

UNION SANITARY DISTRICT BOARD MEETING/ UNION SANITARY DISTRICT FINANCING AUTHORITY AGENDA

Monday, July 25, 2022 Regular Meeting - 4:00 P.M.

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

Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy

Attorney

CORONAVIRUS (COVID-19) ADVISORY NOTICE

This meeting will be held pursuant to Government Code Section 54953 (as amended by AB 361), which authorizes teleconferenced meetings under the Brown Act during a proclaimed state of emergency. The Governor of California proclaimed a State of Emergency related to COVID-19 on March 4, 2020. Consistent with Government Code Section 54953, this meeting will not be physically open to the public and Board Members will be teleconferencing into the meeting. To maximize public safety while still maintaining transparency and public access, members of the public can observe the meeting by following the steps listed below, and may provide public comment by sending comments to the Board Clerk by email at assistanttogm@unionsanitary.ca.gov before or during the meeting or via voicemail by calling 510-477-7599 before 3:00 p.m. on the date of the meeting. Comments will then be read into the record, with a maximum allowance of 3 minutes per individual comment, subject to the Board President's discretion. All comments should be a maximum of 500 words, which corresponds to approximately 3 minutes of speaking time. If a comment is received after the agenda item is heard but before the close of the meeting, the comment will still be included as a part of the record of the meeting but will not be read into the record.

Any member of the public who needs accommodations should email or call the Board Clerk, assistanttogm@unionsanitary.ca.gov or 510-477-7503, who will use their best efforts to provide reasonable accommodations to provide as much accessibility as possible while also maintaining public safety in accordance with the Union Sanitary District procedure for resolving reasonable accommodation requests.

To listen to this Regular Board Meeting:

Call: 1-888-788-0099 or 1-877-853-5247

Meeting ID: 842 7859 7349 #

Participant ID: #

Click the Zoom link below to watch and listen: https://us02web.zoom.us/j/84278597349

- 1. Call to Order.
- 2. Salute to the Flag. (This item has been suspended until in-person meetings resume.)
- Roll Call.

Motion

4. Approve Minutes of the Union Sanitary District Board Meeting of July 11, 2022.

Information

- 5. June 2022 Monthly Operations Report (to be reviewed by the Budget & Finance and Legal/Community Affairs Committees).
- Written Communications.

7. Public Comment.

Public Comment is limited to three minutes per individual, with a maximum of 30 minutes per subject. If the comment relates to an agenda item, the speaker should address the Board at the time the item is considered. Speaker cards will be available in the Boardroom and are requested to be completed prior to the start of the meeting.

Motion

8. Authorize the General Manager to Execute Amendment No. 1 to Task Order No. 2 with Carollo Engineers, Inc. for the Cherry Street Pump Station Improvements Project (to be reviewed by the Engineering and Information Technology Committee).

Direction

9. Receive Information and Provide Direction Regarding the Upgrades Required to Host Hybrid Board Meetings in the Boardroom (to be reviewed by the Legal and Community Affairs Committee).

Direction

10. Receive Information and Provide Direction Regarding Environmental Compliance Administrative Fines Under Certain Circumstances (to be reviewed by the Legal and Community Affairs Committee).

Information

11. Solar and Cogeneration Facilities Operational Update (to be reviewed by the Budget and Finance Committee).

Information

12. CAL-Card 4th Quarter Activity Report *(to be reviewed by the Budget & Finance Committee).*

Information

13. Report on the East Bay Dischargers Authority Meeting of June 16, 2022.

Information

14. COVID-19 Update.

Information

15. Check Register.

Information

- 16. Committee Meeting Reports. (No Board action is taken at Committee meetings):
 - a. Budget & Finance Committee Wednesday, July 20, 2022, at 9:00 a.m.
 - Director Kite and Director Toy
 - b. Engineering and Information Technology Committee Thursday, July 21, 2022, at 11:30 a.m.
 - Director Kite and Director Lathi
 - c. Legal/Community Affairs Committee Friday, July 22, 2022, at 10:30 a.m.
 - Director Kite and Director Lathi

- d. Legislative Committee will not meet.
- e. Personnel Committee will not meet.

Information

- 17. General Manager's Report. (Information on recent issues of interest to the Board).
- 18. Other Business:
 - a. Comments and questions. *Directors can share information relating to District business and are welcome to request information from staff.*
 - b. Scheduling matters for future consideration.
- 19. Adjournment The Board will adjourn to a Board Workshop to be held virtually on Tuesday, July 26, 2022, at 4:00 p.m.
- 20. Adjournment The Board will adjourn to the next Regular Board Meeting to be held virtually on Monday, August 8, 2022, at 4:00 p.m.



BUDGET & FINANCE COMMITTEE MEETING

Committee Members: Director Kite and Director Toy

AGENDA Wednesday, July 20, 2022 9:00 A.M.

Alvarado Conference Room 5072 Benson Road Union City, CA 94587

Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy *Attorney*

This meeting will be held pursuant to Government Code Section 54953 (as amended by AB 361), which authorizes teleconferenced meetings under the Brown Act during a proclaimed state of emergency. The Governor of California proclaimed a State of Emergency related to COVID-19 on March 4, 2020. Consistent with Government Code Section 54953, this meeting will not be physically open to the public and all Board Members will be teleconferencing into the meeting via conference call. To maximize public safety while still maintaining public access, members of the public can observe the meeting by calling 510-477-6190 to listen to the committee meeting, and may provide public comment by sending comments to the Board Clerk by email anytime during the meeting at assistanttogm@unionsanitary.ca.gov or via voicemail by calling 510-477-7599 up to one hour before the scheduled meeting start time.

- Call to Order
- 2. Roll Call

3. Public Comment

Public Comment is limited to three minutes per individual, with a maximum of 30 minutes per subject. If the comment relates to an agenda item, the speaker should address the Board at the time the item is considered. Speaker cards will be available and are requested to be completed prior to the start of the meeting.

- 4. Items to be reviewed for the Regular Board meeting of July 25, 2022:
 - June 2022 Monthly Operations Report Financial Reports
 - Solar and Cogeneration Facilities Operational Update
 - CAL-Card 4th Quarter Activity Report

5. Adjournment

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



ENGINEERING AND INFORMATION TECHNOLOGY COMMITTEE MEETING

Committee Members: Director Kite and Director Lathi

Officers

Directors

Pat Kite

Anjali Lathi

Jennifer Toy

Manny Fernandez Tom Handley

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy *Attorney*

AGENDA Thursday, July 21, 2022 11:30 A.M.

Alvarado Conference Room 5072 Benson Road Union City, CA 94587

This meeting will be held pursuant to Government Code Section 54953 (as amended by AB 361), which authorizes teleconferenced meetings under the Brown Act during a proclaimed state of emergency. The Governor of California proclaimed a State of Emergency related to COVID-19 on March 4, 2020. Consistent with Government Code Section 54953, this meeting will not be physically open to the public and all Board Members will be teleconferencing into the meeting via conference call. To maximize public safety while still maintaining public access, members of the public can observe the meeting by calling 510-477-6190 to listen to the committee meeting, and may provide public comment by sending comments to the Board Clerk by email anytime during the meeting at assistanttogm@unionsanitary.ca.gov or via voicemail by calling 510-477-7599 up to one hour before the scheduled meeting start time.

- 1. Call to Order
- 2. Roll Call
- 3. Public Comment

Public Comment is limited to three minutes per individual, with a maximum of 30 minutes per subject. If the comment relates to an agenda item, the speaker should address the Board at the time the item is considered. Speaker cards will be available and are requested to be completed prior to the start of the meeting.

- 4. Items to be reviewed for the Regular Board meeting of July 25, 2022:
 - Authorize the General Manager to Execute Amendment No. 1 to Task Order No. 2 with Carollo Engineers, Inc. for the Cherry Street Pump Station Improvements Project
- 5. Adjournment

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



LEGAL/COMMUNITY AFFAIRS COMMITTEE MEETING

Committee Members: Director Kite and Director Lathi

AGENDA Friday, July 22, 2022 10:30 A.M.

Alvarado Conference Room 5072 Benson Road Union City, CA 94587

Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy *Attorney*

This meeting will be held pursuant to Government Code Section 54953 (as amended by AB 361), which authorizes teleconferenced meetings under the Brown Act during a proclaimed state of emergency. The Governor of California proclaimed a State of Emergency related to COVID-19 on March 4, 2020. Consistent with Government Code Section 54953, this meeting will not be physically open to the public and all Board Members will be teleconferencing into the meeting via conference call. To maximize public safety while still maintaining public access, members of the public can observe the meeting by calling 510-477-6190 to listen to the committee meeting, and may provide public comment by sending comments to the Board Clerk by email anytime during the meeting at assistanttogm@unionsanitary.ca.gov or via voicemail by calling 510-477-7599 up to one hour before the scheduled meeting start time.

- 1. Call to Order
- 2. Roll Call

3. Public Comment

Public Comment is limited to three minutes per individual, with a maximum of 30 minutes per subject. If the comment relates to an agenda item, the speaker should address the Board at the time the item is considered. Speaker cards will be available and are requested to be completed prior to the start of the meeting.

- 4. Items to be reviewed for the Regular Board meeting of July 25, 2022:
 - June 2022 Monthly Operations Report Odor and Workgroup Reports
 - Receive Information and Provide Direction Regarding Upgrades Required to Host Hybrid Board Meetings in the Boardroom
 - Receive Information and Provide Direction Regarding Environmental Compliance Administrative Fines Under Certain Circumstances

5. Adjournment

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

MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS OF UNION SANITARY DISTRICT/UNION SANITARY DISTRICT FINANCING AUTHORITY July 11, 2022

This meeting was held pursuant to Government Code Section 54953 (as amended by AB 361), which authorizes teleconferenced meetings under the Brown Act during a proclaimed state of emergency. The Governor of California proclaimed a State of Emergency related to COVID-19 on March 4, 2020. Consistent with Government Code Section 54953, this meeting was not physically open to the public and all Board Members teleconferenced into the meeting. To maximize public safety while still maintaining transparency and public access, members of the public were able to observe the Board Meeting and provide public comment by sending comments to the Board Clerk.

CALL TO ORDER

President Lathi called the meeting to order at 4:00 p.m. The regular meeting time was modified due to the COVID-19 emergency.

SALUTE TO THE FLAG

ROLL CALL

PRESENT: Anjali Lathi, President

Manny Fernandez, Vice President

Jennifer Toy, Secretary Tom Handley, Director Pat Kite. Director

STAFF: Paul Eldredge, General Manager/District Engineer

Karen Murphy, District Counsel

Mark Carlson, Business Services Manager/CFO Rollie Arbolante, Customer Service Team Coach

Armando Lopez, Treatment and Disposal Services Manager

Jose Rodrigues, Collection Services Manager Raymond Chau, Technical Services Manager

Chris Pachmayer, Fabrication, Maintenance, and Construction Coach

Marcus Lee, Treatment and Disposal Services Coach

Trieu Nguyen, IT Administrator

Michelle Powell, Communications and Intergovernmental Relations Coordinator

May Bautista, Administrative Specialist Sharon Anderson, Administrative Specialist

Regina McEvoy, Executive Assistant to the General Manager/Board Clerk

<u>APPROVE MINUTES OF THE UNION SANITARY DISTRICT BOARD MEETING OF</u> JUNE 27, 2022

It was moved by Vice President Fernandez, seconded by Director Handley, to Approve the Minutes of the Board Meeting of June 27, 2022. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi

NOES: None ABSTAIN: Toy ABSENT: None

WRITTEN COMMUNICATIONS

There were no written communications.

PUBLIC COMMENT

There was no public comment.

CONSIDER ITEMS PERTAINING TO DISTRICT REBRANDING AND LOGO

Communications and Intergovernmental Relations Coordinator Powell and Executive Assistant to the General Manager/Board Clerk McEvoy presented the final refreshed logo and an implementation plan. Potential domain names were explored and it was found that modifying the District's current ".ca.gov" nomenclature to anything other than unionsanitary is not currently an option. Staff recommended the Board consider and approve a refreshed District logo, nickname, and descriptor 2) direct staff to move forward with the implementation plan for the logo 3) provide direction regarding the District's website and email addresses. The Board agreed to leave the District's website and email as is for now and revisit this topic in April of 2023.

It was moved by Director Handley, seconded by Director Kite, to approve the new brand logo, proceed with the implementation plan, and revisit the website and email addresses in April 2023. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy

NOES: None ABSTAIN: None ABSENT: None

CONSIDER CREATING AN INVESTMENT/PORTFOLIO AD HOC COMMITTEE AND APPOINTING TWO BOARD MEMBERS TO THE COMMITTEE

General Manager Eldredge stated a report outlining the performance of the District's investments is provided quarterly. These quarterly reports are typically one of several items discussed in the Budget and Finance Committee. An in-depth comprehensive overview of the quarterly report is not feasible due to the scheduling and time constraints of the Committee. Thus, a very high-level abridged overview is presented at the Committee and Board meetings. Given the current economic state, there are a number of factors that could influence the District's portfolio, thus a more in-depth review of the District's portfolio might be prudent. Staff recommended the Board consider creating an investment/portfolio ad hoc committee and appoint two Board Members to the committee.

It was moved by Director Handley, seconded by Vice President Fernandez, to create an investment/portfolio ad hoc committee and appoint two Board Members to the committee. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy

NOES: None ABSTAIN: None ABSENT: None

It was moved by Secretary Toy, seconded by Vice President Fernandez, to appoint Director Handley and President Lathi to the ad hoc committee. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy

NOES: None ABSTAIN: None ABSENT: None

CONSIDER A RESOLUTION TO ACCEPT A SANITARY SEWER EASEMENT AND QUITCLAIM A PORTION OF TWO SANITARY SEWER EASEMENTS FOR THE FREMONT CONVENTION CENTER, LOCATED AT 46399 FREMONT BOULEVARD, IN THE CITY OF FREMONT

This item was reviewed by the Legal/Community Affairs Committee. Customer Service Team Coach Arbolante stated the developer, Surya Real Estate, LLC, is planning to construct a conference/convention and banquet facility that includes a 56,044 square-foot building on a 3.1-acre lot at 46399 Fremont Boulevard, in the City of Fremont. A District 48-inch trunk main passes through the western portion of the subject parcel and resides within a 10-foot easement. Along the east side of the 10-foot easement is a 15-foot easement that was for a 15-inch sanitary sewer main that was abandoned in the 1990s. The planned convention center building will encroach upon the vacant 15-foot easement and the City requires that, with the District's approval, the easement be quitclaimed before permits for the project will be issued. District staff determined that sufficient District access to the 48-inch trunk main and clearance for the convention center building could be achieved by replacing both the 15-foot and 10-foot easements with a new 20-foot easement centered over the 48-inch trunk main within the parcel. Staff recommended the Board consider a resolution to accept a sanitary sewer easement and quitclaim a portion of two sanitary sewer easements for the Fremont Convention Center, located at 46399 Fremont Boulevard, in the City of Fremont.

It was moved by Director Kite, seconded by Secretary Toy, to Adopt Resolution No. 2974 to Accept a Sanitary Sewer Easement and Quitclaim a Portion of Two Sanitary Sewer Easements for the Fremont Convention Center, Located at 46399 Fremont Boulevard, in the City of Fremont, California. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy

NOES: None ABSTAIN: None ABSENT: None

CONSIDER A RESOLUTION TO QUITCLAIM A PORTION OF A SANITARY SEWER EASEMENT LOCATED ON THE NORTH SIDE OF MISSION BOULEVARD, WEST OF WARM SPRINGS BOULEVARD, IN THE CITY OF FREMONT

This item was reviewed by the Legal/Community Affairs Committee. Customer Service Team Coach Arbolante stated Caltrans has requested that the District quitclaim a vacant portion of a 10-foot sanitary sewer easement that is located on a City owned parcel within the right-of-way for State Route 262 – Mission Boulevard. Staff recommended the Board consider a resolution to quitclaim a portion of a sanitary sewer easement located on the north side of Mission Boulevard, west of Warm Springs Boulevard, in the City of Fremont.

It was moved by Vice President Fernandez, seconded by Director Handley, to Adopt Resolution No. 2975 to Quitclaim a Portion of a Sanitary Sewer Easement Located on the North Side of Mission Boulevard, West of Warm Springs Boulevard, in the City of Fremont, California. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy

NOES: None ABSTAIN: None ABSENT: None

CONSIDER A RESOLUTION TO ACCEPT THE CONSTRUCTION OF THE CATHODIC PROTECTION SYSTEM IMPROVEMENTS PROJECT FROM CORRPRO COMPANIES, INC.

This item was reviewed by the Engineering and Information Technology Committee. Technical Services Manager Chau stated the Notice to Proceed was issued to Corrpro on June 8, 2021. The 210-day project was initially scheduled to be completed on January 3, 2022. Corrpro completed the Project on January 21, 2022. Staff recommended the Board consider a resolution to accept the construction of the Cathodic Protection System Improvements Project from Corrpro Companies, Inc.

It was moved by Director Kite, seconded by Director Handley, to Adopt Resolution No. 2976 to Accept Construction of the Cathodic Protection System Improvements Project Located in the City of Union City and City of Newark, California from Corrpro Companies, Inc. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy

NOES: None ABSTAIN: None ABSENT: None

COVID-19 UPDATE AND CONSIDER ADOPTION OF A RESOLUTION AUTHORIZING THE USE OF TELECONFERENCE MEETINGS IN COMPLIANCE WITH AB 361

General Manager Eldredge provided an update regarding COVID-19 impacts on District operations and coordination efforts. The Board agreed that the District should begin a hybrid work from home pilot for a period of 6 months. The hybrid work schedule will be revisited at the regular Board meeting to be held on February 13, 2023.

District Counsel Murphy stated AB 361 requires public agencies to make findings by majority vote within 30 days of the first teleconferenced meeting under AB 361 and every 30 days thereafter that a state of emergency still exists and continues to directly impact the ability of the members to meet safely in person, or that officials continue to impose or recommend measures to promote social distancing. The District is continuing to hold teleconferenced meetings as allowed under AB 361 due to the ongoing public health threat of COVID-19. The proposed resolution includes findings required by AB 361 to allow the District to hold teleconferenced meetings. Staff provided an update on the status of the COVID-19 Emergency Order and will forward additional information to the Board as it becomes available. Staff recommended the Board adopt a resolution authorizing the use of teleconference meetings in compliance with AB 361.

It was moved by Director Kite, seconded by Director Handley, to Adopt Resolution No. 2977 Authorizing the Use of Teleconference Meetings in Compliance with AB 361. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy

NOES: None ABSTAIN: None ABSENT: None

INFORMATION ITEMS:

Report on the East Bay Dischargers Authority Meeting of May 19, 2022

Secretary Toy provided an overview of the EBDA meeting minutes included in the Board meeting packet.

Check Register

There were no questions regarding the check register.

COMMITTEE MEETING REPORTS:

The Legal/Community Affairs and Engineering and Information Technology Committees met.

GENERAL MANAGER'S REPORT:

- The certified election results and the Oath of Office for Director Handley and Secretary Toy were received.
- The Oath of Office will be held virtually at the August 8, 2022, regular Board meeting.

OTHER BUSINESS:

There was no other business.

ADJOURNMENT:

The meeting was adjourned at 4:51 p.m. to the next Regular Board Meeting to be held virtually on Monday, July 25, 2022, at 4:00 p.m.

