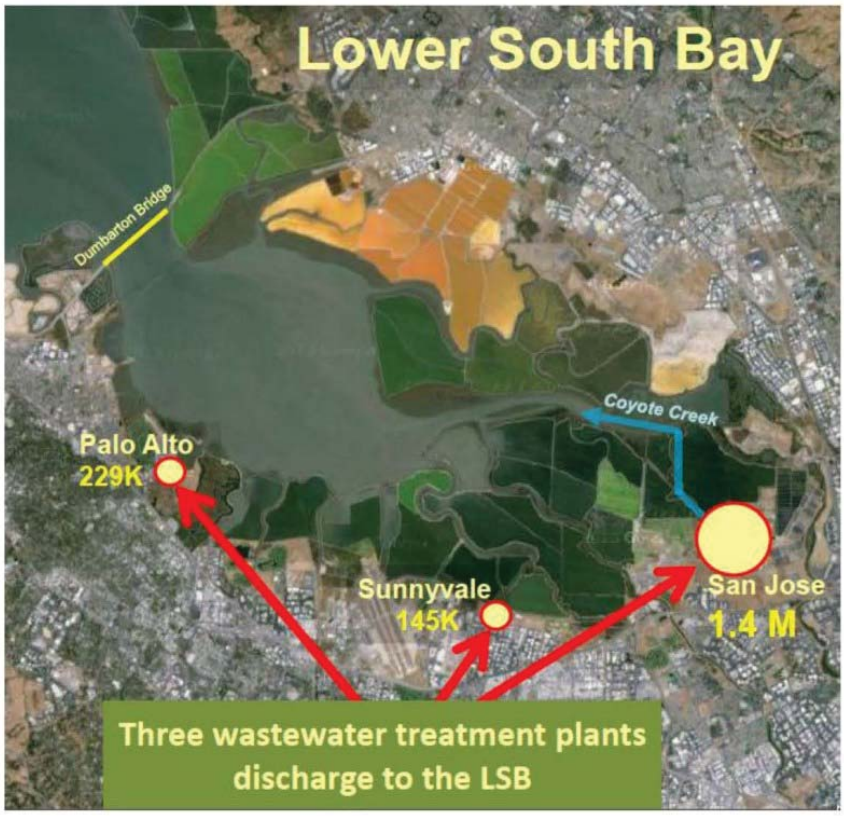
Dr. Sedlak then took those lessons and spoke about how they apply to the San Francisco Bay.



He presented a map showing where wastewater goes into the Bay, noting that he didn't think anywhere near the same volume of water will flow into the Bay in 30 years. Some of it is being reused right now in purple pipe for landscape irrigation. "*That process just takes the water out of the*

bay and all the contaminants and salts out of the bay too, so if someone in Dublin San Ramon has a purple pipe project and they do landscape irrigation, that is water that used to go into the bay that doesn't go there anymore. When we look at the EBDA pipeline, we can see decreases in the flows in the summertime because more and more of that water is being recycled."

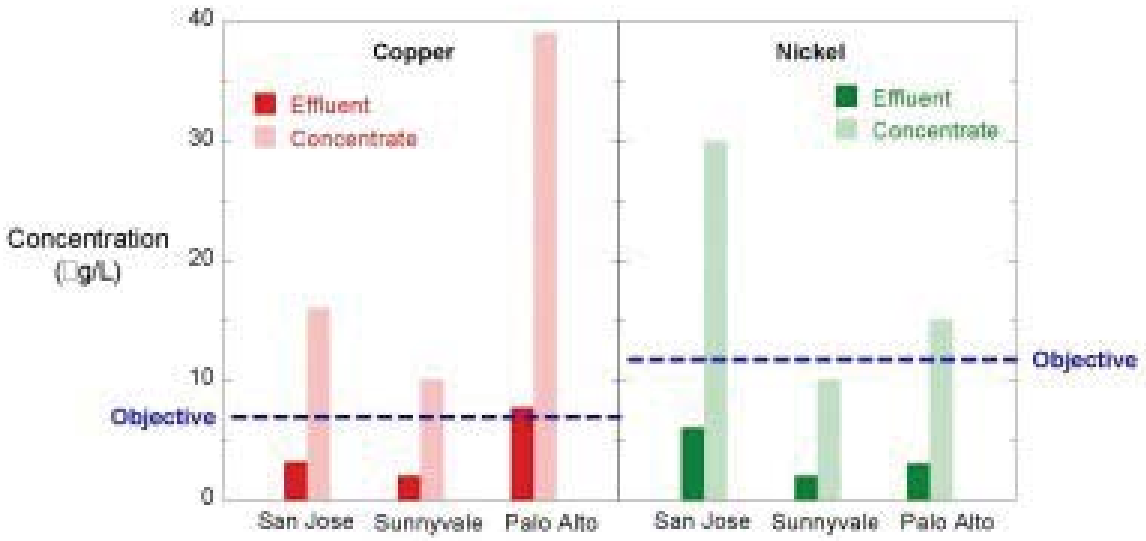
But the purple pipe approach is not going to keep growing in the future. "*All signs are that we're going to value that wastewater to such degree that we're going to use it for potable water reuse, and when you do potable water reuse, you use reverse osmosis membranes that produce a brine concentrate*," he said. "*They take everything out of the water – the salts, those emerging contaminants you've heard about, the nutrients that people are starting to worry about; then you have this concentrate that has to be disposed of in some way. The logical place to put that is back into the bay, and so now we might be actually reducing the dilution water that would lower the concentrations of contaminants*."



