



101 Lucas Valley Road, Suite 300
 San Rafael, CA 94903
 Tel.: 415-472-1734
 Fax: 415-499-7715
 www.LGVSD.org

MANAGEMENT TEAM
 General Manager, Curtis Paxton
 Plant Operations, Mel Liebmann
 Collections/Safety/Maintenance, Greg Pease
 Engineering, Michael P. Cortez
 Administrative Services, Dale McDonald

DISTRICT BOARD
 Megan Clark
 Craig K. Murray
 Barry Nitzberg
 Gary E. Robards
 Crystal J. Yezman

The Mission of the Las Gallinas Valley Sanitary District is to protect public health and our environment, providing effective wastewater collection, treatment, and resource recovery.

BOARD MEETING AGENDA

May 16, 2024

MATERIALS RELATED TO ITEMS ON THIS AGENDA ARE AVAILABLE FOR PUBLIC INSPECTION DURING NORMAL BUSINESS HOURS AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300, SAN RAFAEL, OR ON THE DISTRICT WEBSITE WWW.LGVSD.ORG

Estimated Time

OPEN SESSION:

- 4:00 pm 1. PUBLIC COMMENT**
 This portion of the meeting is reserved for persons desiring to address the Board on matters not on the agenda and within the jurisdiction of the Las Gallinas Valley Sanitary District. Presentations are generally limited to three minutes. All matters requiring a response will be referred to staff for reply in writing and/or placed on a future meeting agenda. Please contact the General Manager before the meeting.

CLOSED SESSION:

- 4:05 pm 2. CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTION 54956.8 CONFERENCE WITH REAL PROPERTY NEGOTIATOR –** Two items: 1) First Property: McPhail Site (APNs 180-151-18, 180-161-10, and 180-161-09) McPhail: Approximately 9.76 acres of land (APNs 180-151-18, 180-161-10, & 180-161-09), located at 1565 Vendola Drive, San Rafael, in the County of Marin (unincorporated), that served as the location of the former McPhail Elementary School, which consists of vacant land and secured structures ("McPhail Site"). Agency negotiator: Curtis Paxton, General Manager. Negotiating parties: San Rafael City Elementary School District. Under negotiation: Instruction to negotiator will concern both price and terms of payment.
- 2) Second Property: Old Gallinas Site (APN 180-123-01) : Approximately 7.9 acres of developed land (APN 180-123-01), located at 251 N. San Pedro Road, San Rafael, in the County of Marin (unincorporated), consisting of classroom buildings and athletic field ("Old Gallinas Site"). Agency negotiator: Curtis Paxton, General Manager. Negotiating parties: San Rafael City Elementary School District. Under negotiation: Instruction to negotiator will concern both price and terms of payment.

- 4:35 pm 3. CONSENT CALENDAR**
 These items are considered routine and will be enacted, approved or adopted by one motion unless a request for removal for discussion or explanation is received from the staff or the Board.

- A. Approve the Board Minutes for May 2 and May 6, 2024
- B. Received and Ratify the Check Warrant List
- C. Approve Board Compensation for April 2023
- D. Approve Budget Authorization for Actions to Potentially Eliminate Blending
- E. Approve Award of Design Contract for John Duckett Pump Station Electrical Upgrades and Terra Linda Trunck Sewer Creek Crossing Improvements
- F. Approve Award of Contract for Treatment Plant Standby Generator Upgrade
- G. Approve Audit Engagement Letter
- H. Approve Resolution 2024-2328 Time and Place for Public Hearing on the Budget for the Fiscal Year 2024-2025

Possible expenditure of funds: Yes, Item B through G.

Staff recommendation: Adopt Consent Calendar – Items A through H.