SUBMITTED:	ATTEST:	
SHARON ANDERSON ADMINISTRATIVE SPECIALIST	JENNIFER TOY SECRETARY	
APPROVED:		
ANJALI LATHI PRESIDENT		

Adopted this 25th day of July 2022



Union Sanitary District Monthly Operations Report June 2022



Table of Contents

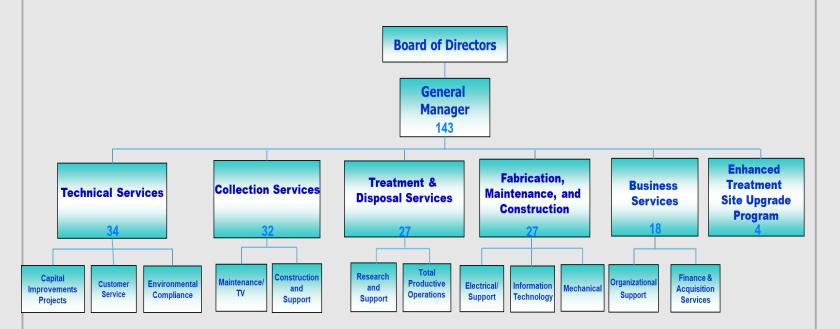
2022 MONTHLY OPERATIONS REPORT

The May 2022 Monthly Operations Reports highlights the District's performance in the following areas:

- Organizational Overview
- Financial Reports
 - Budget and Finance Report
 - Investment Portfolio
 - Portfolio Holdings by Asset Class and by Maturity Range
- Customer Relations
 - Odor Investigations and Response
 - Service Request and Response
 - · Communication and Outreach
- Plant Operations
- Maintenance Report
 - Collection System
 - Plant and Pump Stations
 - Information Technology
- Capital Improvement Projects (CIP) Report
 - Current Construction Projects
 - · Studies and Designs
- Permitting and Inspections
- Staffing and Personnel



Union Sanitary District operates a 33-acre wastewater treatment facility in Union City and provides collection, treatment, and disposal services to a total population of over 356,000 in Fremont, Newark and Union City, California. The District maintains over 839 miles of underground pipeline in its service area.



Executive Team						
Paul Eldredge	General Manager/District Engineer	Oversees District operations and liaison to the Board of Directors				
Mark Carlson	Business Services/CFO	Includes Finance, Purchasing, Human Resources, and Safety				
Jose Rodrigues	Collection Services	Maintains, and repairs the sewer lines and manholes throughout the service area				
Raymond Chau	Technical Services	Permits and inspections, pretreatment program, and capital improvements				
Armando Lopez	Treatment and Disposal Services	Operates the treatment plant, process and analyze wastewater samples				
Robert Simonich	Fabrication, Maintenance, and Construction	Information technology, equipment installation, service, repair for the plant and pump stations				

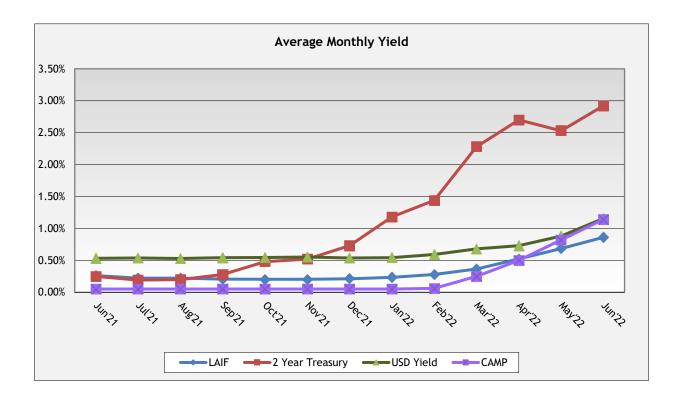


Total Revenues and Expenditures

FY 2022		Year-to-date as	of 6/3	0/22	100% of year elapsed	
Revenues				Preliminary	% of	Audited Last Year
		Budget		Actual	Budget Rec'd	tuals 6/30/21
Capacity Fees	\$	4,949,820	\$	11,145,152	225%	\$ 9,358,209
Sewer Service Charges		74,716,000		70,114,046	94%	62,142,806
Operating (Includes work groups and fund 85)		1,260,900		1,176,817	93%	1,315,019
Interest		1,085,000		1,110,617	102%	1,438,294
Misc. (Annex fees, forfeited deposits, Heliovaas)		50,000		1,597,278	3195%	17,720
Subtotal Revenues	\$	82,061,720	\$	85,143,911	104%	\$ 74,272,049
Bond Proceeds		110,000,000		110,626,705	100.6%	-
Total Revenues + Bond Proceeds	\$	192,061,720	\$	195,770,615	102%	\$ 74,272,049
<u>Expenses</u>					% of	Last Year
<u> </u>		Budget		Actual	Budget Used	Actuals
Capital Improvement Program:		· ·			· ·	
Capacity Proj.	\$	14,949,000	\$	10,044,400	67%	\$ 21,520,168
Renewal & Repl. Proj.		28,240,200		12,017,217	43%	11,598,759
Operating (includes fund 85)		46,905,403		43,110,942	92%	45,515,755
Special Projects		3,960,104		710,841	18%	714,462
Retiree Medical (ADC)		1,421,401		1,430,142	101%	133,279
115 Pension Trust		3,000,000		3,000,000	100%	-
Vehicle & Equipment		125,000		<u>-</u>	0%	144,181
Information Systems		940,000		311,868	33%	502,358
Plant & Pump Stat. R&R		400,000		224,697	56%	162,400
Emerg. Fund		-		-	0%	444.440
Cty Fee for SSC Admin.		115,000		111,726	97%	111,142
Debt Servicing:				7 740	00/	
SRF Loans		-		7,712	0%	4 007 045
Bonds		12,019,092		7,120,147	59%	4,287,915
WIFIA		-		362,228	0%	100,000
Total Expenses	\$	112,075,200	\$	78,451,919	70%	\$ 84,790,419
Total Revenue & Proceeds less Expenses	\$	79,986,520	\$	117,318,696		(10,518,370)

Investment Portfolio

Performance Measures for the USD Investment Portfolio



	Feb'22	Mar'22	Apr'22	May'22	Jun'22
LAIF	0.28%	0.37%	0.52%	0.68%	0.86%
2 Year Treasury	1.44%	2.28%	2.70%	2.53%	2.92%
USD Yield	0.59%	0.68%	0.73%	0.88%	1.16%
CAMP	0.06%	0.25%	0.50%	0.82%	1.14%

LAIF: Local Agency Investment Fund Yield

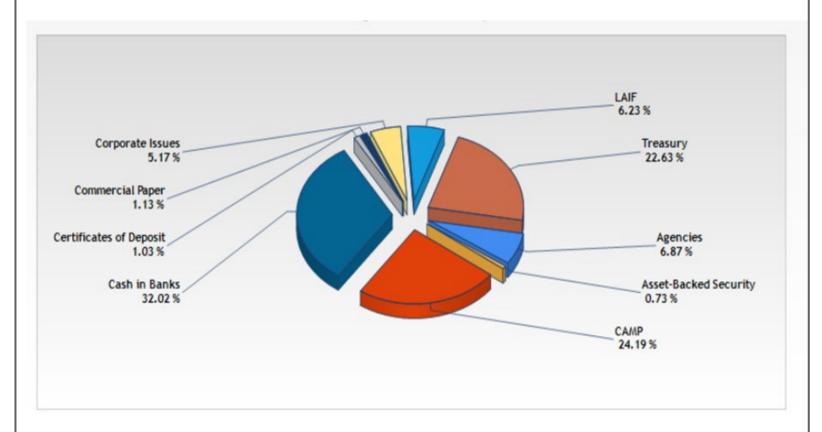
2 Year Treasury: Yield for investing in 2-Year U.S. Treasury security

USD Yield: Summarizes USD portfolio's yield

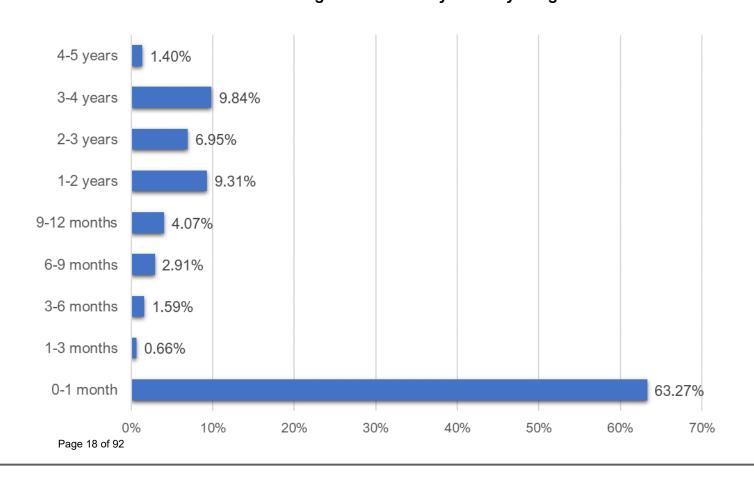
CAMP: California Asset Management Program Yield

Portfolio Holdings by Asset Class and by Maturity Range

Portfolio Holdings Distribution by Asset Class



Portfolio Holdings Distribution by Maturity Range



Union Sanitary District Odor Map and Report

During the recording period between June 1, 2022, through June 30, 2022, there were 3 odor related service request(s) received by the District.

City	Union City		
District Related:	No	Date/Time:	6/2/2022 9:07PM
Location:	MACKINAW ST	Reported by:	Sam Dua
Weather/Temp:	Clear / 58°F	Wind:	West / 14.1 mph

Response and Follow-up: Caller reported a foul odor they believed was coming from the treatment plant. USD staff was dispatched to the location and no odor was found. An on-site investigation was conducted and no odor was detected at the plant. The odor control system was working properly. At the time of the initial odor report, the tide level was low. No odor was found.

City	Union City		
District Related:	No	Date/Time:	6/17/2022 10:06PM
Location:	MACKINAW ST	Reported by:	Sam Dua
Weather/Temp:	Clear / 59°F	Wind:	Southwest / 8.4 mph

Response and Follow-up: Caller reported a bad odor they believed to be coming from the treatment plant. USD staff was dispatched to the location and it was noted that garbage cans were out on the streets. An on-site investigation was conducted and no odor was detected at the treatment plant. The odor control system was working properly. At the time of the initial odor report, the tide level was low. No odor was found.

City	Union City		
District Related:	No	Date/Time:	6/18/2022 7:50PM
Location:	MACKINAW ST	Reported by:	Sam Dua
Weather/Temp:	Sunny / 58°F	Wind:	Southwest / 21.6 mph

Response and Follow-up: Caller reported a bad odor they believed to be coming from the treatment plant. USD staff was dispatched to the location and no odor was found. An on-site investigation was conducted and no odor was detected at the treatment plant. The odor control system was working properly. At the time of the initial odor report, the tide level was low. No odor was found.

Union Sanitary District Odor Map and Report Union City Union Sanitary District-Alvarado 1. No Odor found **Treatment Plant** 2. No Odor found 3. No Odor found Newark Fremont Legend Odor Complaints: June 2022 Odor found, USD resolved (0) Odor found, not related to USD (0) No odor found (3) Odor Complaints: Jul. 2021 to May 2022 Odor found, USD resolved (2) **Location of Odor Reports** Odor found, not related to USD (4) July 2021 to June 2022 No odor found (12)

Miles

Customer Service Response

Front Desk Trouble Calls

Service calls that require immediate attention to support customer needs. Dispatched from the Front Desk during business hours.

Total Calls	Fremont	Newark	Union City	Total
Jun-22	9	3	1	13
May-22	10	1	1	12
Apr-22	11	0	0	11
Mar-22	10	1	1	12
Feb-22	9	7	3	19
Jan-22	8	5	3	16
			6 Month Total	83
Jun-21	13	2	2	17

Communication and Outreach

Includes participation in local events, social media communication, plant tours, and school outreach events.



Social Media Posts:

- · Recruitment: Mechanic I/II
- Recruitment: Senior Accounting & Financial Analyst
- Keep toxic pesticides off pets (chewables info)
- Recruitment: CIP Admin Specialist
- · Juneteenth Holiday Office closure
- Recruitment: Plant Op III trainees
- ETSU program update
- Wipes clog pipes Page 21 of 92

Events:

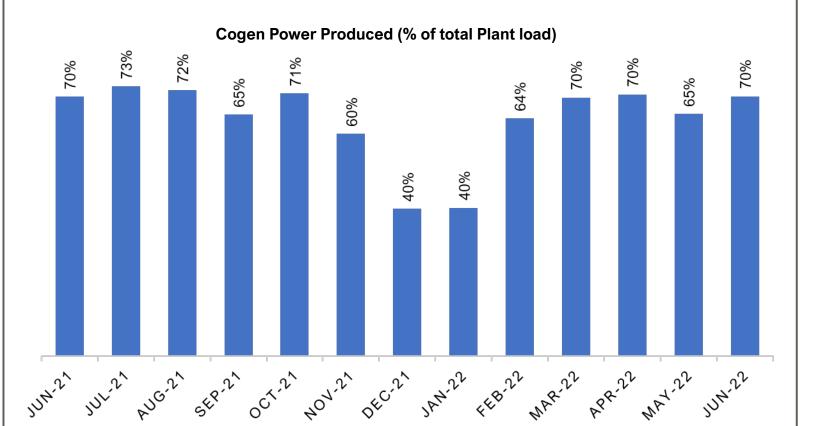
· U.C. Chamber of Commerce fundraiser

Other Activities:

- Provided grease scrapers and door hangers to high FOG residential areas
- Virtually attended Newark State of the City Address

Cogeneration Engines at USD's Wastewater Treatment Plant

The chart below shows the percentage of Plant power usage generated by the District's cogeneration (cogen) engines monthly. The engines use biogas produced by the wastewater treatment process to generate power for the District's treatment plant and lower energy costs.





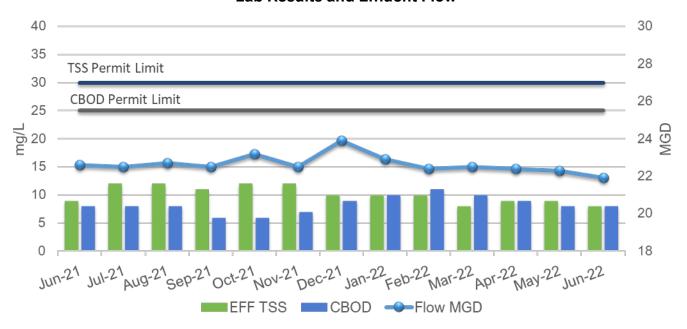
Side view of one cogeneration engine



Lab Monitoring Results

USD's laboratory staff process over 6,200 samples and perform about 17,000 analyses every year to ensure discharges from the plant meet necessary standards.

Lab Results and Effluent Flow



EFF SS: Effluent Suspended Solids

CBOD: Carbonaceous Biochemical Oxygen Demand MGD: Million Gallons per Day

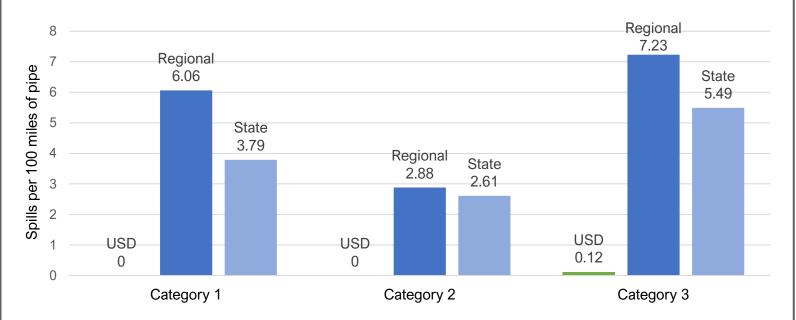
USD's Final Effluent Monthly Monitoring Results								
Parameter	Permit Limit	Apr-22	May-22	June-22				
Copper, µg/l	78	3.7	4.9	6.4				
Mercury, μg/l	0.066	N/A	0.0026	N/A				
Cyanide, µg/l	42	E 1.3	ND 0.9	E 2.5				
Ammonia- N, mg/L (Range)	130	37.3 - 45	41.6 - 45.1	41 - 44.5				
Fecal Coliform, MPN/100ml (Range)								
5-Day Geometric Mean	500	13 - 21	23 - 34	17 - 21				
11-Sample 90th Percentile	1100	7 - 138	138 - 138	71 - 138				
Enterococci								
Monthly Geometric Mean	240	10	22.4	12.2				

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

Collection System Maintenance Work Completed

The Collection Services Workgroup maintains over 839 miles of gravity sewer through cleaning and televised inspection. They also service 63 District vehicles and maintain 3 buildings. Maintenance of equipment is completed by staff through sewer line repairs and work orders.

Average Spills per 100 Miles of Sewer Over the Last 12 Months USD vs. Regional vs. State



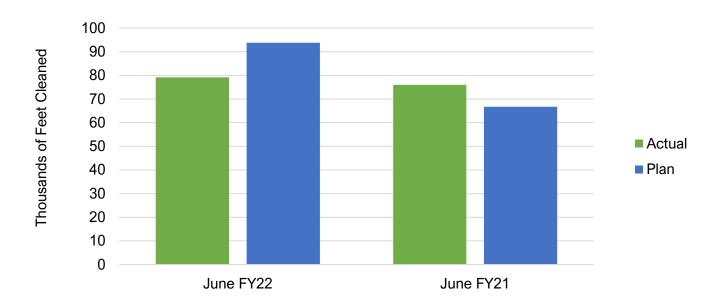
Definition of Spill Categories

- Category 1: 1,000 gallons or more. Discharges to surface water, not fully captured.
- Category 2: 1,000 gallons or more. Does not reach surface water, not fully captured.
- Category 3: 1,000 gallons or less. Does not reach surface water, fully captured.