Source: City of San Jose

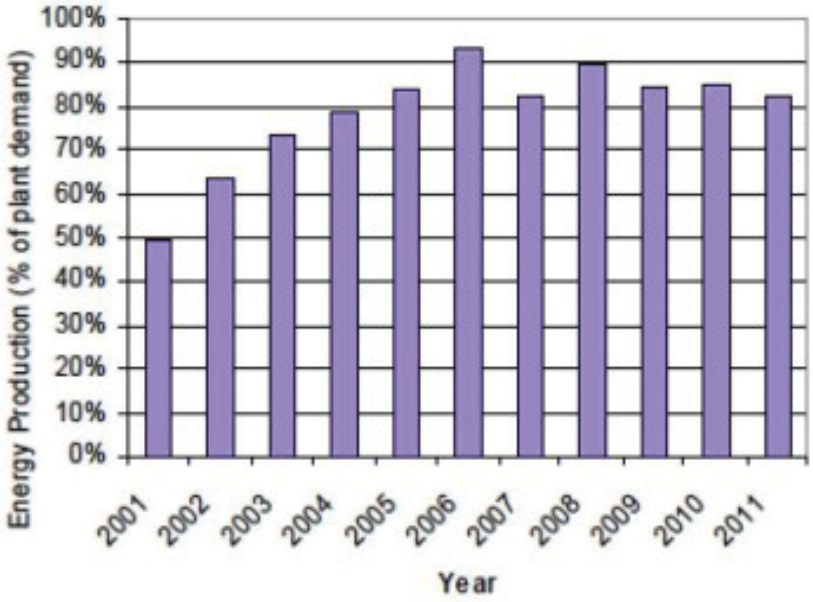
He then presented a map of the lower South Bay below Dumbarton Bridge, noting that this part of the Bay is particularly susceptible to the effects of contaminants because there is very little dilution. He noted said the three cities that discharge their wastewater to the area south of the Dumbarton Bridge. Recently the Silicon Valley Advanced Water Purification Plant was completed. "*They want*

to use the water from the San Jose treatment plant as a drinking water supply, and when they are done with it, they want to put the concentrate back in the Bay, so that is an issue that we need to think about and anticipate."



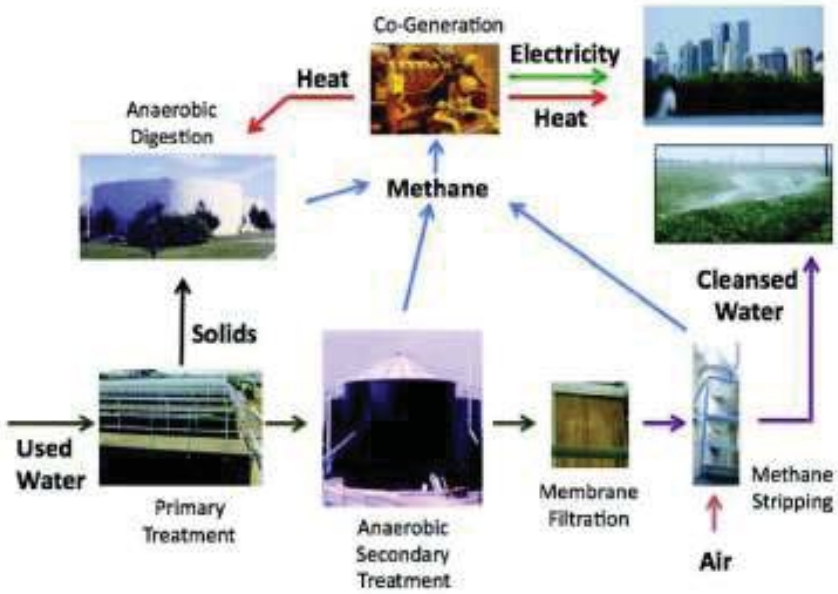
"*Let me just give you one example of what this could mean,*" he said, presenting a slide showing copper and nickel present in effluent versus concentrate. "*Remember how copper and nickel in the South Bay was an issue at these meetings until we made a site specific criteria? The dark colored bars are the concentrations of copper and nickel going into the bay from the south bay treatment plants now, and compares them to the site specific water quality objective that we have for saltwater discharges. If those cities succeed in water recycling in recycling 80% of the water that's now wastewater, that's what's going to happen to their concentrations? The same mass loading of metals will occur, but the concentrations will be higher. Is this an issue? Do we need to deal with this? Do we need to force those cities to build a pipe to go north of the bridge and dilute the water? Because if we do that, that project might not happen at all, so we need to think about what numbers make sense.*"

"*The same applies to everything else in the wastewater,*" he continued. "*The nutrients are going to be concentrated, the steroid hormones are going to be concentrated, contaminants are going to be concentrated – we haven't resolved that issue yet.*"



EBMUD (2011)

With respect to the energy issue, Oakland's East Bay MUD has done a remarkable job converting their treatment plant so it's energy positive, Dr. Sedlak said. "*They use their excess anaerobic digester capacity to turn organic matter into biogas, methane essentially, and they can use this to generate electricity. The chart shows you the percentage of East Bay MUDs electricity that they've been able to generate through this program in the last ten years. One of the tricks to doing this is to invite people to bring their waste to East Bay MUD to put in the digesters, and when they do that, they are inviting chicken blood and winery waste and waste from the food industry into their digesters and that's often very proteinaseous in nature which means it has a lot of nitrogen, and so over time you see the nutrient levels in the effluent creeping up. So if everyone starts treating their wastewater treatment plants to maximize the energy recovery by bringing in materials, we might see an increase in nutrient concentrations.*"



McCarty et al. (2011)
ES&T, 45: 7100-7106.

"*Alternatively, we might start applying some of the newest developments in wastewater treatments to make full scale, full anaerobic wastewater treatment plants,*" he said. "*They are able to treat wastewater without bubbling air into it like we currently do today and to produce energy. That raises some interesting questions as we rebuild our wastewater infrastructure, if we want to do this to maximize energy, how do these new treatment plants perform with respect to removing the contaminants that we're worried about?*"

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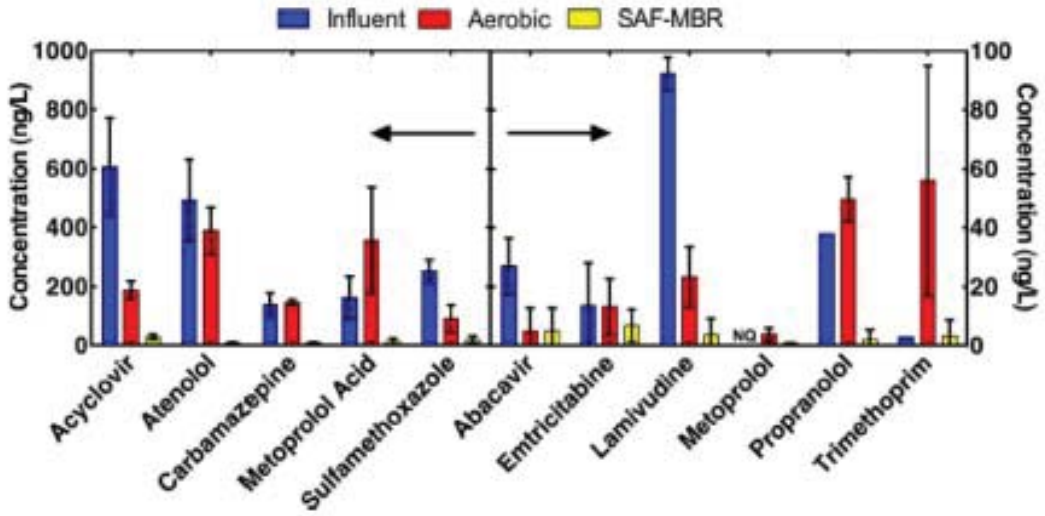

McCurry et al., 2014
ES&T Letters, 1: 459-464.