	This Month	Fiscal Year to Date	Historical Monthly Average
Sewer Line Repairs-# of Open Trench	0	9	2
Sewer Line Repairs-# of Trenchless	5	209	14
Work Orders Completed on Vehicles and Buildings	171	2283	171



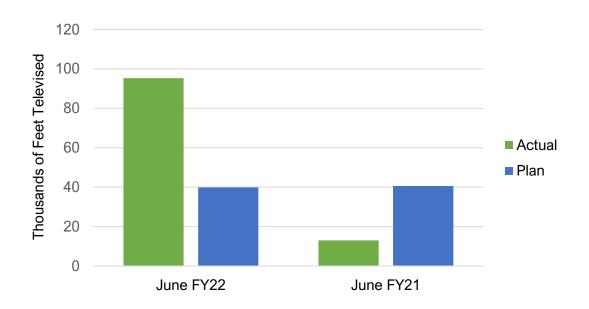
Sewer Line Cleaning



	Cleaning Cost per Foot=\$1.36								er Foot=\$1.36
	FY22	FY22	FY22		FY22		Historical		%
	Qtr 1	Qtr 2	Qtr 3	June-22	Qtr 4	FY22	FY21		Completed
Description	Footage	Footage	Footage	Footage	Footage	Footage	Footage	FY22 Goal	to Plan
84 Month Hydro-									
Jet Clean	145,468	114,122	191,274	48,217	203,897	654,851	537,616	634,499	103.2%
Selective Line									
Cleaning	49,758	60,399	45,349	40,608	196,114	196,114	200,764	193,168	101.5%
Special									
Condition Clean									
(not in total)	3,108	5,616	14,551	2,041	8,754	32,029	23,622	24,124	132.8%
Root									
Control/Chemical									
Clean	58,217	129,393	75,831	10,597	57,220	320,661	338,555	297,691	107.7%
Totals	253,443	303,914	312,454	79,191	301,816	1,171,626	1,081,602	1,125,358	104.1%



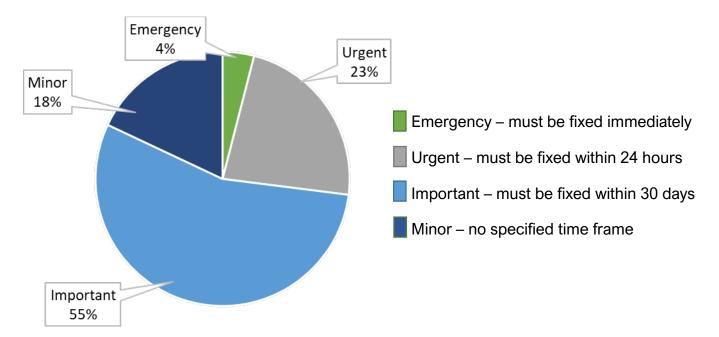
Sewer Line Inspection and Televising



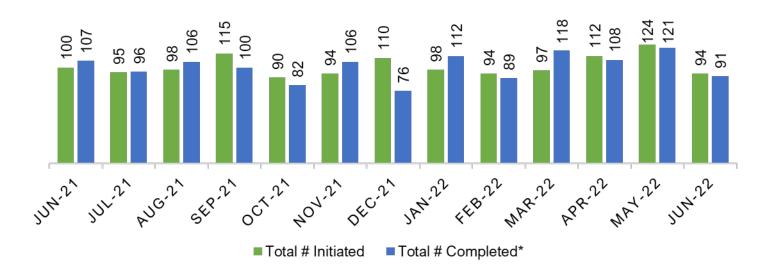
Televising Cost per Footage=\$1.15									
							Historical		
	FY22	FY22	FY22		FY22	FY22	FY21		%
	Qtr 1	Qtr 2	Qtr 3	Jun-22	Qtr 4	Footage/	Footage/	FY22	Completed
Description	Footage	Footage	Footage	Footage	Footage	Count	Count	Goal	to Plan
84 Month TV Inspection	119,296	96,938	123,587	95,284	137,864	477,685	481,639	423,311	112.8%
84 Month Manhole									
Inspection Count	442	608	1,060	100	374	2,484	1,163	2,351	105.7%
Visual/Condition,									
Pre/Post Cnst TV (not in									
total)	182	3,515	-	-	1,117	4,814	1,793	17,347	27.8%
Visual Manhole									
Inspection Count (not in									
total)	138	163	57	22	80	438	329	-	-
New Development, CIP,									
Misc (not in total)	5,241	3,863	7,394	887	9,563	26,061	33,140	39,736	65.6%
QA/QC Line Condition	-	18,196	898	-	-	19,094	19,201	19,317	98.8%
QA/QC Root Control	27,309	8,268	-	-	-	35,577	22,270	35,482	100.3%
Totals	146,605	123,402	124,485	95,284	137,864	532,356	523,110	478,110	111.3%

Plant and Pump Stations Maintenance Work Completed

Equipment at our Plant and Pump/Lift stations is maintained by mechanics and other staff through completion of work orders. Staff completed 99.33% of preventative maintenance activities for the month in addition to the following shown below.



Work Orders Initiated and Completed



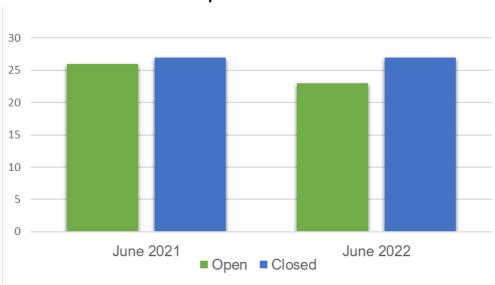
^{*}The number of work orders completed in a month is dependent upon several factors including the availability of necessary parts and the amount of time required by staff to accomplish a given task.



Information Technology

USD's Information Technology (IT) staff install, upgrade, and maintain District computers and software systems. IT staff responsibilities include ongoing maintenance of systems critical to operation of our wastewater treatment plant and pump stations.

IT Help Desk Tickets



Managed and Hosted IT Asset Uptime

Asset Name	USD Managed or Hosted by Third Party	% Up time
USD Website	Hosted	99.95%
Email Server	Hosted	99.86%
Newark Pump Station	USD Managed	99.92%
Boyce Pump Station	USD Managed	99.92%
Irvington Pump Station	USD Managed	99.92%
SCADA	USD Managed	100%
Total Average of All USD Servers	USD Managed	99.75%

The majority of our IT network assets are maintained onsite by IT staff with an uptime target of 99.90%. Additional assets, such as the USD website, are hosted externally by a third party.



Capital Improvement Project (CIP) Activities

Our engineers manage and coordinate project activities including completion of studies, designing of future projects, and project management of construction work at our Plant, Pump Stations, gravity sewer network, and Force Mains.

Current CIP Projects – Budget and % complete

Current (FY22) CIP Projects	Budget (\$1,000)	Spent to Date (\$1,000)	Scheduled Completion	Completed Scope
1 – Aeration Blower No. 11 Project	\$1,652	\$1,601	12/21	97%
2 – Alvarado Influent Pump Station Improvements Project	\$8,986	\$7,470	11/21	87%
3 – Cathodic Protection System Improvements Project	\$483	\$428	1/22	95%
4 – Centrifuge Building Improvements Project	\$688	\$584	10/21	99%
5 – Emergency Outfall Improvements Project	\$1,399	\$1,324	1/22	100%
6 – Force Main Corrosion Repairs Project – Phase 3	\$1,064	\$0	10/22	0%
7 – FY21 Cast Iron/Pipe Lining Project	\$307	\$220	5/21	100%
8 – FY21 Gravity Sewer Rehabilitation/ Replacement Project – Phase VII	\$595	\$595	10/21	100%
9- Irvington Basin Reinforced Concrete Pipe Rehabilitation Project	\$5,291	\$0	12/22	0%
10 – Primary Digester No. 7 Project	\$23,783	\$22,901	5/22	99%
11 – Standby Power Generation System Upgrade Project	\$21,135	\$176	4/24	2%



Digester #7 Project

Design Phase – Budget and % of Completed Scope

Current (FY22) Design Phase	Budget (\$1,000)	Spent to Date (\$1,000)	Scheduled Completion	Completed Scope
1 – Cherry Street Pump Station Improvements Project	\$72	\$71	6/21	100%
2 – Plant Miscellaneous Improvements Project	\$185	\$175	3/22	85%
3 – Pump Stations Chemical System Improvements Project	\$738	\$634	10/21	95%
4 – Sodium Hypochlorite Loop Improvements Project	\$280	\$170	5/22	85%
5 – Switchboard No. 3 and MCC No. 25 Replacement Project	\$95	\$42	7/22	42%
6 – WAS Thickener Replacement Project	\$807	\$801	6/21	100%

Study Phase – Budget and % of Completed Scope

Current (FY22) Study Phase	Budget (\$1,000)	Spent to Date (\$1,000)	Scheduled Completion	Completed Scope
1 – Cogeneration Replacement and Ventilation Study	\$142	\$95	7/22	75%
2 – Energy Resiliency Study	\$256	\$0	12/22	25%
3 – Force Main Condition Assessment	\$121	\$32	10/22	60%
4 – Headworks Degritting Study	\$200	\$89	10/22	45%
5 – Odor Control Alternatives Study	\$493	\$465	12/20	99%
6 – Primary Digester No. 8 Feasibility Study	\$111	\$30	9/22	25%
7 – Pump Stations Condition Assessment Study	\$250	\$128	8/22	51%
8 – Sea Level Rise Study	\$162	\$63	11/22	40%
9 – Thermal Dryer Feasibility Study	\$128	\$89	7/22	70%
10 – 2022 Local Limits Study	\$44	\$0	12/22	10%

Sewer Permits Issued

Permits issued upon approved completed plans.

Month	Repairs	Mains	New Laterals*	ADUs	Restaurants	Other**	Total
Jun-22	16	0	22	5	0	6	49
May-22	21	0	12	5	0	3	41
Apr-22	14	0	91	6	0	2	113

^{*}New Laterals- New residential lateral connections

Storm Water Inspections (City of Fremont)

Under contract with City of Fremont's Environmental Services Group, our inspectors conduct routine inspections and document enforcement actions.

Total Ins	pections	Total Monthly Enforcements						
Current Month	Fiscal Year to Date	Verbal Warning	Warning Letter	Notice of Violation	Admin Fine	Legal Action	Notice of Deficiency	Total
112	987	3	0	7	7	1	0	18

Pollution Prevention Inspections

Environmental Compliance conducts pollution prevention inspections at restaurants, car wash businesses, and other commercial facilities.

Total Ins	pections	Total Monthly Enforcements3						
Current Month	Fiscal Year to Date	Verbal Warning	Warning Letter	Notice of Violation	Admin Fine	Legal Action	Notice of Deficiency	Total
39	519	3	5	0	0	0	0	8

Permitted Industrial Businesses

City	Industrial Permits
Fremont	62
Newark	18
Union City Page 31 of 92	12

Examples of Permitted Industrial Businesses:

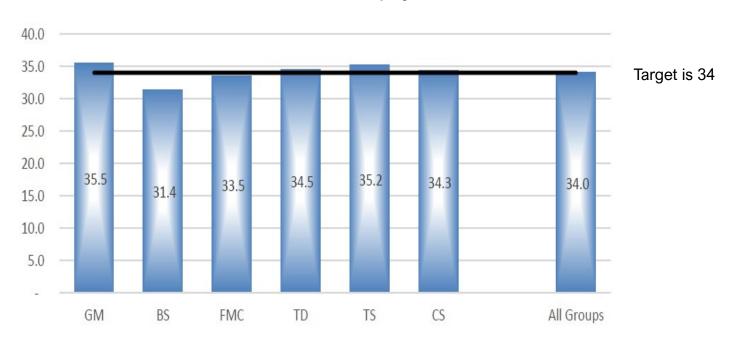
- Tesla
- Washington Hospital
- US Pipe
- · Western Digital
- Lam Research

^{**}Other- Non-residential construction (except restaurants)

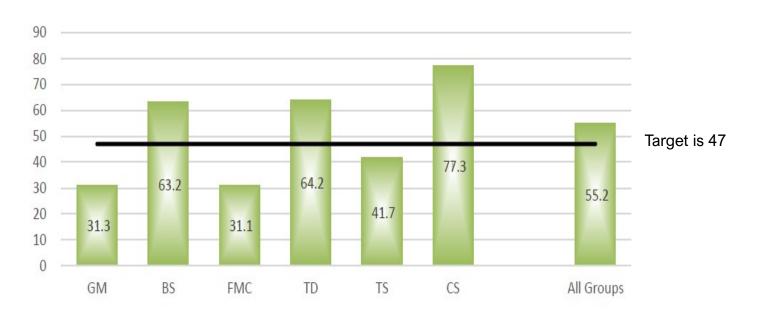
Hours Worked and Leave Time by Work Group

June 24, 2021 through June 22, 2022 Weeks to Date 52 out of 52 (100%)

At-Work Hours Per Employee Per Week



Average Annual Sick Leave Used Per Employee Per Date



Page 32 of 92

Recruitments

Position	Position Posted	Status
Assistant Storekeeper	2/23/2022	Kelly Pean, DOH 7/5/2022.
Coach, Capital Improvement Projects	4/2/2022	Curtis Bosick, Promotion 7/3/2022.
Human Resources Manager	4/20/2022	Alisa Gordon, DOH 8/1/2022
Mechanic I/II	6/1/2022	Recruitment in process.
Senior Financial & Accounting Analyst	6/2/2022	Virginia Holslag, Promotion 7/3/2022
Administrative Specialist I - CIP	6/16/2022	Recruitment in process.
Plant Operator III Trainee – Limited Duration (2)	6/23/2022	Recruitment in process



Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy
Attorney

JULY 25, 2022 BOARD OF DIRECTORS MEETING AGENDA ITEM # 8

TITLE: Authorize the General Manager to Execute Amendment No. 1 to Task Order

No. 2 with Carollo Engineers, Inc. for the Cherry Street Pump Station

Improvements Project (This is a Motion Item)

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

Raymond Chau, Technical Services Work Group Manager

Curtis Bosick, CIP Team Coach Derek Chiu, Assistant Engineer

Recommendation

Staff recommends the Board authorize the General Manager to execute Amendment No. 1 to Task Order No. 2 with Carollo Engineers, Inc. (Carollo) in the amount of \$29,561 to provide additional design services for the Cherry Street Pump Station Improvements Project (Project).

Discussion

Staff anticipates that future land development in the area served by the Cherry Street Pump Station will necessitate a significant upgrade or replacement of the facility, which could be part of future development projects. However, these development projects will likely take time before they are ready to be implemented and the current condition of the pump station requires rehabilitation prior to system demands increasing.

Staff conducted a consultant procurement process in March 2020 and selected Carollo to perform the professional engineering services for the Project. These services included a condition assessment of the structural, mechanical, and electrical elements of Cherry Street Pump Station and providing the final design services for recommended improvements. Figure 1 includes a site plan of the existing Cherry Street Pump Station and Figures 3 through 6 include photos illustrating the condition of the facility.

Board Item No. 8 Meeting of July 25, 2022 Page 2

The Project's major elements include:

- Upgrading the utility power service capacity for the pump station
- Replacement of the existing electrical system panel
- Upsizing and modifications to discharge piping for the wastewater pumps
- Minor structural concrete repairs to the wet well
- Procurement and installation of a portable standby generator

The purpose of Amendment No. 1 to Task Order No. 2 is to authorize additional design services for the Project. The scope of services and fees of Amendment No. 1 with Carollo are summarized below:

	Task Description	Amount
Additi	onal Design Services:	
•	Project Management	
•	Storage System Capacity Evaluation	\$29,561
•	Portable Generator	\$29,501
•	Update Bid Documents	
	Amendment No. 1 Not to Exceed Fee	\$29,561

During the design of the Project, staff and Carollo evaluated a scenario of an extended power outage at the Cherry Street Pump Station and the wastewater pumps could not operate. Carollo conducted an evaluation of the storage capacity of the collection system upstream of the pump station and determined that staff had between 3 and 6 hours, depending on the expected system flow, to respond before there would be a potential sanitary sewer overflow. Figure 2 includes a map of the collection system pipes upstream of the Cherry Street Pump Station.

Due to the limited storage capacity, staff and Carollo determined the best solution was to purchase and store a portable generator on site that is connected to the pump station's electrical system via a manual transfer switch. Whenever there is an extended utility power outage, staff can manually turn on the portable generator, which will supply power to the pump station and keep the pumps operating until utility power is restored.

Staff believes the amendment fee is reasonable for the effort needed to complete the additional design scope. The task order amounts for the Project's agreement with Carollo are summarized below:

Task Order / Amendment	Amount
Task Order No. 1 – Condition Assessment	\$17,698

Task Order / Amendment	Amount
Task Order No. 2 – Design and Bid Period Services	\$71,883
Amendment No. 1 to Task Order No. 2 – Additional Design Services	\$29,561
Total Not to Exceed Amount	\$119,142

Staff anticipates the Project will be advertised for bids in August 2022 and construction completed in summer 2023.

Background

The District's service area consists of three gravity drainage basins. The Cherry Street Pump Station, located at 39888 Eureka Drive in the city of Newark, is located within the Irvington Basin. It collects wastewater flows from a small tributary system of gravity sewer mains and pumps directly into the 33-diameter twin force main pipelines. The station was constructed in the 1980s and needs improvements to maintain its reliability.

<u>Task Order No. 1 – Condition Assessment</u>

On March 30, 2020, staff executed an agreement and Task Order No. 1 with Carollo in the amount of \$17,698 to conduct a condition assessment of the structural, mechanical, and electrical elements of the Cherry Street Pump Station.

<u>Task Order No. 2 – Design and Bid Period Services</u>

On October 20, 2020, staff executed Task Order No. 2 with Carollo in the amount of \$71,883 to provide final design services for the Project. The scope of services performed by this task order included:

- Evaluation and design of the necessary electrical service upgrades and piping system modifications required to operate both wastewater pumps simultaneously.
- Design of the structural, mechanical, and electrical improvements identified from the condition assessment.

Previous Board Action

None.

PRE/RC/CB/DC

Attachments: Figure 1 – Site Plan

Figure 2 – Collection System Piping Map

Figures 3-6 – Photos

Amendment No. 1 to Task Order No. 2



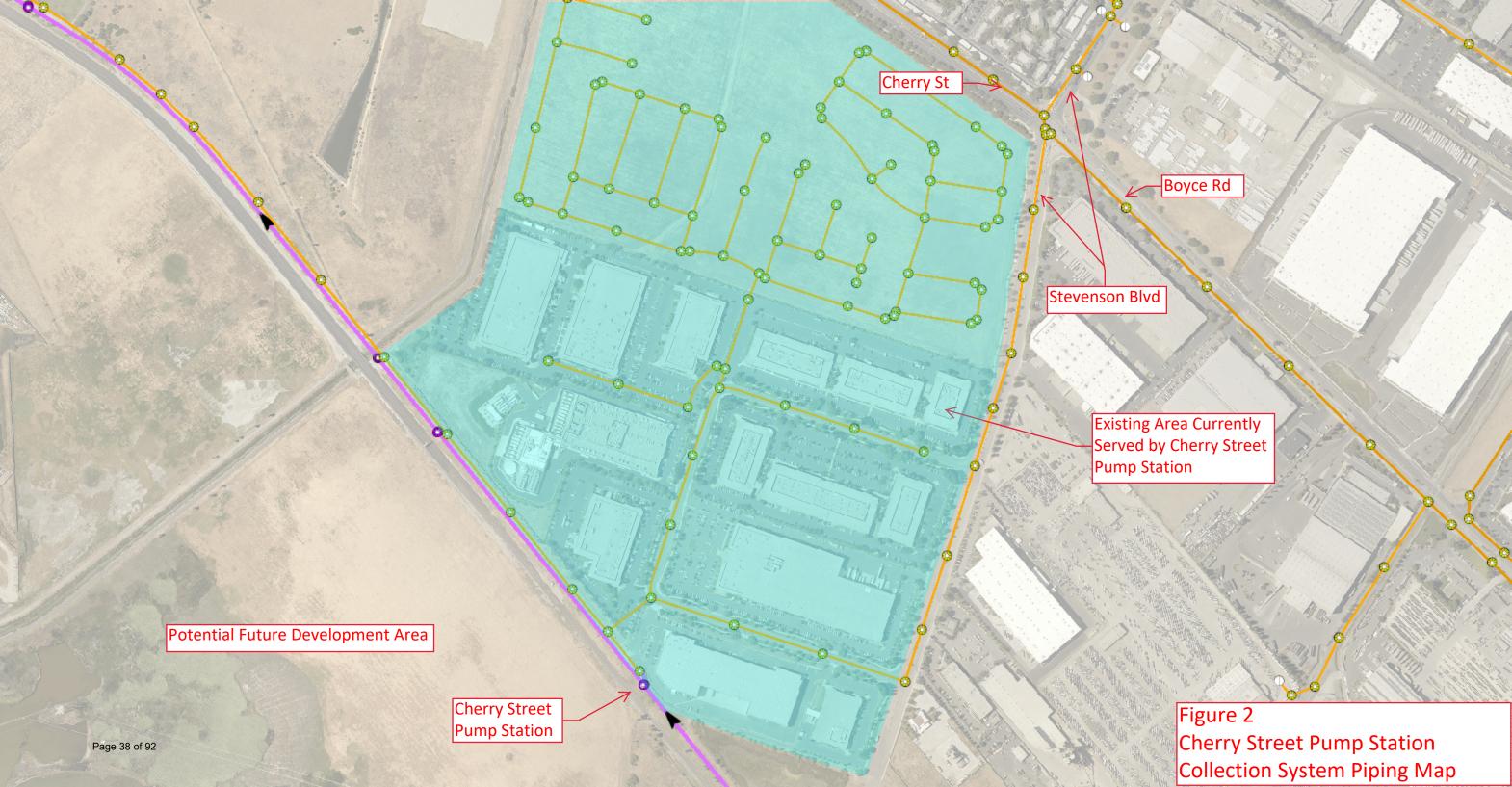




Figure 3 – Cherry Street Pump Station

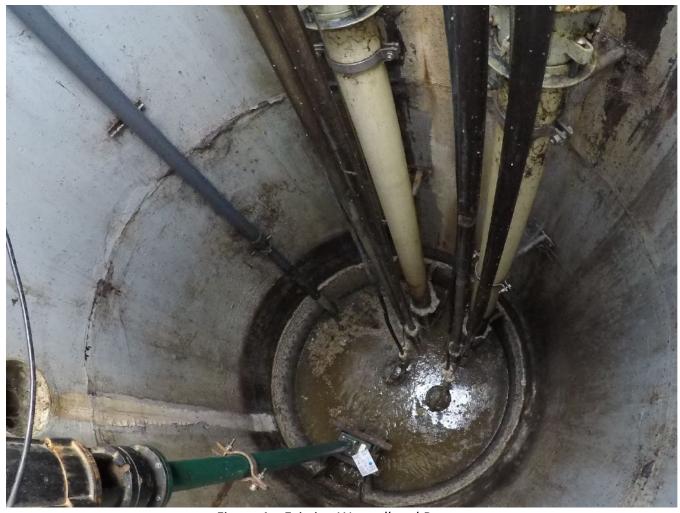


Figure 4 – Existing Wetwell and Pumps



Figure 5 – Existing Valve Vault And Pump Discharge Valves



Figure 6 – Existing Electrical Equipment

CHERRY STREET PUMP STATION IMPROVEMENTS PROJECT

AMENDMENT NO. 1

to

TASK ORDER NO. 2

to

AGREEMENT

BETWEEN

UNION SANITARY DISTRICT

AND

CAROLLO ENGINEERS, INC.