About a year ago, the concentrations of pharmaceuticals were studied in a pilot scale anaerobic treatment plant, he said. "*What we saw in all cases is that SAFMBR plant achieved much better removals of contaminants that the conventional activated sludge plant that was running side by side, so there might be an added benefit of these new kinds of treatment plants in terms of removing the contaminants of emerging concern that we're interested in studying now*."

"*Remember when we used to say the end of the pipe solution and we meant that we put all of our waste out of the pipe and that was the solution?*," he said. "*Well, now the end of the pipe solution means ending the pipe. That is, in the future, when we think about sea level rise and its effect on our infrastructure, we may just want to get rid of those discharge pipes completely*."

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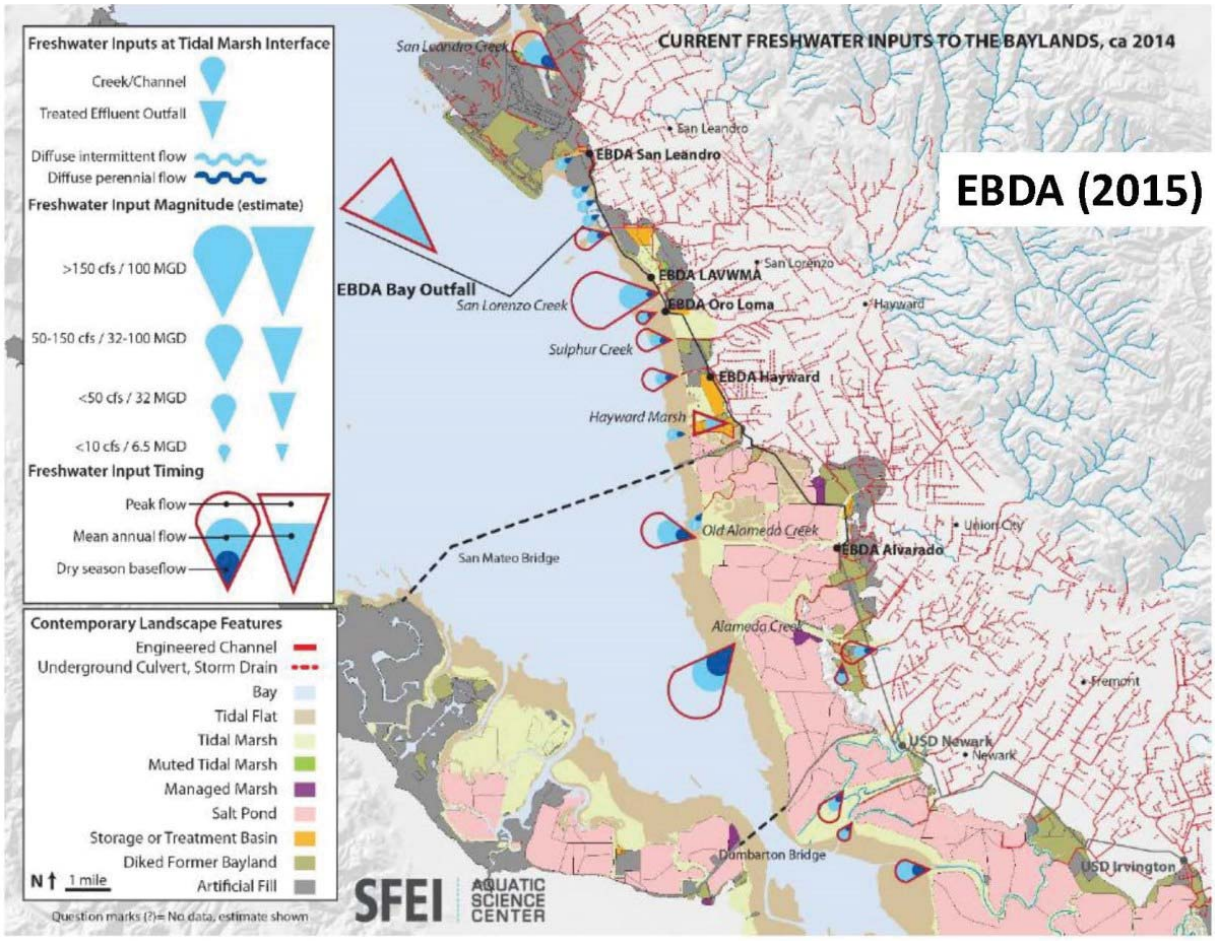

He presented a map from EBDA that looked at what the discharges to the Bay look like today versus predevelopment times. "*The idea here is that we might be able to use this opportunity of rebuilding our wastewater treatment plants to use this water as part of our restoration efforts, instead of discharging to the center of the bay and hoping dilution takes care of all our contaminants.*"

He then presented a slide of the Oro Loma project, which is a horizontal levee project. "*This is the idea of building a horizontal levee or a living levee in front of the existing flood control levees, bringing in bay sediments and then keeping those wetlands alive by running municipal wastewater effluent through the subsurface. In the process, you protect the levees from storm surges, you create terrestrial habitat, you polish the wastewater effluent, and you remove any residual contaminants*," he said.

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”This approach could also be applied to treating that concentrate that’s likely to come flowing out of the south bay treatment plants and any other kinds of materials we’re going to put in the bay, because we’re not worried about the salt concentration; we’re worried about all those other contaminants that are there. The Oro Loma project is getting ready to be built and we’re really looking forward to learning about these systems and helping them to actually work for us to remove contaminants and be part of this vision of a new kind of margin of the bay.”

Dr. Sedlak then shared his final thoughts. “*I only had a few minutes to talk about this but I hope I got you thinking about how the infrastructure could be really important to the way the Bay is managed in this new era,*” he said. “*First of all, the era of wastewater is ending. We’re not going to call them wastewater treatment plants because they are not. They are really resource recovery facilities, and the resource that we’re most interested in recovering is water. Water reuse is the future in the bay area because our imported water supply is in jeopardy due to climate change.”*

“*Energy and resource recovery, even though it’s not a huge amount of energy, the way the institutions are set up, they are going to go after that biogas and they are going to make it, and that’s going to be a motivation for them to bring more material in and perhaps to explore new types of*

treatment processes that might either improve or diminish the quality of water going into San Francisco Bay," he said.

"*There's this need to rebuild our obsolete treatment plants and relocate them due to the effects of sea level rise, and it would be a tragedy if we built what our grandparents built when we replace them,*" he said. "*There are so many improvements in technology and we know so much more about the problems we're going to face, I hope our shovel ready solutions are not just dusting off the plans from 40 years ago.*"

"*So we need to anticipate the effects of these investments in infrastructure on the bay,*" said Dr. Sedlak. "*Will concentrate replace wastewater effluent? It's a yin-yang good thing bad thing, the bad thing is maybe the concentrations go up; the good thing is the volume is smaller, so we have opportunities to treat it.*"

"*Will energy recovery affect water quality? Maybe the ammonia levels go up, maybe the trace organics go down, or maybe we have unexpected things that we haven't been focusing on yet because we don't have a lot of experience with anaerobic wastewater treatment? I think the overarching question that we need to pay attention to is, can our next generation of infrastructure benefit San Francisco Bay? I sure hope so.*"

"*Thank you very much for your attention.*"

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Long Beach Press Telegram (http://www.presstelegram.com)

Officials talk toilet-to-tap water recycling at Long Beach conference

By Josh Dulaney, Long Beach Press Telegram

Tuesday, January 26, 2016

The idea of turning waste water into drinking water is gaining momentum among government bodies in Southern California and across the nation, but regulators question how and when the concept will become palatable to the widespread public.

Local, state and federal officials discussed the environmental, health and financial impact of the sometimes derisively called "toilet to tap" technology, or recycled water reuse systems, during a panel session Tuesday at Renaissance Long Beach Hotel, as drought conditions and population concerns are pressing public agencies to come up with cost-effective and safe solutions to water supply problems.

Cindy Forbes, deputy director of the Division of Drinking Water for the state Water Resources Control Board, urged restraint and deep research in pursuing recycled water as a source of human consumption, and cited Flint, Michigan's lead-contaminated water supply as an example of why cities and states should be cautious.

"I think we need to be looking so that we don't have a Flint-like incident with the recycled water community," Forbes said.

The panel discussion, titled "Policy & Potable Reuse: Balancing Water Needs with Public Health Protection," took place as part of a three-day American Water Works Association conference this week, with water managers, federal and state regulators and public health experts discussing modern technologies that purify wastewater and turn it into quality drinking water.

Water agencies are drawing up new projects on a massive scale.

Metropolitan Water District of Southern California, the largest water wholesaler in the country, impacting 19 million people in parts of Los Angeles, Orange, Riverside, San Bernardino, and San Diego counties, announced last year it is in early discussions about the world's largest toilet-to-tap project.