FOR

PROFESSIONAL SERVICES

This Amendment No. 1 to Task Order No. 2 (Amendment) is issued by the Union Sanitary District (District) and accepted by Carollo Engineers, Inc. (Engineer), pursuant to the mutual promises, covenants, and conditions contained in the Agreement between the above-named parties dated March 30, 2021, associated with the Cherry Street Pump Station Improvements Project (Project).

1. PURPOSE

The purpose of this Amendment is to modify the original scope of services and increase the Not-to-Exceed fee for Professional Services necessary to complete additional work requested by the District that was not included in Task Order No. 1. All other terms of the original Agreement and Task Order remain unchanged.

2. PROJECT COORDINATION

All work related to this Amendment shall be coordinated through the District's Project Manager, Derek Chiu.

Cherry Street Pump Station Improvements Project Amendment No. 1 to Task Order No. 2 Page 2

3. ENGINEER'S SCOPE OF SERVICES

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

The Scope of Services for Task Order No. 2 is amended as follows:

TASK 1.0 – PROJECT MANAGEMENT

Task 1.1 Project Management - Engineer shall monitor and track scope, budget, and schedule for work covered under this Amendment and include progress updates to the District as part of the monthly reports provided for the Project. Amendment No. 1 adds 9 additional hours for this task for the 9 additional months of the design phase.

TASK 3.0 - FINAL DESIGN

The following tasks covers the additional scope added by the District:

Task 3.4 Storage System Capacity Evaluation – Engineer shall evaluate the storage capacity of the collection system upstream of the Cherry Street Pump Station in the event of an outage at the pump station. Engineer shall review the elevations of the manholes in the collections system upstream of the pump station and the bypass manhole to determine which manholes would potentially overflow first in an outage.

Task 3.5 Portable Generator – Engineer shall design for the addition of a new portable generator to the pump station and the grading and fencing work associated with the new concrete slab for the generator.

Task 3.6 Update Bid Documents – Engineer shall prepare and submit updated 100-percent (Bid-ready) design drawings, specifications, and cost estimate for District review.

4. **DELIVERABLES**

Updated 100-percent drawings and technical specifications. Electronic specifications will be
in Word and PDF format and electronic drawings will be in the most recent AutoCAD and PDF
formats (both full-size and half-size).

5. PAYMENT TO THE ENGINEER

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

Cherry Street Pump Station Improvements Project Amendment No. 1 to Task Order No. 2 Page 3

Total charges to the DISTRICT not-to-exceed amount for Amendment No. 1 to Task Order No. 2 shall be \$29,561, bringing the not-to-exceed amount of Task Order No. 2 to \$101,444. A summary of the anticipated distribution of cost and manpower between tasks is shown in Exhibit A.

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

Task Order / Amendment	Not to Exceed Amount	Board Authorization Required?	District Staff Approval
Task Order No. 1 – Condition Assessment	\$17,698	No	Sami Ghossain
Task Order No. 2 – Design and Bid Period Services	\$71,883	No	Paul R. Eldredge
Amendment No. 1 to Task Order No. 2 – Added Design Scope	\$29,561	Yes	Paul R. Eldredge
Total	\$119,142		

All other terms and conditions of the Agreement and Task Order No. 2 remain unchanged.

UNIC	ON SANITARY DISTRICT	CARO	LLO ENGINEERS, INC.
Ву: _	Paul R. Eldredge, P.E General Manager/District Engineer	Ву:	Scott E. Parker P.E. Senior Vice President
_	Date	-	Date
		Ву:	Mike Dadik, S.E. Vice President
			Date

Exhibit "A" - Additional Design Services Budget Union Sanitary District Cherry Street Pump Station Improvements Project July 14, 2022

				CARO	LLO LABOR	HOURS				SUBCONSULTANTS		DIRECT EXPENSE		
	TASK / DESCRIPTION	PM	PE	Mechanical	CAD Technician	DP	Carollo			Beecher	Subconsultant	PECE	Total Direct	TOTAL
		M. Dadik	B. Burnitt	A. Lamb			Hours	Carol	llo Labor	Engineering Inc.	with 5% mark-up		Expense	
		\$284	\$174	\$116	\$144	\$113						\$13.00		
Task 1. I	Project Management and Design Phase Meetings	3	2	4	0	0	9	\$	1,664	\$ -	\$ -	\$ 117	\$ 117	\$ 1,781
1.1	Project Management	3	2	4			9	\$	1,664	\$ -	\$ -	\$ 117	\$ 117	\$ 1,781
Task 3. I		4	53	77	28	12	174	\$	24,678	\$ 800	\$ 840	\$ 2,262	\$ 2,262	\$ 27,780
3.4	Storage System Capacity Evaluation	1	36	66	16		119	\$	16,508		\$ -	\$ 1,547	\$ 1,547	\$ 18,055
3.5	Portable Generator		12	6			18	\$	2,784		\$ -	\$ 234	\$ 234	\$ 3,018
3.6	Update Bid Documents	3	5	5	12	12	37	\$	5,386	\$ 800	\$ 840	\$ 481	\$ 481	\$ 6,707
TOTAL		7	55	81	28	12	183	\$	26,342	\$ 800	\$ 840	\$ 2,379	\$ 2,379	\$ 29,561



Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy
Attorney

JULY 25, 2022 BOARD OF DIRECTORS MEETING AGENDA ITEM #9

TITLE: Receive Information and Provide Direction Regarding the Upgrades Required

to Host Hybrid Board Meetings in the Boardroom (This is a Direction Item)

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

Chris Pachmayer, Acting FMC Work Group Manager Trieu Nguyen, Information Technology Administrator

Recommendation

Receive information and provide direction regarding the upgrades required to host hybrid board meetings in the Boardroom.

Discussion

Staff conducted research into the feasibility of moving Board Meetings from the Alvarado Conference Room to the Boardroom in early June 2022 and determined that the Boardroom required equipment upgrades to effectively host hybrid meetings. Staff performed site assessments in late June and early July 2022 with contractors from AVI-SPL, Integrated Communication Systems, and Prime Electric and confirmed the following work needs to be performed in the Boardroom.

1. Replace the existing microphone system.

The existing microphone system is too old and incompatible with the systems required to host hybrid Board Meetings. The new microphone system would integrate into the systems required to host hybrid Board Meetings and provide full coverage of the Boardroom so that presenters can be heard clearly by both in-person and remote attendees.

2. Replace the existing speaker system.

The existing speaker system is improperly positioned, too old, and incompatible with the systems required to host hybrid meetings. The new speaker system would integrate into the systems required to host hybrid Board Meetings and would be strategically placed so that attendees in the Boardroom can clearly hear sound regardless of where they are sitting.

3. <u>Install a video camera system.</u>

Although the Board Meetings currently do not use video, the State of California is considering legislation that would require its use. Staff recommends that video capability be included in this proposal in the event the legislation requiring video is adopted at the State level. The video camera system would consist of two cameras and equipment to control the cameras. One camera would focus on the Board and the other camera would focus on presenters. Staff would be able to control the camera angle, zoom, and which camera would display the video feed to remote attendees depending on who is speaking.

Staff recommends installing the camera system at the same time as the other equipment needed for hybrid meetings due to:

- Supply chain issues and increased demand could delay the installation of the camera system if the legislation were to pass.
- Installation and integration of the camera system at the same time as other equipment would be easier and more efficient than doing it later.

4. Install equipment to control audio and video.

Audio and video control equipment would allow for the microphone system, speaker system, video camera system, and computers to work cohesively together as a single unit. This would allow staff to control and manage the systems required for hybrid meetings easily and efficiently.

5. Install electrical outlets and network ports adjacent to the Boardroom closet. The electrical outlets and network ports would allow the Board Clerk and Information Technology Administrator to use computers and other equipment to effectively run the Board Meeting. This work would be done by staff.

Items 1 through 4 would be done by contractors as staff does not possess the expertise to install and setup the equipment needed for hybrid meetings. Staff expects that it would take two technicians one week (80 total contractor hours) to finish items 1 through 4.

The contractors indicated during their site assessments that due to supply chain issues, the current lead time for equipment is typically three to six months once a contract is issued.

The following table summarizes the estimated costs needed to prepare the Boardroom for hybrid meetings. The estimates are based only on staff research because staff did not receive any bids for the Boardroom project. The cost estimate is \$49,000 and staff believes that the option presented is the lowest cost alternative based on staff audio/video knowledge, research, and information gleaned from contractors.

Item	Quantity	Cost	Total Cost
Microphone system	1	\$15,000	\$15,000
Speaker system	1	\$5,000	\$5,000
Video camera system	1	\$6,000	\$6,000
Audio/video control equipment	1	\$3,000	\$3,000
Contractor labor	80 hours	\$150	\$12,000
Staff time			\$8,000
Total			\$49,000

It was staff's intent to include actual costs in this staff report and staff sent out a request for proposals to three vendors/contractors that have the required expertise. Bids were due on July 13, 2022 at 5:00 PM. At the request of the contractors, on July 12, 2022 the deadline was extended to July 15, 2022 at 12:00 PM. Staff did not receive any bids and reached out to the contractors to determine why. Integrated Communications Systems and Prime Electric indicated that their backlog of projects would prevent them from being able to work on the Boardroom. AVI-SPL did not provide a reason for passing on the project.

Background

Board Meetings have been held virtually in the Alvarado Conference Room since March 23, 2020 due to the COVID-19 pandemic. For about two years, meeting participants attended remotely and only the General Manager, Board Clerk, and Information Technology Administrator were physically present in the Alvarado Conference Room. Improving pandemic conditions and the easing of COVID-19 restrictions have allowed Board Members and other staff to attend the Board Meetings in person since the April 11, 2022 meeting. This has turned fully virtual meetings into hybrid meetings.

The Board directed staff in early June to determine the feasibility of hosting hybrid Board Meetings in the Boardroom instead of the Alvarado Conference Room. Staff conducted research into what work needed to be done in the Boardroom, came up with a solution based on staff audio/video expertise, and the information was presented to the Board at the June 27, 2022 Board Meeting.

Previous Board Action

6/27/2022 Board Meeting – Board received information and directed staff to obtain proposals from contractors during the General Manager's COVID-19 update.



Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy
Attorney

July 25, 2022 BOARD OF DIRECTORS MEETING AGENDA ITEM # 10

TITLE: Receive Information and Provide Direction Regarding Environmental

Compliance Administrative Fines Under Certain Circumstances (This is a

Direction Item)

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

Raymond Chau, Technical Services Work Group Manager Michael Dunning, Environmental Compliance Team Coach

Recommendation

Receive information and provide direction regarding Environmental Compliance Notice of Violation Administrative Fines

Discussion

During a previous Board committee meeting a Board Director asked:

- Is it a federal requirement to impose fines on industries for Notices of Violation?
- Does the District have to impose fines on every Notice of Violation, or does the District have any flexibility under the current Ordinance under certain circumstances (first violation over a certain period of time, cause of the violation, etc.)?

After EC staff's and District Counsel's review, it was determined that it is not a *federal* requirement to assess fines for every Notice of Violation, however it is a requirement of USD's Ordinance 36.04 – Sewer Use Ordinance. The Ordinance's Section 6.08(e) – Administrative Penalties states "Administrative penalties shall be imposed for all violations of Union Sanitary District Pretreatment Ordinance No. 36 for which a Notice of Violation would be issued."

Agenda Item No. 10 Meeting of July 25, 2022 Page 2

Changing the administration of fines and penalties in Ordinance 36.04, Section 6.08 would require Regional Water Quality Control Board (RWQCB) review. Staff's position is that the change is a minor administrative change and would not "result in less stringent requirements being imposed on Industrial Users of the POTW," as the change would not affect any pollutant or other technical requirements. It is not clear if the RWQCB would agree with staff's position, but staff could present the position to the RWQCB during their review.

The addition of administrative penalties was incorporated into the Ordinance on July 26, 2004, when the Board conducted a Public Hearing. The Board had asked staff to consider adding administrative penalties as a measure to offset District expenses related to administering permit violations. Prior to the Public Hearing, District staff reached out to all industrial users and asked for input regarding implementing administrative penalties. The District did not receive any negative feedback or concerns.

Staff is seeking input and direction from the Board if there is a desire to amend the Ordinance to allow waiving of administrative penalties under certain circumstances.

Background

None.

Previous Board Action

June 21, 2004, the Board conducted a Public Hearing to adopt cost recovery language addition to the Pretreatment Ordinance No. 36, Section 6.08.

July 20, 2004, the Board adopted Resolution No. 2425 to include Cost Recovery provisions to Ordinance No. 36, Section 6.08.



Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy
Attornev

JULY 25, 2022 BOARD OF DIRECTORS MEETING AGENDA ITEM # 11

TITLE: Solar and Cogeneration Facilities Operational Update (This is an Information

Item)

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

Raymond Chau, Technical Services Work Group Manager

Curtis Bosick, CIP Team Coach

Somporn Boonsalat, Associate Engineer

Recommendation

This is an information item.

Discussion

Alvarado Wastewater Treatment Plant Solar Carport

Since startup in September 2011 through June 30, 2022, the Solar Carport facility has generated a total of 2,246,457 kWh of power, which equates to \$443,697 in energy savings at the Plant. Additionally, the District received \$276,030 or approximately 109% of the estimated CSI incentive rebate from PG&E. The total benefit of the Solar Carport is \$719,727, which represents 80.8% of simple payback for the initial construction and ongoing maintenance costs of the facility.

Irvington Pump Station Solar Facility

Since startup in April 2012 through June 30, 2022, the solar facility has generated a total of 8,402,086 kWh of power, which equates to \$2,911,363 in energy savings at the Irvington Pump Station. Additionally, the District received \$680,632 or 109% of the estimated CSI incentive rebate from PG&E. The total benefit of the solar facility is \$3,591,995, which represents 125.3% of simple payback for the initial construction and ongoing maintenance costs of the facility.

Agenda Item No. 11 Meeting of July 25, 2022 Page 2

Cogeneration Facility

Since startup in November 2014 through June 30, 2022, the facility has generated a total of 81,268,299 kWh of power, which equates to approximately \$8,305,809 in energy savings at the Plant. Additionally, the District received \$3,114,556 or 92.1% of the SGIP incentive rebate from PG&E. The total benefit of the cogeneration facility is \$11,420,365, which represents 78.8% of simple payback for the initial construction and maintenance costs of the facility.

USD labor and equipment costs have not been factored into the maintenance costs of these facilities. The rationale is that no personnel or equipment has been acquired specifically for the maintenance and the work has been accommodated to date with existing resources.

Staff will provide the Board with an operational update of the solar and cogeneration facilities on a semi-annual basis. The attached Table 1 summarizes the operational data that was discussed in this update.

Background

Alvarado Wastewater Treatment Plant Solar Carport

The District completed construction of the solar carport facility located at the Alvarado Wastewater Treatment Plant at a cost of \$884,000 and began operation in September 2011. The original system consisted of 637 solar panels and was rated at 125 kilowatt (kW). The system rating was based on the California Energy Commission's calculation that accounted for the number of panels, the rating of each panel, and the inverter efficiency.

In February 2020, as part of the construction of the Primary Digester No. 7 Project, the western portion of the solar carport facility was demolished to allow the contractor to install the shoring system and to excavate and construct the digester tank. This resulted in the removal of 195 solar panels from the solar carport facility. The current system consists of 442 solar panels and is rated at 86 kW.

The District applied for the California Solar Initiative (CSI) incentive that would rebate \$0.2568 per kilowatt-hour (kWh) of power generated by the system for a period of five years from September 2011 through August 2016. PG&E, the administrator of the CSI program, approved an estimated incentive amount of \$252,850. In September 2016, the District received its final CSI incentive disbursement.

Irvington Pump Station Solar Facility

The District completed construction of the solar facility located at the Irvington Pump Station at a cost of \$2.85 million and began operation in April 2012. The system consists of 1,680 solar panels and is rated at 408 kW.

Agenda Item No. 11 Meeting of July 25, 2022 Page 3

The District applied for the CSI incentive that would rebate \$0.15 per kWh of power generated by the system for a period of five years from June 2012 through May 2017. PG&E approved an estimated incentive amount of \$623,370. In February 2017, the District received its final CSI incentive disbursement.

Cogeneration Facility

The District completed construction of the Cogeneration Facility located at the Alvarado Wastewater Treatment Plant at a construction cost of \$11.8 million and the facility was fully operational in late November 2014. The facility consists of two 850-kW biogas-fueled engine generators and a packaged biogas conditioning system.

The District applied for the Self-Generation Incentive Program (SGIP) that provides financial incentives for the installation of new, qualifying self-generation equipment installed to meet all or a portion of the electric energy needs of a facility. PG&E, the administrator of the SGIP in Northern California, approved the District's application for a maximum rebate of \$3.38 million. The District received half of the total rebate from PG&E in 2015 upon successful operational testing of the facility. The other half was paid to the District annually over the next five years and was dependent on the actual electric energy generated by the facility and the actual amount of engine and exhaust heat recovered and utilized to heat the biosolids in the primary digesters. In June 2020, the District received its final SGIP incentive disbursement.

Previous Board Action

None.