Michael J. Adelman, an environmental engineer with MWH in Pasadena, said Monday that planning is underway for a large plant in San Diego County to use recycled water either as a nearly direct feed or in a diffused form.

But while reusable water is seen by many as one solution to water woes, regulators and public health officials demand assurances that safety is the top priority.

"Cost is important, but nothing takes priority over protecting public health," Forbes said. "I don't care how you slice it, but when you start wanting people to drink it, it better be safe."

Phil Oshida, deputy director of standards and risk management for the U.S. Environmental Protection Agency's groundwater and drinking water office, said protecting original drinking water sources, minimizing water loss in distribution systems and promoting water conservation through public education should be packaged into direct potable water reuse efforts.

Other concerns are system capacity, cost effectiveness and properly training wastewater operators, Oshida said. While not sounding an alarm, Oshida said communities need to be able to withstand viral outbreaks.

EPA officials are working with state regulators and monitoring how the states are developing direct potable water reuse systems, Oshida said.

"EPA suggests that water systems look at all possible water resources before exploring direct potable reuse technology, because the need for complex treatment technology, highly trained operators and extensive water quality monitoring may lead to additional challenges for both technological and physical viability," Oshida said.

In the city of Phoenix, Arizona, where primary sources of untreated surface water are the Salt, Verde and Colorado rivers, the water is delivered to five treatment plants before delivery to consumers.

Brandy Kelso, deputy director of water services for Phoenix, said during Tuesday's panel discussion that effective outreach to communities is important, and that the water industry has typically done a poor job of such in the past. That's especially a problem when many in the public are disinclined to trust the government, she said.

"It's not really a problem as to if we're going to have to go to direct potable reuse, but when," Kelso said.

Forbes said there are myriad issues bound up in the direct potable water reuse issue, including, especially in California, water rights disputes.

"I think it's a very big issue. And I think it's a hot button. And I think there's a lot of work ahead of us if this becomes very commonplace moving forward," Forbes said.

URL: http://www.presstelegram.com/environment-and-nature/20160126/officials-talk-toilet-to-tap-water-recycling-at-long-beach-conference

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Milpitas: City files grievance over alleged excessive costs for wastewater plant upgrades

By Ian Bauer, Milpitas Post

January 28, 2016

The city of Milpitas, which along with other agencies is served by the San Jose-Santa Clara Regional Wastewater Facility, is balking at what it considers higher, unjustified costs for a projected $2.2 billion, 30-year upgrade to the plant near the Milpitas-San Jose border.

In the past two weeks, a coalition of Milpitas and neighboring agencies served by the plant filed a grievance and a public records request for information with the plant's operators, the cities of San Jose and Santa Clara to protest the alleged overcharges.

Besides Milpitas, the other agencies include the Cupertino Sanitary District, Burbank Sanitary District, Santa Clara County Sanitation District 2-3 and the West Valley Sanitation District, which collectively serve the communities of Cupertino, Los Gatos, Campbell, Monte Sereno, Saratoga, and unincorporated areas of Santa Clara County. San Jose and Santa Clara are also served by the facility at 700 Los Esteros Road in San Jose, north of state Route 237.

On Monday, Milpitas' newly hired public relations firm, San Francisco-based Singer Associates Inc., announced the coalition of agencies -- representing a total population of about 270,000 -- contends they were being hit with millions of dollars in payments by San Jose for the first phase of the planned improvements.

"The agencies already filed a public records (request) to find out just how San Jose is spending ratepayer money. They're demanding transparency and accountability from the city," said Kevin Keane, a Singer Associates representative.

He added San Jose is "refusing to agree to an independent audit and other suggested changes to the master agreements before launching into the master plan upgrades and is

withholding support for a state low-interest loan unless the tributary agencies agree to the status quo on the contracts.

"If the agencies don't get the loans, they'll be forced to pay cash, which they can't afford and would likely lead to rate increases," Keane said.

Specifically, the claim alleges San Jose's apparent failure to update its decades-old agreements with the agencies results in the city overcharging the coalition for plant improvements. The claim further accuses San Jose of breach of contract with the agencies and that it has unfairly allocated the costs of the planned treatment plant improvements based on an improper formula.

"We're asking San Jose to incorporate changes in the master agreements that provide for an equitable allocation of cost and greater transparency in how our ratepayer funds are being used," said Steve Leonardis, a member of the West Valley Sanitation District board in a written statement released Monday. "So far they have refused to consider our amendments, so we filed a public records request to ensure transparency and accountability."

Keane said the cities of San Jose and Santa Clara have agreed to respond to the records request. "We're waiting for a response," he added.

This week, San Jose City Attorney Rick Doyle could not be reached for comment about the grievance filed by the coalition.

But the Santa Clara City Attorney's Office confirmed it had received a public records request regarding this matter.

Meanwhile, at a closed session on Jan. 19, the Milpitas City Council addressed the issue and apparently considered possible legal action in the future. After the meeting, Milpitas City Attorney Chris Diaz announced the council discussed "potential litigation involving the city's master agreement with the cities of San Jose and Santa Clara regarding wastewater services."

In past years, city staff noted the cost Milpitas would pay toward the massive upgrade to the plant would be approximately $200 million -- the city's share as a user of the facility.

Last August, when the council approved a more than 4 percent sewer rate increase, city staffers noted the wastewater treatment costs were doubling from fiscal year 2014-15 to 2015-16 because of the start of the $2.2 billion rebuilding program at the plant. Existing revenues, city staffers asserted, were insufficient to meet projected service expenses, including the city's approximate 8 percent share of the waste water rebuilding program.

"At some point we're going to have to pay the piper," Milpitas Engineering Director Steve Machida told the council prior to its vote.

California drought: State cut water use 18.3 percent in December, but since June remains on track to hit 25 percent overall goal

By Paul Rogers
progers@mercurynews.com

San Jose Mercury News

Posted:Tue Feb 02 11:58:11 MST 2016

California's water conservation habits are slipping as winter rains begin to ease but not yet end the state's historic drought.

The state's urban residents cut water use by 18.3 percent in December, compared to December 2013. That's down from 20.4 percent in November and is the lowest percentage saved in any month since June, when Gov. Jerry Brown's order took effect requiringcities and water agencies across California to reduce water use 25 percent or face fines and penalties.

State water officials noted Tuesday, however, that because of huge savings by California residents who turned off lawn sprinklers during the hot summer months, in the seven months between June and December, Californians have cumulatively cut water use 25.5 percent, meeting the governor's goal so far.

"I think the message has held," said Felicia Marcus, chairwoman of the State Water Resources Control Board in Sacramento. "People understand and have a much more sophisticated view despite the precipitation, as weird as it seems to be saying we need to conserve until we know where we are."

Marcus said she is hopeful the cumulative conservation rate will continue to hit the 25 percent target through February and that the rain and snow will continue to fall.

"We are in field goal range, but we want a touchdown," she said.

So far, since June, the state has saved 1.087 million acre feet of water, enough for 5.4 million people a year. That's enough to fill Folsom Reservoir, one of the state's largest. The state's goal is to save 1.2 million acre feet by February compared to 2013, the state's baseline year.

Regular rain and snow from one of the strongest El Niño events ever recorded have begun to fill reservoirs in Northern California and have left the Sierra snowpack at its best level in five years.

But because of the very deep rainfall deficit over the past four years, many major reservoirs are still not yet up to their historic average level for this time of year. More broadly, the El Niño weather systems that have soaked Northern California have mostly missed Southern California.

On Tuesday, San Francisco was at 100 percent of normal rainfall for this date. But Los Angeles was at only 58 percent.

That dry weather in the south showed up in Tuesday's conservation numbers.

Overall, customers of the Los Angeles Department of Water and Power cut water use 13.7 percent in December compared with December 2013. But Bay Area residents did much better. Customers of the San Jose Water Company reduced use 30.2 percent in December, while Contra Costa Water District slashed use 34.6 percent. East Bay Municipal Utility District cut use 22.2 percent, Santa Cruz 30.8 percent and Palo Alto 25.9 percent.

Given the healthy level of rainfall so far this winter, state water board officials were set to vote Tuesday afternoon on a plan to slightly relax water targets for cities and water district by allowing modest reductions in those targets for places with hot climates or places that have developed alternative water supplies, such as recycled water.

Dave Bolland, a spokesman for the Association of California Water Agencies, said the rain is wonderful but is presenting a challenge in convincing Californians to continue to conserve.

"We have a communications conundrum," he said. "It's difficult to message with the kind of rain that we are seeing."

Paul Rogers covers resources and environmental issues. Contact him at 408-920-5045. Follow him at Twitter.com/PaulRogersSJMN

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Aerial view of the Union Sanitary District landscape.

Return on Investment

CONTINUOUS TRAINING GIVES UNION SANITARY DISTRICT TEAM MEMBERS THE KNOWLEDGE AND EXPERIENCE TO STAY AT THE TOP OF THEIR FIELD

By Ann Stawski

For more than two decades, the Union Sanitary District has been winning regional and national awards for its management and operational excellence. Paul Eldredge, general manager, attributes that partly to a diligent and extensive year-round wastewater operator training program.