PRE/RC/CB/SB

Attachment: Table 1 – Solar and Cogeneration Facilities Operational Data

Union Sanitary District Table 1 - Solar and Cogeneration Facilities Operational Data

Facility	System Rating ¹ (kW)		Total Energy Generated To Date (kWh)	Value of Energy Generated To Date (\$)	Rebates Received To Date (\$)	Total Received or Generated (\$)	Construction Cost (\$)	Maintenance Costs To Date ⁴ (\$)	Total Costs Incurred To Date (\$)	Simple Payback To Date (%)	Simple Payback Term (Years)	Original Payback Term ⁵ (Years)	Comments
Alvarado WWTP Solar Carport ⁶	86	78,349	2,246,457	443,697	276,030	719,727	884,000	6,225	890,225	80.8%	14.5		System began operation in September 2011. Values are current through June 30, 2022.
Irvington Pump Station Solar Facility	408	365,858	8,402,086	2,911,363	680,632	3,591,995	2,850,000	17,234	2,867,234	125.3%	8.4	10.0	System began operation in April 2012. Values are current through June 30, 2022.
Cogeneration Facility ³	1,700	5,975,428	81,268,299	8,305,809	3,114,556	11,420,365	11,800,000	2,691,795	14,491,795	78.8%	12.0	8.9	System began operation in late November 2014. Values are current through June 30, 2022.

- 1) System Rating for the solar facilities is based on the number of panels, the rating of each panel, and the inverter efficiency.
- 2) Period is from January 2022 through June 2022.
- 3) The cogeneration equipment consists of two 850-kW engine generators.
- 4) Maintenance costs do not include USD labor or equipment costs.
- 5) Original payback terms for the Irvington Pump Station Solar Facility and Cogeneration Facility were calculated during the design phase. A payback period was not calculated for the Alvarado WWTP Solar Carport at the time the project was designed.
- 6) Due to the construction of Primary Digester No. 7, the number of panels at the Alvarado WWTP Solar Carport was reduced from 637 to 442, and the system rating was reduced from 125 kW to 86 kW in February 2020.



Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy *Attorney*

JULY 25, 2022 BOARD OF DIRECTORS MEETING AGENDA ITEM #12

TITLE: CAL-Card Quarterly Merchant Activity Report (This is an Information Item)

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

Mark Carlson, Work Group Manager

Skip Calvo, Purchasing Agent

Recommendation

Information only.

Discussion

Information only.

Background

The attached CAL-Card Merchant Spend Analysis details the CAL-Card activity for the third quarter of FY 2022. This covers transactions from the CAL-Card billing period March 23, 2022 through June 22, 2022. During this quarter, we had 284 transactions totaling \$117,176.23.

Attachments: Union Sanitary District Cal-Card Report

Previous Board Action

None.

Vendor's Name	Purchase Description	Total	Transaction Date	Work Group	Team
SulfiLogger	SulfiLogger Assembly	10,006.45	5/18/2022	BS	FAST
Apache Pipeline	Pig Tracking - Transmitter and Receiver	8,179.80	3/30/2022	FMC	FMC
Bigfoot Crane Co.	Flying Pallet Fork	4,561.65	3/31/2022	BS	FAST
ULINE	Auto Scrubber & Accessories	4,149.01	6/1/2022	BS	FAST
SunSetter	Motorized Awning	2,728.73	5/3/2022	BS	FAST
Alameda County	CUPA Fee for Newark Pump Station	2,473.00	6/2/2022	FMC	FMC
D.B.I.	Equipment Repair Parts	2,433.00	6/10/2022	BS	FAST
Bluebeam	CIP User Liscenses	2,094.00	5/27/2022	BS	FAST
Survey Monkey	Annual Renewal	1,800.00	4/2/2022	BS	FAST
Home Depot	Hand Held Pipe Threader	1,686.73	6/15/2022	BS	FAST
Spectro-UV	UV/Vis Radiometer	1,636.44	5/17/2022	T&D	RST
Apec water	Water filters for TPO	1,504.59	4/11/2022	CS	ST
Alldata	Alldata subscription	1,500.00	6/7/2022	CS	ST
EPA Sales	Hydro Nozzles (N 16BB8025, N 16LBB025-)	1,485.49	4/28/2022	CS	СТ
Amazon	Noise Dosimeter	1,464.38	6/18/2022	BS	FAST
Amazon	Water dispensers	1,275.81	5/20/2022	CS	ST
Ford Parts	LH Mirror, T2377	1,264.91	5/17/2022	CS	ST
PMA Conference-Formsite	SCADA Training Class	1,195.00	6/3/2022	BS	FAST
Cable Ties and More	Heavy Duty Cable Protector Ramps	1,168.53	5/9/2022	FMC	FMC
Richard Palmer & Associates Inc.	Planner Scheduler Training	1,099.00	5/17/2022	CS	MTV
SP Wilmad	Condensers	1,076.76	6/1/2022	T&D	RST
ISA	Industrial Data Communications Course	1,070.00	3/23/2022	FMC	FMC
Uline	New Trash Cans	1,003.27	5/19/2022	CS	MTV
Wistia	Wistia web hosting renewal	950.40	4/28/2022	FMC	ITT
Bonafide Masks.com	KN95 Respirator Face Masks	941.38	6/7/2022	BS	FAST
U-Line	Storage containers	936.16	5/31/2022	CS	СТ
Amazon	Water Dispenser	928.53	5/18/2022	CS	ST
Ebay	Mechnical Seal	910.98	5/10/2022	FMC	FMC
CASQA	CASQA Stormwater Conference	900.00	6/16/2022	TS	ECT
Amazon	Water Dispensers	893.76	4/29/2022	CS	ST
Amazon	Vehicle Parts - P8364	892.54	4/19/2022	CS	ST
Haworth Retail Store	Office Chair	876.14	4/16/2022	BS	FAST
VWR International	Coliform bath with MX controller	848.03	4/29/2022	BS	FAST
CA Water Environment Association	Job Posting bundle	800.00	4/21/2022	BS	FAST
American Factory	Parts For Const. truck	795.84	4/4/2022	CS	ST
CWEA	CWEA AC22	795.00	3/22/2022	CS	СТ
Eagle Wings Company Inc.	Fall Protection Training & Confines Space Training	790.00	5/17/2022	CS	MTV
Eagle Wings Company Inc.	Fall Protection Training	790.00	5/23/2022	CS	MTV
Cat's Auto	AC Repair, T2269	761.28	6/8/2022	CS	ST
CWEA	CWEA P3S Conference	675.00	5/17/2022	TS	ECT

Vendor's Name	Purchase Description	Total	Transaction Date	Work Group	Team
CWEA	CWEA P3S Conference	675.00	5/27/2022	TS	ECT
Apec Water	UV water filter	666.49	5/18/2022	CS	ST
Best Buy	Webcams for District users	664.47	4/13/2022	FMC	ITT
Apec Water	UV water filter	654.95	5/13/2022	CS	ST
CASA	Registration for 2022 Annual Conference Aug 10-12	625.00	6/2/2022	TS	CST
IDEXX	Microbiology QC	594.28	4/8/2022	T&D	RST
Owen Equipment	Relief valve, Trk T3252	574.77	4/25/2022	CS	ST
NSI Lab Solutions	QC samples	561.00	5/17/2022	T&D	RST
ZipRecruiter	Recruiter Plan	549.00	4/28/2022	BS	FAST
ZipRecruiter	Recruiter Plan - Monthly subscription	549.00	5/28/2022	BS	FAST
Amazon	Office Supplies (Ultratomic Wall Clocks for Admin Bldg)	527.10	6/6/2022	TS	CST
ID Enhancements, Inc.	Blank Distict ID cards for OST	518.57	4/28/2022	FMC	ITT
ebay	Ecco back up camera	513.72	5/10/2022	CS	ST
NFPA	NFPA 70 E Safety Handbook	501.09	5/31/2022	FMC	FMC
Southwest	Plane ticket for NeoGov Conference	491.96	6/15/2022	BS	FAST
Amazon	Small Tools	488.31	6/21/2022	FMC	FMC
Apec Water	UV water filter	484.75	5/2/2022	CS	ST
Amazon	USB hubs for laptop users	481.50	5/27/2022	FMC	ITT
1Password	1Password subscription for IT	479.40	5/13/2022	FMC	ITT
Neato Robotics	Janitorial Vacuum	470.69	4/1/2022	CS	ST
Crown Awards	Trophies for Leadership School graduates	470.60	5/6/2022	BS	OST
Amazon	Office Supplies (Ultratomic Wall Clocks for Admin Bldg)	451.80	6/6/2022	TS	CST
ZipRecruiter	4 Jobs Per Month Subscription	449.00	3/28/2022	BS	OST
SHRM HR Jobs	Job Posting for HR Manager position	449.00	4/26/2022	BS	OST
NSI Lab Solutions	PT and QC samples	448.00	5/3/2022	T&D	RST
Norkan	Devoe Devprep88 Degreaser	448.00	6/1/2022	FMC	FMC
CDW-G	Spare Cisco 8851 phone	444.27	4/13/2022	FMC	ITT
Best Buy	Wireless keyboards and mice combo for District users	442.95	5/11/2022	FMC	ITT
Real Truck	Side Steps, T2269	428.27	5/31/2022	CS	ST
CWEA	Annual Conference registration - 1 day	425.00	3/30/2022	T&D	RST
Wilcon Industries	Flare Thermal Couplers	423.69	6/15/2022	FMC	FMC
Kleen Rite	Chem pump for foaming	416.82	4/27/2022	CS	ST
ERA	Trace Metals standard	415.48	5/25/2022	T&D	RST
Industrial Safety Products	O-Ring Extenders	409.66	4/11/2022	CS	ST
Zoom	Zoom for Board meetings	408.39	6/17/2022	FMC	ITT
Burlington Labs	Electrical safety gloves	406.87	6/15/2022	FMC	FMC
Eagle Wings Co	Forklift Training	395.00	5/17/2022	FMC	FMC
Safety Center Inc.	Competent Person Excavation Training	390.00	4/28/2022	CS	MTV
NATEC International Inc.	External Trainings (Confined Space, Fall Protection)	381.10	3/25/2022	TS	CST
Ford	Parts For Const. truck	370.50	4/19/2022	CS	ST

		_	_		
Vendor's Name	Purchase Description	Total	Transaction Date	Work Group	Team
DFK Solutions	Collection System 101 Training	370.00	5/18/2022	CS	СТ
Rival Branding	Clean Seal Door Stickers - Janitorial	368.00	5/6/2022	CS	ST
CDW-G	Spare Cisco 8811 phone	364.81	4/6/2022	FMC	ITT
Amer. Truck	Comp. Repairs, T2374	360.00	5/27/2022	CS	ST
Safety Center Incorporated	Confined Space Training	350.00	4/12/2022	CS	MTV
Eagle Wings Company Inc.	Fall Protection Training	350.00	4/26/2022	CS	MTV
Lowes	PVC parts for water dispensers and shop stock	349.44	5/2/2022	CS	ST
Home Depot	Plywood	346.60	6/7/2022	FMC	FMC
Tri City Rock	Concrete and Rental Trailer	345.11	6/1/2022	CS	MTV
Amazon	Water dispenser for TPO	340.63	4/11/2022	CS	ST
Apec Water	Water Filters	332.18	5/12/2022	CS	ST
WEF Main	CWEA Professional Membership (5/1/22 thru 4/30/23)	332.00	4/15/2022	TS	CIP
webstaurantstore	Slurry seal cardboard rounds	331.02	6/8/2022	CS	СТ
IDEXX	Colilert media	330.73	6/10/2022	T&D	RST
Thinkscape Limited	Zee Drive support and maintenance renewal	327.00	4/11/2022	FMC	ITT
Home Depot	Garbage disposer for Admin kitchen	326.65	6/3/2022	CS	ST
Zoom	Zoom for Boardmeetings	325.44	4/17/2022	FMC	ITT
Zoom	Zoom for Board meetings	325.44	5/17/2022	FMC	ITT
GASB	GASB Subscription	322.00	4/7/2022	BS	FAST
Resort at Squaw Creek	Hold for CASA Conference Hotel Reservation	301.81	6/1/2022	TS	CST
Resort at Squaw Creek	Hold for CASA Conference Hotel Reservation	301.81	6/1/2022	TS	CST
Resort at Squaw Creek	Hold for CASA Conference Hotel Reservation	301.81	6/1/2022	TS	CST
City of Newark	City of Newark Permit	300.00	5/17/2022	CS	СТ
My Fonts	Futura Font for rebranding	299.00	5/11/2022	FMC	ITT
Lands' End	Uniform	297.22	5/17/2022	TS	ECT
ERA	PT Sample	295.59	4/30/2022	T&D	RST
еВау	Back-up Monitor, T2269	290.63	5/31/2022	CS	ST
CWEA	Job posting for Mechanic I/II	290.00	6/10/2022	BS	FAST
Idville	Printer ribbon for ID printer	288.89	4/28/2022	FMC	ITT
Orange-Traffic.com	Slurry seal temp. markers	286.32	6/8/2022	CS	СТ
CPSHR	Registration for Webinar on Fundamental of HR	284.00	4/20/2022	BS	OST
U-Line	Pad driver for janitors polisher	276.66	6/14/2022	CS	ST
Peterson Trucks	Cab bushing & absorber T3342	275.09	3/26/2022	CS	ST
Fastenal	Bolts, Epoxy	269.02	3/31/2022	FMC	FMC
Best Buy	Headphones for District users	265.77	3/28/2022	FMC	ITT
Best Buy	Headphones for District users	265.77	4/13/2022	FMC	ITT
Best Buy	Headphones for District users	265.77	4/13/2022	FMC	ITT
CWEA	Training	263.00	5/6/2022	TS	ECT
NSI Lab	PT sample	263.00	5/31/2022	T&D	RST

Vendor's Name	Purchase Description	Total	Transaction Date	Work Group	Team
vendor s Name	Purchase Description	TOTAL	Transaction Date	Work Group	Team
Jobelephant.com, Inc.	Job Posting for HR Manager @ Talent.com & HRjobs.com	258.96	6/7/2022	BS	FAST
Cleanfreak	Floor buffer pads	258.44	5/24/2022	CS	СТ
Battery Guy	Replacement Battery for E-Lights	256.00	5/10/2022	FMC	FMC
NCCCO	Crane Certification CBT Exam fee	250.00	5/25/2022	FMC	FMC
NCCCO	Crane Certification CBT Exam fee	250.00	5/25/2022	FMC	FMC
NCCCO	Crane Certification CBT Exam fee	250.00	5/25/2022	FMC	FMC
DKF Solutions Group, LLC	External Training (Excavation Competent Person)	245.00	4/19/2022	TS	CST
Fremont Flowers	Bereavement Flowers	235.91	5/26/2022	TS	CST
Amazon	UV lamp	234.29	5/26/2022	T&D	RST
еВау	Alternator, T2355	232.41	5/13/2022	CS	ST
Lowes	Water dispenser parts/shop stock	227.55	4/14/2022	CS	ST
Kleen Rite	Chemicle mixing pump	218.36	6/8/2022	CS	ST
Office of Water Programs - Sacramento State	O&M WW Collection Manuals	217.05	5/11/2022	CS	ST
Kleen Rite	Chem mixing pump, T3345	215.68	4/6/2022	CS	ST
Roadrunner Glass and Door	Glass for Paint Shop	211.68	5/16/2022	FMC	FMC
Summit	Right Angle Wireless	211.26	6/15/2022	FMC	FMC
Cat's Automotive	Repair a/c, Trk T1309	210.53	5/11/2022	CS	ST
Brown and Caldwell	Job Posting for CIP Coach on BC Water Jobs	200.00	4/20/20222	BS	OST
Safety Center	Traffic Control/Flagging Safety Training	195.00	4/15/2022	TS	ECT
Lowe's	Water dispenser/parts	192.91	5/18/2022	CS	СТ
etrailer	Hitch for easement trailer	192.11	5/5/2022	CS	ST
CWEA	CWEA Membership	192.00	4/4/2022	TS	ECT
CWEA	CWEA Membership	192.00	5/4/2022	TS	ECT
CWEA	Prof. Membership	192.00	4/25/2022	CS	ST
CWEA	Prof. Membership	192.00	4/25/2022	CS	ST
CWEA	Membership Renewal	192.00	5/16/2022	FMC	FMC
CWEA	CWEA Association Membership	192.00	6/7/2022	TS	ECT
Enviro Safety	Gloves	189.10	5/23/2022	CS	ST
Waterandwastewaterjobs	Job Posting for TS Manager	185.00	4/21/2022	BS	OST
CPSHR	Register Jason for Job Analysis class	184.00	5/11/2022	BS	OST
California Board for Professional Engineers, Land					
Surveyors, and Geologists	Professional Engineer License Renewal	180.00	5/4/2022	TS	CST
NCCCO	Crane Certification Practical Test	180.00	6/14/2022	FMC	FMC
Burt Process Equip	Chem pump for foaming	178.86	5/18/2022	CS	ST
Amazon	Safety helmets	177.18	5/26/2022	CS	СТ
Lowe's	Mortar (9 ea. 55lb sacks)	176.23	5/4/2022	CS	СТ
Southwest Airlines	Tri-State Seminar Airfare	172.96	6/6/2022	TS	ECT
FastSigns.com	CS Crew Room Command Board Labels	172.19	5/24/2022	CS	ST

Vendor's Name	Purchase Description	Total	Transaction Date	Work Group	Team
Office of Water Programs California State	Mike Lothian Office of Water Programs Treatment of				
University, Sacramento	Metal Wastestreams course	169.25	5/12/2022	TS	ECT
CDW-G	Spare Cisco 7811 phone	166.06	5/31/2022	FMC	ITT
Fastsigns	Vinyl Decals (CS Crew Room)	165.65	6/8/2022	CS	ST
Safety Center Incorporated	Traffic/Flagger Safety Training	165.00	4/8/2022	CS	MTV
Safety Center Incorporated	Traffic/Flagger Safety Training	165.00	4/8/2022	CS	MTV
Southwest Airlines	Airfare	162.95	4/27/2022	TS	CST
State Supply	Float Seat	161.34	4/14/2022	FMC	FMC
BestBuy.com	CCTV Truck Replacement Monitor	160.04	5/4/2022	CS	ST
Dropbox	Dropbox renewal	158.88	4/28/2022	FMC	ITT
Lowes	Wood for filter cabinet	152.09	5/12/2022	CS	ST
/ubico	3 YubiKeys	149.52	4/6/2022	FMC	ITT
Environmental Express	ICP digestion filters	140.84	3/2/2022	T&D	RST
Pesticide Applicators Professional Assoc.	PAPA Seminar registration	140.00	5/31/2022	CS	СТ
Amazon	Surface Pro charger and right angle USB cables	137.30	5/30/2022	FMC	ITT
Amazon	Keyboard and Mouse	126.13	4/14/2022	TS	CST
Autozone	AC Fan, T1268	125.10	6/7/2022	CS	ST
Amazon	Ergonomic mouse	121.77	3/22/2022	FMC	ITT
Ebay	UV light for water filters	121.32	5/12/2022	CS	ST
Ebay	UV light for water filters	121.32	5/18/2022	CS	ST
Habibi's Birria	Working Lunch	121.19	6/16/2022	TS	CST
A&A Sheet Metal	Cabinet Key	113.00	3/25/2022	CS	ST
East Bay Flowers	Flowers - Policy #5335	111.85	4/23/2022	CS	ST
Northern Tool	Splitter	110.74	4/13/2022	CS	ST
Office of Water Programs	O&M of Wastewater Collection Systems Manual	110.53	5/27/2022	CS	СТ
Traininng	Registration for Onboard webinar	110.00	3/23/2022	BS	OST
Amazon	Console, P8364	109.50	4/23/2022	CS	ST
Walmart.com	Palmolive Dish Soap	108.78	4/20/2022	CS	ST
Hach	Nitrification Inhibitor	106.57	5/9/2022	T&D	RST
CWEA	Certificate Renewal	106.00	5/25/2022	TS	ECT
	Air Sampling Filter: RAE Systms External Filters 45		3/23/232		
EnviroSupply: Carbon Bulk Sales	mm/0.45 mm	105.51	3/29/2022	TS	CIP
Kleen Rite	MiniDos repair kit, foaming	103.27	4/29/2022	CS	ST
CustomizedLanyards	100 Lanyards for ID badges	101.45	3/28/2022	BS	OST
- Customized Larry ards	Milwaukee M18 18-Volt 5.0Ah Lithium-Ion XC Extended	101.73	3/20/2022	55	031
Home Depot	Capacity Battery Pack	99.46	5/31/2022	TS	CIP
Livermore Valley Florist	Flowers - Policy #5335	99.46	4/21/2022	CS	ST
•	,			TS	
Tri-State Seminar, LLC International Code Council	Annual Tri State Seminar	99.00	5/19/2022		ECT
Tri-State Seminar LLC	UST online proctored testing Tri-State Seminar Attendee Registration	99.00 99.00	5/5/2022 5/23/2022	FMC TS	FMC ECT