Set in the San Francisco Bay Area, the district is challenged by droughts, stiff environmental regulations and a growing population. Its annual budget includes funding for training, which is required for each job.

"When you make the investment, you see the return," says Eldredge. "By giving our people the best training to develop their skills and perform their jobs at peak levels, our customers receive the highest level of service."

The district, serving a population of 350,000, receives nearly 100 industrial discharges in addition to residential wastewater customers. The relatively high industrial flow presents challenges in daily operations.

TRAINING DEMANDS

The district runs its 33 mgd (design) wastewater treatment plant with 16 operators, one operations trainer, and two coaches (supervisors), all under the guidance of Armando Lopez, work group manager and former operator.

The comprehensive training includes monthly sessions consisting of 12 rotating modules that cover the entire wastewater process. The sessions include scripted components, where operators receive information and then must demonstrate technical knowledge of the processes. They are also required to perform actual job functions in hands-on and scenario-based competency testing.

"Through the training, all operators and staff understand the entire process in running the wastewater plant," says Eldredge. "We don't throw anyone into the deep end of the pool and expect them to swim."

Some employees are considered subject matter experts (SMEs) for a specific process area, such as chemical dosing and electrical. The training modules have built-in flexibility, enabling tenured employees to lead sessions in their areas of expertise.

INCLUSIVE TRAINING

The district works diligently with each employee and SME to ensure the training program's continued success. Careful monitoring and employee feedback, including suggestions for process improvement, are critical. Detailed records maintained throughout the process serve as a foundation for continual improvement.

> "When you make the investment, you see the return. By giving our people the best training to develop their skills and perform their jobs at peak levels, our customers receive the highest level of service."
>
> **PAUL ELDREDGE**

Dave Drake, a senior operator who has been with the district for more than 30 years, exemplifies how training benefits team members. Drake delivers most training modules and serves as the lead field trainer for operators.

FROM TOP TO BOTTOM: Armando Lopez (left) and Mat Grabowski repair a fill line on a sodium hypochlorite system at the Union Sanitary District plant; Doug Dattawalker explains how flushable wipes can clog sewer lines and pumps during the plant's open house; Tim Hughes opens a suction valve to a pump inside the Alvarado pump station.

He also monitors and tracks all training for the wastewater team, reporting what each member has completed and needs to accomplish.

"Dave assumes a great deal of responsibility, especially in overseeing the training regimen for new operators," says Eldredge. Part of Drake's role is to log the results of the competency training, as well as any additional instruction team members receive outside of the structured coursework.

"With Dave's oversight, we keep working with our operators to make sure they get it," Eldredge says. "We want our employees to succeed, and I honestly can't think of an instance where that hasn't happened."

TRAINING WITH OTHERS

Training goes beyond in-house sessions and fieldwork. The district encourages operators to attend training at other facilities and venues. That includes seeking higher levels of operator certification through the State Water Resources Control Board. Staff members also take part in training and educational offers by the California Water Environment Association and the Water Environment Federation.

The district also works with local and regional agencies to boost education, recognition and recruiting. For example, Union Sanitary is a signatory agency in BAYWORK, a collaboration of 28 water and wastewater utilities working to ensure workforce reliability.

Last year, the Union treatment plant hosted a BAYWORK event that offered cross-training to field operators. "Each event is different, and we participate where it makes the most sense for us," Eldredge says. "Sometimes it's field trips at plants, and other times it's training."

BAYWORK provides opportunities for internships to students at junior colleges that encourage and support the training program. "We need to attract and retain a highly qualified workforce," says Eldredge. "When our staff participates in events like these, we not only help make our employees more rounded, but also appeal to a new generation."

Team members also impart their knowledge to district residents during open houses for the community.

BEST PRACTICES

Not all training focuses on day-to-day operations. Periodically, staff members visit industrial and other private sector locations to see how processes, procedures and safety programs work in different environments. "It's helpful for our operators to learn new processes while interacting with other professionals," says Eldredge. "We can always expand our learning and can never rest on our laurels."

Eldredge and the district board continue to support training because they understand the return on investment: "Through all our work, training and education, we contribute to the region and offer our customers the highest level of service." tpo

tell us about your team

This feature in *TPO* aims to help clean-water plant leaders develop strong, cohesive operating teams. We welcome your story about team-building at your facility.

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