Vendor's Name	Purchase Description	Total	Transaction Date	Work Group	Team
Quick Search	Background check for the new Assistant Storekeeper	98.55	6/7/2022	BS	FAST
Amazon	Safety helmet	97.40	6/5/2022	CS	СТ
Amazon	Saferty helmet	97.40	6/1/2022	CS	СТ
Signs.com	Aluminum Sign	97.05	4/28/2022	FMC	FMC
CWEA	Certificate Renewal	96.00	4/29/2022	TS	ECT
CWEA	CWEA Association Membership	96.00	6/7/2022	TS	ECT
Staples	Aluminum clipboard	94.79	4/13/2022	CS	СТ
Good Scents Florist	Flowers - Policy #5335	94.40	4/1/2022	CS	ST
Best Buy	Wireless mice for District users	93.00	3/29/2022	FMC	ITT
CWEA	Plant Maint. Tech Cert renewal fee for	91.00	6/21/2022	FMC	FMC
OIL-RITE	STEEL LIQUID GAGE	90.68	4/19/2022	FMC	FMC
Southpoint Casino	Tri-State Seminar Lodging	90.40	5/25/2022	TS	ECT
Southpoint Casino	Tri-State Seminar Lodging	90.40	6/6/2022	TS	ECT
Ebay	E-Stop button for Drill	90.18	4/12/2022	CS	ST
	Milwaukee M18 Fuel 120 MPH 450 CFM 18-Volt Lithium-				
	Ion Brushless Cordless Handheld "Leaf" Blower (Tool-				
Home Depot	Only)	87.70	5/31/2022	TS	CIP
Alameda County	Service Fee For Ala. County Environmental Health	83.97	6/2/2022	FMC	FMC
·	Subscription to poll site for scheduling meetings with				
Doodle	Board	83.40	4/12/2022	TS	CST
Dish Network	Dish Network Monthly Charge	81.04	4/2/2022	BS	FAST
Dish Network	Dish Network Monthly Charge	81.04	5/3/2022	BS	FAST
Dish Network	Dish Network Monthly Charge	81.04	6/2/2022	BS	FAST
Tarrell LiveScan & Notary	Live scan fingerprinting for notary renewal	79.00	4/21/2022	TS	CST
Michael's	Healthy Workplace Committee Farmer's Ledge Supplies (c	77.43	6/17/2022	TS	CST
Costco	Sides for BBQ	76.54	3/30/2022	TS	CST
CHEMetrics	H2S Testing Kit; Sulfide Test Kit - CHEMets Visual Kit	74.30	6/10/2022	TS	CIP
American Red Cross	CPR Class Registration	70.00	5/9/2022	BS	OST
The Construction Zone	Vehicle Decals - TWD Logo	66.45	5/6/2022	CS	ST
Rock Auto	Vehicle parts - T1271	65.32	4/11/2022	CS	ST
Amazon	Temp Gauge	63.38	4/1/2022	CS	ST
Lowes	1/2" Flex Conduit	60.91	3/30/2022	FMC	FMC
Amazon	Supplies (safety vests and tab dividers)	60.33	4/22/2022	TS	CST
	(2) replacement safety signs for the top of East Aeration.				
	Custom OSHA Safety Sign "Warning; Restricve Roof				
www.safetysign.com	Loading Limits; Authorized Staff Only"	60.32	6/2/2022	TS	CIP
Fix.com	Snake tip	59.28	4/28/2022	CS	ST
WinZip	WinZip support and maintenance renewal	57.50	4/6/2022	FMC	ITT
CDW-G	Power BI license	53.70	5/26/2022	FMC	ITT
Amazon	Car washing supplies	52.02	4/30/2022	CS	ST

Vendor's Name	Purchase Description	Total	Transaction Date	Work Group	Team
CPSHR	Registration for "Asking Powerful Questions"	50.00	5/17/2022	BS	OST
Home Depot	Temp Gauge	49.80	4/11/2022	CS	ST
Staples	Aluminum Clipboard for new Employee	47.40	3/22/2022	CS	MTV
Zoom	Zoom webinar license	45.49	5/31/2022	FMC	ITT
Fremont Chamber of Commerce	Fremont State of the City event	45.00	6/9/2022	TS	CST
	Registration for Fremont State of the City Meeting and				
Fremont Chamber of Commerce	Breakfast	45.00	6/20/2022	TS	CST
	Registration for Fremont State of the City Meeting and				
Fremont Chamber of Commerce	Breakfast	45.00	6/21/2022	TS	CST
Lowes	Outlet for water dispenser	44.90	4/14/2022	CS	ST
Amazon	Water Dispenser Warranty	42.00	4/28/2022	CS	ST
Amazon	Water Dispenser Warranty	42.00	5/18/2022	CS	ST
Facebook	Boosted posts (Ads)	40.00	4/10/2022	TS	CST
Amazon	Fuel filter cap, Trk T2355	38.34	6/13/2022	CS	ST
Harbor Freight	Cart Casters	37.44	5/23/2022	CS	ST
Crown Awards Inc.	2 trophies for OST Award	36.97	5/24/2022	BS	OST
	Recycled Water from Concept ot Reality - Live Webinar				
California Water Environmental (CWEA)	on 3/24 at Noon	35.00	3/23/2022	TS	CIP
CWEA	Recycled Water Webinar	35.00	3/23/2022	TS	CST
American Red Cross	CPR Class Registration	35.00	5/9/2022	BS	OST
Lowes	5-gallon buckets with lids	34.40	6/15/2022	CS	ST
Amazon	Water Dispenser Warranty	34.00	5/18/2022	CS	ST
Amazon	Office Supplies (frames for District awards)	31.74	6/4/2022	TS	CST
Amazon	CS Safety - April	29.35	6/12/2022	CS	СТ
Lowes	Access panel boardroom projector	28.98	4/6/2022	CS	ST
Amazon	Vehicle parts - C7350	28.43	3/29/2022	CS	ST
Walmart.com	Accidental Personal Charge	27.76	3/29/2022	CS	ST
Amazon	CS Safety - April	27.68	5/25/2022	CS	СТ
Home Depot	RYOBI 26-piece 1/4 in. Drive Ratchet and Socket Set	27.65	6/16/2022	TS	CIP
Amazon	Office Supplies (picture frames for District awards)	25.40	6/9/2022	TS	CST
Crown Awards	Trophy to recognize employee	24.92	4/19/2022	BS	OST
Amazon	CS Safety - May	24.92	6/5/2022	CS	СТ
Crown Awards	1 trophy for OST Award	24.48	5/24/2022	BS	OST
Lowes	1/2 flex conduit and clamps	24.41	5/5/2022	FMC	FMC
Digital River	Backup Server Edition Annual Maintenance	24.00	4/26/2022	FMC	ITT
Amazon	Remote batteries	23.53	6/15/2022	CS	ST
Amazon	Office Supplies (Expo Marker set)	22.26	6/4/2022	TS	CST
Autozone	Air filter, T2372	22.14	4/8/2022	CS	ST
Facebook	Boosted posts (Ads)	20.30	5/10/2022	TS	CST
Facebook	Boosted posts (Ads)	20.00	6/10/2022	TS	CST

Vendor's Name	Purchase Description	Total	Transaction Date	Work Group	Team
	•			•	
Smart & Final	Sides for BBQ	19.98	3/30/2022	TS	CST
Amazon	CS Safety - May	19.92	6/9/2022	CS	СТ
Amazon	Wire safety cables	18.82	5/11/2022	CS	ST
Walgreens	Passport photo for notary renewal	17.71	4/21/2022	TS	CST
Amazon	Amazon Prime Membership	16.60	4/21/2022	CS	ST
Amazon	Amazon Prime Membership	16.60	5/21/2022	CS	ST
Amazon	Amazon Prime Membership	16.60	6/21/2022	CS	ST
Lowes	Water Filter Parts	14.38	5/2/2022	CS	ST
Amazon	Switch, T2374	10.62	5/14/2022	CS	ST
Amazon	Office Supplies (corded mouse)	9.98	6/6/2022	TS	CST
Harbor Freight	Tools for shop	9.91	3/22/2022	CS	ST
Autozone	Brake line union	2.87	5/6/2022	CS	ST
San Jose Mercury News	Digital Subscription 6 months	1.00	6/2/2022	TS	CST
A&A Sheet Metal	Lock Cylinder Cabinet Key	-53.00	4/4/2022	CS	ST
Notary Learning Center	Refund for Passport photo and live scan fingerprinting	-105.00	4/4/2022	TS	CST
Amazon	CREDIT - Helmet return	-177.18	6/11/2022	CS	СТ
American Truck	REFUND - Wheel	-534.11	4/4/2022	CS	ST
American Factory	REFUND - Wheel	-795.84	4/5/2022	CS	ST
Construction Zone	Traffic Signs for Warehouse Stock	-865.79	3/30/2022	CS	ST

TOTAL FOR Q4: \$117,176.23

TOTAL # OF TRANSACTIONS FOR Q4: 284



Summary of the EBDA Commission Meeting Thursday, June 16, 2022, at 9:30 a.m.

- Commissioners Andrews, Cutter, Duncan, Johnson, and Lathi were present. This meeting was conducted telephonically and the dial-in information for the meeting was provided in the agenda.
- Commissioner Lathi moved to approve the Commission Meeting Minutes of May 19, 2022; List of Disbursements for May 2022; Treasurer's Report for May 2022; and Resolution Authorizing Remote Teleconference Meetings Pursuant to AB 361. The motion was seconded by Commissioner Andrews and carried 5-0.
- The Commission unanimously approved the reports from the Financial Management, Personnel, and Operations & Maintenance Committees. The following items were discussed:

• General Managers Report

The General Manager (GM) provided updates on the Hayward Area Shoreline Planning Agency (HASPA) Joint Powers Agreement (JPA) extension, biosolids management, and the Authority's Strategic Planning framework. The GM reported that the Regional Water Board recently inspected EBDA's facilities and the inspection report will be shared at a future meeting.

Financial Management Committee

The GM reported on the June 13 meeting of the Financial Management Committee. The Committee reviewed the May List of Disbursements and Treasurer's Report and recommended approval of the items. The Committee also reviewed Amendment No. 10 to the Authority's contract with Meyers Nave and recommended approval.

 Motion Authorizing the General Manager to Execute Amendment No. 10 to the Fee Contract By and Between East Bay Dischargers Authority and Meyer Nave, a Professional Corporation

Commissioner Duncan moved to approve the item. The motion was seconded by Commissioner Andrews and carried unanimously 5-0, by roll call vote.

Ayes: Commissioners Johnson, Andrews, Lathi, Duncan, Chair Cutter

Noes: None Absent: None Abstain: None

Operations and Maintenance Committee

The Operations and Maintenance Manager and GM reported on the Operations and Maintenance Committee meeting of June 14. The O&M Manager discussed the status of EBDA facilities and provided updates on the OLEPS Emergency Outfall Upgrade, OLEPS Switchboard Upgrade, and Roof Replacement Projects. The GM updated the Commission on the Cargill project and the Advanced Quantitative Precipitation Information (AQPI) Project.

• Motion to Approve the Renewal and Replacement Fund Project List for Fiscal Year 2022/2023

Commissioner Johnson moved to approve the item. The motion was seconded by Commissioner Lathi and carried unanimously 5-0, by roll call vote.

Ayes: Commissioners Johnson, Andrews, Lathi, Duncan, Chair Cutter

Noes: None Absent: None Abstain: None

Motion Authorizing the General Manager to Issue a Purchase Order to Univar Solutions USA, Inc. for Sodium Bisulfite 25% Solution for Fiscal Year 2022/2023 in the Amount of \$125,000

Chair Cutter moved to approve the item. The resolution was seconded by Commissioner Duncan and carried unanimously 5-0, by roll call vote.

Ayes: Commissioners Johnson, Andrews, Lathi, Duncan, Chair Cutter

Noes: None Absent: None Abstain: None

Personnel Committee

The GM reported on the June 14 meeting of the Personnel Committee. The Committee reviewed proposed revisions to the Authority's Conflict of Interest Code and supports bringing it to the Commission for approval. The Committee also discussed pending legislation that would amend the Brown Act.

Motion to Approve Fiscal Year 2022/2023 Commission Chairperson and Vice Chairperson

Chair Cutter moved to approve the item. The motion was seconded by Commissioner Johnson and carried unanimously 5-0, by roll call vote:

Ayes: Commissioners Johnson, Andrews, Lathi, Duncan, Chair Cutter

Noes: None Absent: None Abstain: None

Motion to Accept Fiscal Year 2022/2023 Committee Appointments and Schedule

Commission Andrews moved to approve the item. The motion was seconded by Commissioner Duncan and carried unanimously 5-0, by roll call vote:

Ayes: Commissioners Johnson, Andrews, Lathi, Duncan, Chair Cutter

Noes: None Absent: None Abstain: None

• Resolution of Appreciation for Jason Warner

Chair Cutter moved to approve the item. The resolution was seconded by Commissioner Lathi and carried unanimously 5-), by roll call vote:

Ayes: Commissioners Johnson, Andrews, Lathi, Duncan, Chair Cutter

Noes: None Absent: None Abstain: None

• Items from Commission and Staff

Commissioner Duncan announced a Juneteenth Wellness Festival taking place at the Hayward Heritage Plaza on Saturday, June 18.

• Adjournment

Chair Cutter adjourned the meeting at 10:50 a.m.



Directors

Manny Fernandez Tom Handley Pat Kite Anjali Lathi Jennifer Toy

Officers

Paul R. Eldredge General Manager/ District Engineer

Karen W. Murphy *Attorney*

JULY 25, 2022 BOARD OF DIRECTORS MEETING AGENDA ITEM # 14

TITLE: COVID-19 Update (This is an Information Item)

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

Recommendation

Information only.

Discussion

None.

Background

General Manager Eldredge will provide an update on the District's COVID-19 response and staffing levels.

Previous Board Action

None.

Check No.	Date 7/14/2022	Dept	Invoice No. 533620220622	Vendor US BANK CORP PAYMENT SYSTEM	Description MONTHLY CAL-CARD REPORT - JUNE 2022	Invoice Amt \$40,057.64	Check Am \$40,057.64
181243	7/14/2022	110	4MM09	BAY AREA AIR QUALITY MGMT DIST	ANNUAL PERMIT RNWL-PLANT A1209	\$32,734.00	\$32,734.00
181255	7/14/2022	143	201180068	HAZEN AND SAWYER	THERMAL DRYER FEASIBILITY STUDY	\$7,465.00	\$25,011.04
	7/14/2022	143	201180076		PUMP STATION ASSET CONDITION ASSESSMENT	\$17,546.04	
181237	7/7/2022	143	800524.6	WESTERN WATER	CENTRIFUGE BUILDING IMPROVEMENTS	\$24,937.50	\$24,937.50
181270	7/14/2022	170	761520220630	PACIFIC GAS AND ELECTRIC	SERV TO 06/23/22 NEWARK PS	\$22,730.08	\$22,730.08
181246	7/14/2022	143	800531.4	CASEY CONSTRUCTION INC	GRAVITY SEWER REHAB/REPLACEMENT	\$22,482.63	\$22,482.63
181240	7/14/2022		2003577	ALLIANT INSURANCE SERVICES INC	PHYSICAL DAMAGE ANNUAL PREMIUM RENEWAL 7/22-7/23	\$21,350.00	\$21,350.00
181228	7/7/2022	173	2019702	FARALLON GEOGRAPHICS INC	ARCHES SSC ENHANCEMENTS	\$17,475.00	\$17,475.00
181259	7/14/2022	110	9017756916	KEMIRA WATER SOLUTIONS INC	48,340 LBS FERROUS CHLORIDE	\$7,449.17	\$14,898.34
	7/14/2022	110	9017757264		48,460 LBS FERROUS CHLORIDE	\$7,449.17	
181231	7/7/2022	143	201180095	HAZEN AND SAWYER	HEADWORKS DEGRITTING STUDY	\$10,212.97	\$10,212.97
181267	7/14/2022	170	106037	MUNIQUIP, LLC	ASTD PUMP REBUILD PARTS	\$9,952.37	\$9,952.37
181260	7/14/2022		374322220701	LINCOLN NATIONAL LIFE INS COMP	LIFE & DISABILITY INSURANCE - JUL 2022	\$9,329.81	\$9,329.81
181227	7/7/2022	150	10060018	EAST BAY MUNI UTILITY DISTRICT	FY22 BACC PARTICIPATION FEE	\$8,250.00	\$8,250.00
181224	7/7/2022	143	24517	CAROLLO ENGINEERS	ALVARADO INFLUENT PS PUMPS AND VFDS	\$6,149.04	\$6,149.04
181223	7/7/2022	130	20220709	LAURIE BRENNER	PER APPROVED AGREEMENT	\$5,000.00	\$5,000.00

Page 69 of 92 Page 1 of 6

Check No. 181241	Date 7/14/2022	Dept 130	Invoice No. 16328368	Vendor APPLEONE EMPLOYMENT SVCS	Description TEMP LABOR-DZOAN.T , WK END 06/04/22	Invoice Amt \$1,377.28	Check Am \$4,573.01
	7/14/2022	130	16337457		TEMP LABOR-DZOAN.T , WK END 06/11/22	\$1,495.65	
	7/14/2022	130	16342549		TEMP LABOR-DZOAN.T , WK END 06/18/22	\$1,700.08	
181269	7/14/2022	110	3000123754	OLIN CORPORATION	4800.2 GALS SODIUM HYPOCHLORITE	\$3,742.62	\$3,742.62
181221	7/7/2022		B05ZR2	BENEFIT COORDINATORS CORP	DELTA DENTAL AND VSP STMT - JUL 2022	\$3,657.20	\$3,657.20
181283	7/14/2022		9909313537	VERIZON WIRELESS	WIRELESS SERV 5/21/22-06/20/22	\$433.61	\$3,586.59
	7/14/2022		9909313538		WIRELESS SERV 5/21/22-06/20/22	\$3,096.59	
	7/14/2022		9910029364		WIRELESS SERV 06/02/22-07/01/22	\$56.39	
181274	7/14/2022	120	916004976805	REPUBLIC SERVICES #916	RECYCLE & ROLL OFF - JUL 2022	\$3,446.90	\$3,446.90
181268	7/14/2022	141	2022061278	NBS	SEWER SERVICE CHARGE DATA SERV APR - JUL - SEP 2022	\$3,437.33	\$3,437.33
181220	7/7/2022	122	26154	BAYSCAPE LANDSCAPE MANAGEMENT	LANDSCAPE MAINTENANCE SERVICES - JUN 2022	\$3,310.00	\$3,310.00
181247	7/14/2022	173	Z708389	CDW GOVERNMENT LLC	MONITORING SYSTEM RENEWAL	\$3,301.78	\$3,301.78
181265	7/14/2022	170	11462	MILTON S. FRANK CO. INC	2 CASING ASSEMBLY 2 ELBOW	\$3,295.85	\$3,295.85

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
181263	7/14/2022	136	80004381	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	\$908.82	\$3,136.53
	7/14/2022	170	81219451		ASTD PARTS & MATERIALS	\$333.15	
	7/14/2022	136	80992849		ASTD PARTS & MATERIALS	\$867.08	
	7/14/2022	170	81134813		ASTD PARTS & MATERIALS	\$80.25	
	7/14/2022	170	80825491		ASTD PARTS & MATERIALS	\$107.97	
	7/14/2022	121	81067749		ASTD PARTS & MATERIALS	\$712.93	
	7/14/2022	170	80389083		ASTD PARTS & MATERIALS	\$54.47	
	7/14/2022	170	81229159		ASTD PARTS & MATERIALS	\$71.86	
181277	7/14/2022	110	22061320	S&S TRUCKING	GRIT HAULING 06/10/2022	\$835.55	\$2,724.36
	7/14/2022	110	22062224		GRIT HAULING 06/15 & 06/17/2022	\$1,888.81	
181238	7/14/2022	111	9127026597	AIRGAS NCN	3 SAFETY HARNESSES	\$1,188.13	\$2,425.04
	7/14/2022	170	9127031435		4 CY ARGON	\$1,236.91	
181279	7/14/2022		735749876201	STAPLES CONTRACT & COMMERCIAL	JANITORIAL & BREAKROOM SUPPLIES	\$202.61	\$2,402.91
	7/14/2022		735916842901		JANITORIAL & BREAKROOM SUPPLIES	\$1,039.41	
	7/14/2022		735789402801		JANITORIAL & BREAKROOM SUPPLIES	\$1,022.31	
	7/14/2022		735945489901		JANITORIAL & BREAKROOM SUPPLIES	\$28.76	
	7/14/2022		735945489902		JANITORIAL & BREAKROOM SUPPLIES	\$109.82	
181280	7/14/2022	144	20543675	TELEDYNE ISCO INC	SAMPLING SUPPLIES	\$2,178.45	\$2,178.45
181258	7/14/2022	110	2400979722	KELLY SERVICES INC	TEMP LABOR-JANES, O. WK ENDING 06/19/22	\$1,732.50	\$1,732.50

Page 71 of 92 Page 3 of 6

Check No. 181251	Date 7/14/2022	Dept	Invoice No.	Vendor ENERGY CHOICE INC	Description ASTD COGEN PARTS	Invoice Amt \$1,708.78	Check Am \$1,708.78
181262	7/14/2022	113	2206A53	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$1,700.00	\$1,700.00
181266	7/14/2022	170	962553092	MSA SAFETY SALES	2 SENSOR	\$1,586.94	\$1,586.94
181257	7/14/2022	170	31200	JPR SYSTEMS INC	SERVICE: FLEXIM FLOW METER START UP	\$1,524.00	\$1,524.00
181254	7/14/2022	111	13105317	HACH COMPANY	2 POCKET COLORIMETERS	\$1,427.73	\$1,427.73
181218	7/7/2022		1972218	ALLIANT INSURANCE SERVICES INC	07/22-07/23 CRIME RENEWAL	\$1,329.00	\$1,329.00
181229	7/7/2022	123	2250405	GRANITE CONSTRUCTION COMPANY	10.14 TONS 1/2" HMA-64-10R15 E	\$1,095.09	\$1,095.09
181275	7/14/2022		33777	RESCUE ROOTER	REFUND # 47638	\$1,000.00	\$1,000.00
181219	7/7/2022		5355880701	AT&T	SERV: 05/11/22 - 06/10/22	\$872.58	\$872.58
181284	7/14/2022	113	8808859490	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$861.79	\$861.79
181242	7/14/2022	173	523083	AVERTIUM LLC	VULNERABILITY SCAN SUBSCRIPTION - JUN 2022	\$845.00	\$845.00
181271	7/14/2022		29610992	PAN PACIFIC SUPPLY COMPANY	2 CHESTERTON SEALS	\$835.27	\$835.27
181261	7/14/2022	170	476320	LUBRICATION ENGINEERS INC	OIL CONSOLIDATION HARDWARE KITS	\$801.80	\$801.80
181264	7/14/2022	144	20220627	JOSEPH MENDOZA	EXP REIMB: TEAM RECOGNITION	\$793.87	\$793.87
181256	7/14/2022	170	768520220527	HOME DEPOT CREDIT SERVICES	MONTHLY HARDWARE STMT - MAY 2022	\$160.29	\$763.61
	7/14/2022	170	768520220427		MONTHLY HARDWARE STMT - APR 2022	\$100.20	
	7/14/2022	170	768520220627		MONTHLY HARDWARE STMT - JUN 2022	\$503.12	

UNION SANITARY DISTRICT CHECK REGISTER 07/02/2022-07/15/2022

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
181272	7/14/2022	144	280993	PRESTIGE LENS LAB	SAFETY GLASSES - PINO	\$280.19	\$755.18
	7/14/2022	132	281011		SAFETY GLASSES - TERRAZAS	\$208.70	
	7/14/2022	141	280964		SAFETY GLASSES - LEDOAN	\$266.29	
181232	7/7/2022	132	20220630.1	MEGAN HICKS	EXP REIMB: ASP EXAM	\$350.00	\$700.00
	7/7/2022	132	20220630		EXP REIMB: CSP EXAM	\$350.00	
181225	7/7/2022	132	220714687	CLAREMONT BEHAVIORAL SERVICES	JUL 2022 EAP PREMIUMS	\$648.60	\$648.60
181248	7/14/2022		1548989	COGENT SOLUTIONS & SUPPLIES	5 CS COMPOSTABLE UTENSILS	\$610.87	\$610.87
181285	7/14/2022		34793	NIRBHAI WAHGA	REFUND # 47643	\$500.00	\$500.00
181234	7/7/2022	170	387661	KLEEN BLAST ABRASIVES	BLASTING MATERIALS	\$415.32	\$415.32
181233	7/7/2022	113	2301307122	KELLY SERVICES INC	TEMP LABOR-JANES, O. WK ENDING 06/12/22	\$346.50	\$346.50
181230	7/7/2022	110	20220630	TIMOTHY GRILLO	EXP REIMB: TEAM SAFETY RECOGNITION	\$336.63	\$336.63
181236	7/7/2022	110	20220628	WEF-WATER ENVIRONMENT FED	WEF MEMBERSHIP M COSTELLO	\$267.00	\$267.00
181249	7/14/2022		33780	CS CONCRETE INC	REFUND # 47644	\$265.00	\$265.00
181273	7/14/2022	111	8201120706	RED WING BUS ADVANTAGE ACCT	SAFETY SHOES: W. COGGINS	\$224.90	\$224.90
181222	7/7/2022	130	17195000	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$219.40	\$219.40
181250	7/14/2022	123	20220712	ART DIOSDADO	EXP REIMB: CWEA MEMBERSHIP & GRADE 3 EXAM	\$210.00	\$210.00
181281	7/14/2022		20220711	KAROLINE TERRAZAS	EXP REIMB: SUPPLIES FOR PPE PROJECT	\$83.01	\$197.25
	7/14/2022	132	20220713		EXP REIMB: QUARTERLY TEAM RECOGNITION	\$114.24	
181245	7/14/2022	120	20220713	ISAIAH CAETANO	EXP REIMB: CWEA MEMBERSHIP FEES	\$192.00	\$192.00

Page 73 of 92 Page 5 of 6

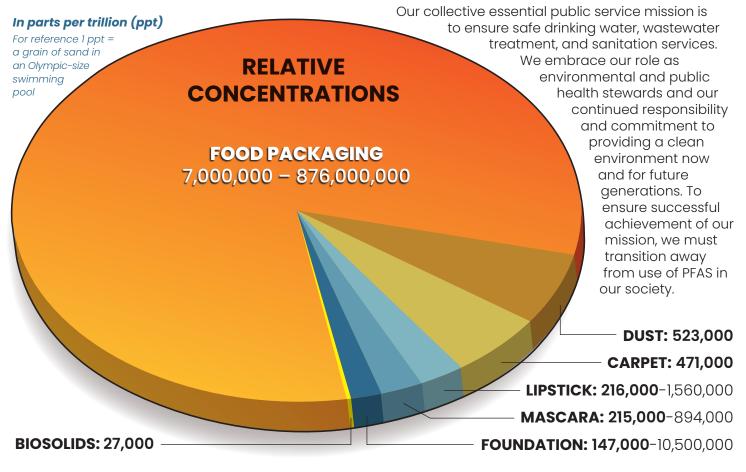
UNION SANITARY DISTRICT CHECK REGISTER 07/02/2022-07/15/2022

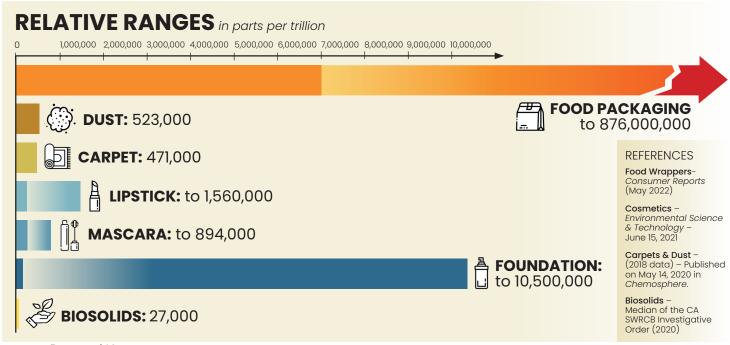
Check No.	Date	Dept	Invoice No.	Vendor	Description		Invoice Amt	Check Am
181235	7/7/2022	171	20220629	RANDY SCHWARTZ	RETIREMENT GIFT - 12 YEARS OF SERVICE		\$180.00	\$180.00
181252	7/14/2022	136	20220606	GFOA-GOV FIN OFFICERS ASSOC	MEMBERSHIP RENEWAL - V HOLSLAG		\$150.00	\$150.00
181226	7/7/2022	113	20220617	CWEA	MEMBERSHIP RENEWAL -	- A. HERNANDEZ	\$106.00	\$106.00
181286	7/14/2022	121	2743398001	WHCI PLUMBING SUPPLY CO	ASTD PARTS & MATERIALS		\$47.80	\$100.65
	7/14/2022	122	2741236002		ASTD PARTS & MATERIALS		\$52.85	
181278	7/14/2022	170	85340220220622	SAN FRANCISCO WATER DEPT	SERVICE 05/19/22 - 06/20/22		\$87.41	\$87.41
181276	7/14/2022	171	20220711	LOUIS RIVERA III	EXP REIMB: MILEAGE FOR CALL OUT		\$84.65	\$84.65
181239	7/14/2022	170	4088644120220622	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 06/21/22 - BOYCE ROAD		\$80.47	\$80.47
181244	7/14/2022	120	17157702	BLAISDELL'S	ASTD OFFICE SUPPLIES		\$33.21	\$77.13
	7/14/2022	144	17213290		ASTD OFFICE SUPPLIES		\$43.92	
181253	7/14/2022	132	20220711	ALISA GORDON	REIMB LIVESCAN PRE-EMPLOYMENT		\$43.00	\$43.00
Invoices:	Invoices: Checks:					Checks:		
Credit Memos :			0					
\$0 - \$1,000 :			54	18,375.15		\$0 - \$1,000 :	32	13,571.88
\$1,000 - \$10,000 :			33	113,563.90		\$1,000 - \$10,000 :	27	96,003.83
\$10,000 - \$100,000 :			9	209,525.86		\$10,000 - \$100,000 :	10	231,889.20
Over \$100,000 :			0			Over \$100,000 :		
Total:			96	341,464.91		Total:	69	341,464.91

Page 74 of 92 Page 6 of 6

PFAS BY THE NUMBERS

Per and polyfluoroalkyl substances (PFAS) are a group of manmade fluorinated compounds that have been in commercial use since the 1940's and are abundant in today's society. These chemicals are widely used for their resistance to heat, water, and oil. PFAS are found in every American household, and in products as shown in the pie chart with typical concentrations. Entities providing essential public services such as safe drinking water, wastewater treatment, water recycling, biosolids recycling, and municipal solid waste management are not "users" or "producers" of PFAS but receive them as a function of their prevalent use in society.





What Are PFAS?

Per and polyfluoroalkyl substances (PFAS)¹ are a group of manmade fluorinated compounds which are used for a variety of applications by both industry and residential households. These chemicals are widely used because they are resistant to heat, water, and oil. PFAS are commonly found in every American household, and in products as diverse as:



PFAS have been in commercial use since the 1940's and are abundant in today's society. Two of the most common types (PFOS and PFOA) were phased out of production in the United States in 2002 and 2015 respectively, but are still present in some imported products. PFOA and PFOS are found in every person's blood stream in the parts per billion range, though those concentrations have decreased by 70% for PFOA and 84% for PFOS between 1999 and 2014, which coincides with the end of the production and phase out of PFOA and PFOS in the United States.²

PFAS Are Ubiquitous in Our Homes and Our Environment

Several recent legislative and regulatory efforts across the US to address PFAS have focused on limiting levels in drinking water. However, there has been relatively little conversation about the presence of these chemicals in our everyday lives. In several studies, the mean and median concentration of PFOA in household dust in the United States was found to be between roughly 10,000 and 50,000 parts per trillion (ppt)³. This means there is significantly more PFAS in the ambient dust in the average home than the levels currently being discussed as thresholds for drinking water. Not only are PFAS part of the air we breathe and the products we use, but they have also been found in the food we eat. In other words, there are numerous human exposure pathways for PFAS beypage water.

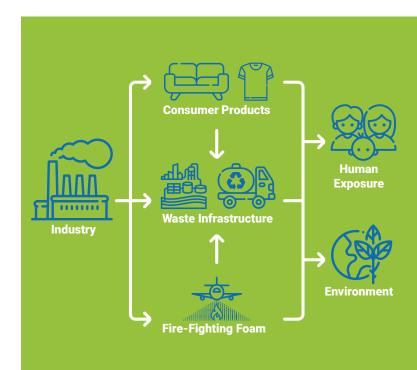
Importance of Human Health Protection

Agencies providing essential public services such as safe drinking water, wastewater treatment, water recycling, and biosolids recycling firmly believe in our **collective mission to ensure safe drinking water and sanitation services.** We also acknowledge and embrace our role as environmental and public health stewards and the responsibility of providing a healthy and clean environment now and for future generations. To that end, agencies would be in support of actions and regulations intended to ensure delivery of those services as long as they are based on credible science and developed after due deliberation. There is concern that in the case of PFAS, notification levels, thresholds, and in some cases limits are being developed in advance of the scientific and public process.

PFAS Producers and Heavy Users Are Not the Same as PFAS "Receivers"

Drinking water treatment systems and wastewater treatment facilities are not "producers" or users of PFAS, and none of these essential public service providers utilize PFAS chemicals. Rather, they are "receivers" of these chemicals used by manufacturers and consumers, and merely convey or manage the traces of PFAS that we encounter in our daily lives.

In order to address the true sources of these chemicals, discontinuation of production and use (both domestic and foreign) is necessary at manufacturing facilities and heavy use areas such as firefighting training sites. As long as PFAS are elements of products used in our everyday lives, and as long as background levels resulting from decades of manufacturing and use persist, they will continue to be found in the "receiver" streams.



Placing PFAS in Context: Distinguishing Contaminated Sites and Background Levels

Recent legislative and regulatory efforts to address PFAS have tended to not differentiate between concentrations at producer and heavy user contaminated sites and common background levels in drinking water, groundwater, recycled water, wastewater, or biosolids. The levels of PFAS found in these two scenarios are dramatically different. Sites found near manufacturers of PFAS can have levels of contamination at 100,000 to 500,000 ppt. At firefighting training sites, including military complexes, levels can be as high as 6,950,000 ppt.⁴ In these circumstances, it is clear that the producers and heavy users of PFAS have caused or contributed to the contamination of sites that need to be addressed. In contrast, the action levels currently being discussed for drinking water systems range from 5–40 ppt, an exceptionally small fraction of the concentrations found at highly contaminated sites.

Because of this vast disparity in relative contributions, product manufacturer responsibility and stewardship, as well as cleanup and remediation at highly contaminated sites, are the most efficient and effective methods of addressing these chemicals and protecting human health and the environment.

Drinking Water Thresholds and Unintended Consequences

The USEPA has set an advisory level of 70 ppt individually or combined for PFOA and PFOS in drinking water and is currently evaluating the need to develop maximum contaminant levels (MCL) for these and possibly other PFAS compounds. For perspective, one part per trillion is the equivalent of four grains of sugar in an Olympic sized swimming pool, or the equivalent of one second in 32,000 years. Even as EPA's work continues, states have begun setting their own PFAS standards for drinking water at a rapid pace and without following some of the usual regulatory and scientific review and public involvement procedures.

The public and political concern about PFAS is leading several states to move forward with regulatory standards or notification levels while the science is still developing. For example, the California State Water Board has established notification levels of 6.5 ppt for PFOS and 5.1 ppt for PFOA in drinking water, while other states have adhered to the USEPA health advisory level of 70 ppt for both combined. States adopting different standards for the same compounds can create confusion and risks undermining public confidence at a time when greater consistency is needed. In fact, stringent state requirements could have significant unintended impacts on public municipalities and individuals, as numerous public systems could be deemed unusable and/or need to install expensive additional treatment systems.

- 1. PFAS is the broader class of chemicals that includes PFOA, PFOS, and many others.
- Centers for Disease Control and Prevention. Fourth Report on Human Exposure to Environmental Chemicals, Updated Tables, (January 2019). Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. cdc.gov/exposurereport
- 3. Trudel et al., Risk Analysis Vol. 28 No. 2, 2008
- 4. ewg.org/Pragec7i7eof19/2s/2019_pfas_contamination/map

Background Levels of PFAS in Wastewater Effluent, Recycled Water and Biosolids

Strict PFAS standards for drinking water could also ultimately impact discharge limits on wastewater treatment plants, recycled water, and biosolids. Because PFAS are ubiquitous in households, consumer products, food, and the environment generally, they will typically make their way into the wastewater stream. After treatment, trace amounts of PFAS may also be found in biosolids. Of course, PFAS are also found in:

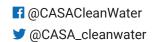


Given the ubiquity of PFAS, and the comparative background levels which may be found in wastewater and biosolids, setting requirements near analytical detection limits on these sources may not provide a discernable benefit to public health.

A Measured, Scientifically Sound Response to PFAS Contamination is Needed

Legislators, regulators, drinking water agencies, wastewater agencies, and others should work collaboratively to examine how to deal with PFAS holistically, with science guiding the decision making. We acknowledge and embrace our role as public health and environmental stewards to ensure safe drinking water and sanitation services. However, we know that science is still evolving to understand the fate, exposure, and toxicity of PFAS from environmental media, and the basic analytical methods needed to study these chemicals are still in development for media other than drinking water. Even the extent of human health impacts is not fully understood. This underscores the need to better understand the science and real world risk before setting exceedingly stringent thresholds or limits.

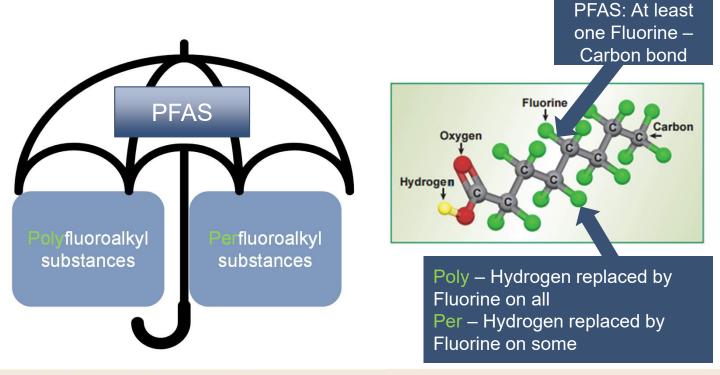
The goal should be to determine the most effective steps needed to reduce human exposure and implement them within the broad context of protecting human health. This requires differentiating high concentration sites from background concentrations and taking action to mitigate concentrations at high use sites. It also demands both a reassessment of products we produce and use daily, and a realistic assessment of how much any action is able to control PFAS already in the background environment. The most significant action we need to take today is to remove these chemicals of concern from the stream of commerce. Source reduction and pollution prevention can serve as the most efficient means of addressing persistent background presence of PFAS and effectively limit the occurrence of PFAS going forward.



CASAweb.org

The (Expanding) World of PFAS Compounds

Over 4,000+ compounds



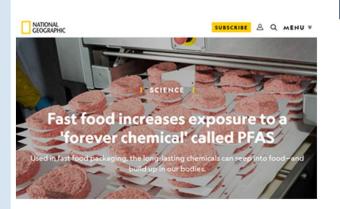
C-F bond is one of the strongest known covalent bonds, and the multiple C-F bonds in PFASs provide their chemical and thermal stability

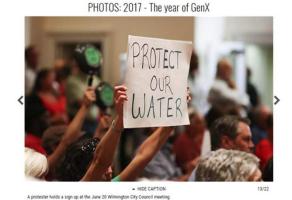
PFAS Is Everywhere

Commercial and Consumer Products Containing PFAS:

- · paper and packaging
- clothing and carpets
- outdoor textiles and sporting equipment
- ski and snowboard waxes
- non-stick cookware
- cleaning agents and fabric softeners
- · polishes and waxes, and latex paints
- pesticides and herbicides
- hydraulic fluids
- windshield wipers
- paints, varnishes, dyes, and inks
- adhesives
- medical products
- personal care products (for example, shampoo, hair conditioners, sunscreen, cosmetics, toothpaste, dental floss)



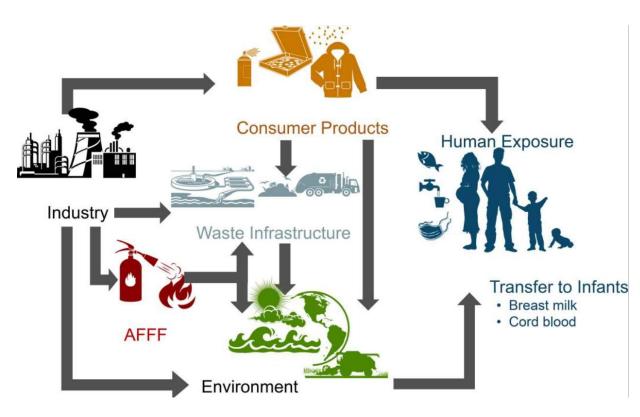




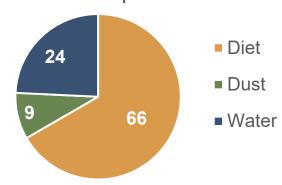




PFAS Exposure Points

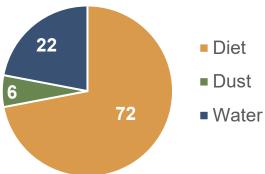


PFOA Exposure Routes



Data from: Environmental science & technology 2011; 45: 8006–8014.

PFOS Exposure Routes

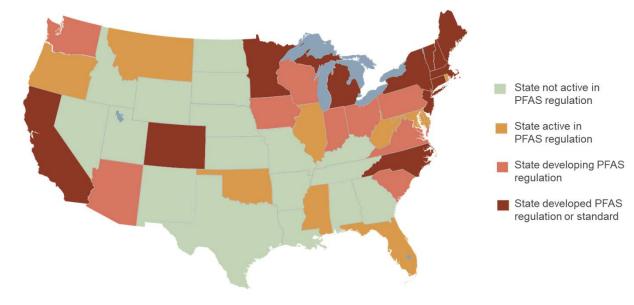


https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6380916/

Data from: Journal of exposure science & environmental epidemiology 2011; 21: 150–168

PFAS Regulatory Takeaways

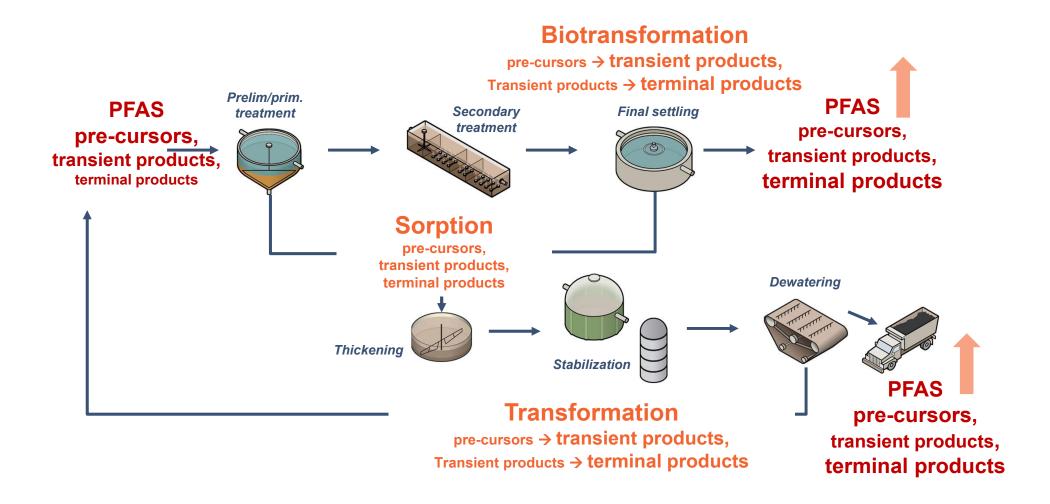
Pressure to "do something"



- States are taking action
 - Long-term consequences (e.g., biosolids moratoriums, NPDES permit issues, etc.)
 - Maine first state to ban land application
- Stronger push for greater industrial / military accountability

NGOs and citizens have demonstrated PFAS activism

General Behavior of PFAS at WRRFs



ELSEVIER

Contents lists available at ScienceDirect

Water Research







Per- and Polyfluorinated Alkyl Substances (PFAS) cycling within Michigan: Contaminated sites, landfills and wastewater treatment plants

Ross W. Helmer a,b, Donald M. Reeves a,*, Daniel P. Cassidy a

highest for active landfills, which generate greater leachate volumes and contain fresh PFAS wastes. Detailed study of 10 WWTPs with industrial pretreatment programs indicate numerous chemical transformations across the plants that yield effluent PFAS concentrations as much as 19 times greater than influent, attributed to transformations of unmeasured precursors in the influent to measured, stable PFAS in the effluent. PFOA, PFHxA, perfluoropentanoic acid (PFPeA), PFBA, and PFBS show the greatest increases across the plant ranging from 20% to nearly 2,000%. PFOS concentrations decreased across 6 WWTPs, consistent with a strong tendency to adsorb onto biosolids. Estimated mass of discharge of (mostly unregulated) PFAS from WWTPs to receiving waters range from 40 g/yr to 128 kg/yr.

a Department of Geological and Environmental Sciences, Western Michigan University, 1903W. Michigan Ave, Kalamazoo, MI, 49008-5241, USA

b Water Resources Division, Michigan Department of Environment, Great Lakes, and Energy, 525W. Allegan St, Lansing, MI, 48933, USA

General Behavior of PFAS at WRRFs

- WRRFs are not producers of PFAS
- Transformation of pre-cursors makes it appears that PFAS are "generated" at WRRFs
- Reality is that many pre-cursors not detected in current screening methods
- Caution when performing mass balances
- Total Oxidizable Precursors (TOP) is a better indication of PFAS compared to targeted compounds

https://www.independentnews.com/news/dublin_news/attorney-for-school-district-says-no-to-brown-act-violation/article_d9f4a16a-02a7-11ed-81fb-8fa9b0bc1f1a.html

TOP STORY

Attorney for School District Says No to Brown Act Violation

Jul 13, 2022



DUBLIN – School district trustees on Tuesday accepted a Dublin Unified School District (DUSD) attorney's opinion that three of the board's trustees did not violate the Brown Act when each separately exchanged texts with a Dublin resident in the weeks leading up to a controversial boundaries map election. However, trustees agreed to discuss the board's ethics and governance policies at a future meeting.

"If we accept this legal opinion and move forward, are we condoning this? Are we saying it's OK and acceptable?" Trustee Megan Rouse asked. "My answer to that is 'no'."

None of the DUSD Trustees responded to public comments calling for an independent investigation to determine whether Trustees Dan Cherrier, Gabi Blackman and William Kuo violated California public meeting rules during the recent election area remapping process.

The board's 3-2 Feb. 22 redistricting vote to balance population growth and create minority voting blocs resulted in shifting board Vice President Kristin Pelham's home address out of Area 1, which she represents, into Area 2. That meant she and Area 2 Trustee Rouse would have to face each other in November for the same seat, bumping one of them off the panel. Kuo, Cherrier and Blackman voted to approve the map over another that would have kept Rouse and Pelham in separate areas.

According to the County Board of Education regulations, election boundary remapping is designed to reflect demographic changes determined in the most recent Census, and government officials are required to make decisions that provide representation for Latino and other minority groups, as well as balance populations, without considering whether new boundaries will affect any particular politician.

The decision irked some teachers and residents and added to an "east versus west" divisiveness within the district. Rouse and Pelham represent areas on the west side, while Blackman and Cherrier represent the east side, which has a large Latino population. Kuo's area sits in the middle.

Shortly after the redistricting vote on Feb. 22, DUSD employee and parent Mary Garvey Washington wondered if there was something off about the vote and filed a California Public Records Act request for emails and text linked to Kuo, Cherrier and Blackman. She posted the results on Facebook in late June, igniting a firestorm of complaints that the trustees in her opinion had violated public meeting rules by discussing their vote behind the scenes.

Some of the documents showed resident Bill Carey had exchanged emails and text messages separately with Kuo, Blackman and Cherrier. In them, Carey discussed with each of them the various mapping options. He encouraged them separately to choose the map they ultimately selected with Rouse and Pelham dissenting.

Numerous residents and teachers accused the trustees of violating the Brown Act, which prohibits elected officials from establishing a quorum outside of the public eye when discussing an issue. Some speakers also accused the three trustees of conducting a "serial meeting," another Brown Act violation that occurs when one elected official conveys a vote to another official through an intermediary.

Some residents called for the trustees to resign. Cherrier requested Tuesday night's special meeting and asked the district's counsel to review whether any violations occurred.

Attorney Harold Freiman said three reviews of the documents found no evidence that the three board members directly discussed with each other redistricting in text messages or conveyed their voting plans through Carey to the other board members.

Freiman's finding was released on Friday in the board's agenda packet.

In an emailed response to The Independent, Cherrier said Freiman's finding was "no surprise."

"As I have been saying all along, I know there was no Brown Act violation, as what is being accused would take three Trustees and I know I was not a part of any meeting," Cherrier said.

Kuo, also in an email to The Independent, said he knew he had done nothing wrong, but indicated that although he was vindicated, he believed his reputation had been damaged.

"I knew from my interactions that there was no serial meeting taking place, nor violations of the Brown Act with 3-way texting or emailing," Kuo said. "However I feel conclusions are already drawn up about this matter and no amount of discussions will change minds. I have a clear conscience and will continue to serve out my term."

During Tuesday's meeting, several teachers and residents criticized the decision and demanded an outside investigator be appointed to examine the documents. The board members never addressed those requests when it came their turn to speak. Cherrier, however, said he was dismayed that so many of the district's teachers made up allegations against him and his colleagues.

"What kind of example are you setting when you blindly throw out accusations when you've not researched the law or not personally, fully read the Brown Act," Cherrier said.

Cherrier said he had decided not to run for re-election, but had changed his mind.

"I'm very worried that quality candidates may not come forward," he said. "So I'm announcing my candidacy for the upcoming Area 5 elections. Those who seek to divide this town and boards further, have only succeeded in convincing me our job is not done here."

Rouse said she accepted Freiman's legal conclusion, but she said the information in the texts posted online were "not acceptable."

"This incident demonstrates that we're in danger of fractionalization, which is happening all too much in our society and perhaps on this board, and we have to resist that," she said.

Rouse also requested that the board discuss a policy on board member's use of their phones during meetings. Some of Blackman's texts indicated she was communicating with the public during meetings from the dais.

Freiman noted Blackman had not committed a Brown Act violation, but the issue has not been examined by the courts. He said some local agencies have adopted policies limiting elected officials' electronic exchanges with the public during meetings.

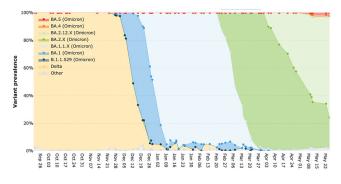
Pelham, who said it was obvious in the texts that people worked behind the scenes to oust her from the board, said the panel had to rebuild trust with the community if it expected to pass bond measures or anything else in the future.

"You have now alienated half the city," Pelham said. "Half the voters in this city live on the west side. And they have specifically had their representation limited."



Scientists develop tools for early detection of SARS-CoV-2 variants in wastewater

7 July 2022



Researchers devised a new way of analyzing wastewater to monitor the prevalence of different SARS-CoV-2 variants over time (shown here for San Diego, from September 2021 to May 2022). Credit: SEARCH alliance

It can be a bit smellier than other ways of monitoring COVID-19, but analyzing wastewater is a cheaper, faster and more accurate way for public health officials and researchers to detect rising cases. Bits and pieces of the SARS-CoV-2 virus are flushed down toilets and washed down sinks by infected individuals; more copies of the virus found in sewage means more people are sick. But until now, most wastewater analysis methods lumped all SARS-CoV-2 viruses together as one.

Now, scientists at Scripps Research and University of California, San Diego, in collaboration with the San Diego Epidemiology and Research for COVID Health (SEARCH) alliance, have changed that. The team has reported that with just two teaspoons of raw sewage, they can accurately determine the genetic mixture of SARS-CoV-2 variants present within a population and identify new variants of concern up to 14 days before traditional clinical testing. In San Diego wastewater, the group detected the Omicron variant 11 days before it was first reported clinically.

Their algorithm, named "Freyja", for identifying SARS-CoV-2 variants in wastewater, described today in *Nature*, has quickly been adapted by many public health labs, and is a boon to surveillance efforts that aim to detect new variants of SARS-CoV-2.

"In a lot of places, standard clinical surveillance for new variants of concern is not only slow but extremely cost-prohibitive," says Kristian Andersen, Ph.D., professor of Immunology and Microbiology at Scripps Research and a senior author of the new work. "But with this new tool, you can take one wastewater sample and basically profile the whole city."

The project required a tight collaboration between hospitals, state and local governments, sequencing facilities, and academic scientists-including researchers in the Andersen lab and that of UC San Diego microbiologist Rob Knight, Ph.D. The Knight lab deployed 131 wastewater autosamplers to collect wastewater from 343 buildings on the UCSD campus and 17 public schools across 4 San Diego school districts, and acquired samples from large wastewater treatment facilities in the county. Over the course of nearly a year, the group analyzed more than 20,000 wastewater samples. In the process, they developed improved methods for concentrating viral RNA in wastewater, which are now being widely used by public health labs across the country and world. Then, the Andersen lab took on the challenge of quantifying viral variants from the sequencing data.

"It's challenging to take all these tiny pieces of virus floating around in wastewater and figure out which ones are from different variants and what their relative abundance is," says Scripps Research postdoctoral fellow Joshua Levy, Ph.D., a co-first author of the new paper with Smruthi Karthikeyan of UC San Diego.

Many variants of SARS-CoV-2, including Omicron

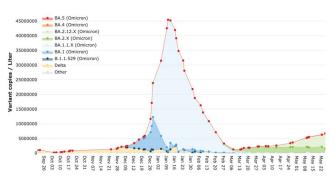
Page 90 of 92



and Delta, differ by a small number of mutations. But since these changes can impact how the virus spreads or infects people, public health officials must carefully track them. They have typically done that the Omicron variant could be detected at the this by sequencing virus genomes from patients, which is a slow and costly process and has become abundance of just over one percent of all SARSless effective at capturing the extent and diversity of COVID-19 variants as many people turn to athome testing.

Levy developed a library of "barcodes" that identify SARS-CoV-2 variants based on short snippets of coded a new computational tool that sifts through the mass of genetic information in wastewater to find these barcodes. He made the new Freyja program easy to use and free.

"If you're in a lab that can already sequence a wastewater sample, you're good to go-you just runlocalities to use these tools," adds Knight. "We're this code and in another 20 seconds you're done," he says.



Using wastewater virus concentration measurements and genome sequencing, researchers tracked the rapid spread of SARS-CoV-2 during the Omicron wave of the pandemic. Credit: SEARCH alliance

When the researchers applied Freyja to their wastewater samples and compared the results to clinical data collected from around San Diego by SEARCH, they discovered that the tool detected variants of concern, including Alpha, Delta, and Omicron, in wastewater up to 14 days before it was reported clinically. The Mu (B.1.621) variant was detected in UC San Diego wastewater on July 27,

2021— four weeks before its first clinical detection on campus. And, using more recent data not included in the original study period, the team also reported Point Loma wastewater treatment plant—at an CoV-2 viruses in a contributing population of over two million people— on November 27, 2021, 11 days before its clinical detection in the city.

"Wastewater contains a massive amount of very valuable information about our health, including their RNA that are unique to each variant. Then, he these viral genomes that can let us track the course of a pandemic or epidemic," says Karthikeyan.

> "It took a lot of collaboration between public health and academic players to get this system established in San Diego, and now that we've shown its effectiveness, we hope it inspires other also very excited about expanding them to pathogens beyond SARS-CoV-2."

The researchers say they are continuing to improve upon the set of tools they use to analyze viruses in wastewater, but that the current suite of methods is already a leap forward from previous approaches. The same strategies could be used to not only track variants of SARS-CoV-2 but other human pathogens.

"When you rely on clinical sampling, you not only introduce a lot of socioeconomic and geographic bias into who is contributing to genomic surveillance data, but you also have the problem of asymptomatic people not getting tested and those who only use home tests not contributing to the pool of data," says Levy. "But with wastewater, we don't have those blind spots."

In addition to Levy, Karthikeyan, Andersen and Knight, authors of the study, "Wastewater sequencing uncovers early, cryptic SARS-CoV-2 variant transmission," include Christine Aceves, Catelyn Anderson, Karthik Gangavarapu, Emory Hufbauer, Ezra Kurzban, Justin Lee, Nathaniel Matteson, Edyth Parker, Sarah Perkins, Karthik Ramesh, Refugio Robles-Sikisaka, Madison Schwab, Emily Spencer, Shirlee Wohl, Laura Nicholson, and Mark Zeller of Scripps Research, as



well as collaborators at UC San Diego, Rady Children's Institute for Genomic Medicine, Scripps Health, Sharp Healthcare, Helix, the County of San Diego Health and Human Services Agency, the California Department of Public Health, and the Centers for Disease Control and Prevention.

More information: Rob Knight, Wastewater sequencing reveals early cryptic SARS-CoV-2 variant transmission, *Nature* (2022). DOI: 10.1038/s41586-022-05049-6. www.nature.com/articles/s41586-022-05049-6

Provided by The Scripps Research Institute
APA citation: Scientists develop tools for early detection of SARS-CoV-2 variants in wastewater (2022, July 7) retrieved 11 July 2022 from https://phys.org/news/2022-07-scientists-tools-early-sars-cov-variants.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.