4:45 PM

4. INFORMATION ITEMS:

STAFF/CONSULTANT REPORTS:

- 1. General Manager’s Report – verbal
- 2. Engineering Department Report – written
- 3. Solar Project Update – verbal
- 4. Administrative Services Department Report – written
- 5. Quarterly Treasurer’s & Financial Reports as of March 31, 2024 – written
- 6. Review Preliminary Budget for Fiscal Year 2024-2025 – written

5:45 PM

5. BOARD MEMBER REPORTS:

1. CLARK

- a. NBWA Board Committee, Operations Control Centers Ad Hoc Committee, Fleet Management Ad Hoc Committee, FutureSense Ad Hoc Committee, CASA Workforce Committee, Other Reports

2. MURRAY

- a. Marin LAFCo, Flood Zone 6, Biosolids Ad Hoc Committee, CASA Energy Committee, Development Ad Hoc Committee, San Francisco Bay Trail Ad Hoc Committee, Other Reports

3. NITZBERG

4. ROBARDS

- a. Gallinas Watershed Council/Miller Creek, Engineering Ad Hoc Committee re: STPURWE, McInnis Marsh Ad Hoc Committee, Development Ad Hoc Committee, FutureSense Ad Hoc Committee, Other Reports

5. YEZMAN

- a. Flood Zone 7, CSRMA, Ad Hoc Engineering Committee re: STPURWE, Marin Special Districts, Biosolids Ad Hoc Committee, Other Reports

5:55 PM

6. BOARD REQUESTS:

- A. Board Meeting Attendance Requests – Verbal
- B. Board Agenda Item Requests – Verbal

6:00 PM

7. VARIOUS INDUSTRY RELATED ARTICLES

6:10 PM

8. ADJOURNMENT

FUTURE BOARD MEETINGS JUNE 6 AND JUNE 20, 2024

AGENDA APPROVED:	Craig K. Murray, President	David Byers, Legal Counsel
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CERTIFICATION: I, Teresa Lerch, Board Secretary of the Las Gallinas Valley Sanitary District, hereby declare under penalty of perjury that on or before May 13, 4:00 p.m., I posted the Agenda for the Board Meeting of said Board to be held on May 16, 2024 at the District Office, located at 101 Lucas Valley Road, Suite 300, San Rafael, CA.

DATED: May 9, 2024



Teresa L. Lerch
Board Secretary

The Board of the Las Gallinas Valley Sanitary District meets regularly on the first and third Thursday of each month. The District may also schedule additional special meetings for the purpose of completing unfinished business and/or study session. Regular meetings are held at the District Office, 101 Lucas Valley Road, Suite 300, San Rafael, CA.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the District at (415) 472-1734 at least 24 hours prior to the meeting. Notification prior to the meeting will enable the District to make reasonable accommodation to help ensure accessibility to this meeting.

AGENDA ITEM 1

5/16/2024

PUBLIC COMMENT

This portion of the meeting is reserved for persons desiring to address the Board on matters not on the agenda and within the jurisdiction of the Las Gallinas Valley Sanitary District. Presentations are generally limited to three minutes. All matters requiring a response will be referred to staff for reply in writing and/or placed on a future meeting agenda. Please contact the General Manager before the meeting.

5/16/2024

CLOSED SESSION

- Separate Item to be distributed at Board Meeting
- Separate Item to be distributed prior to Board Meeting
- Verbal Report
- Presentation

Agenda Item 3A
Date May 16, 2024

MEETING MINUTES OF MAY 2, 2024

THE BOARD OF DIRECTORS AND STAFF OF THE LAS GALLINAS VALLEY SANITARY DISTRICT MET IN OPEN SESSION ON MAY 2, 2024 AT 4:00 PM AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300 CONFERENCE ROOM, SAN RAFAEL, CA. 94903.

- BOARD MEMBERS PRESENT:** Megan Clark, Craig K. Murray, Gary Robards and Crystal Yezman.
- BOARD MEMBERS ABSENT:** None.
- STAFF PRESENT:** Curtis Paxton, General Manager; Teresa Lerch, Board Secretary; Dale McDonald, District Treasurer; Mel Liebmann, Plant Manager; Greg Pease, Collections/Safety/Maintenance Manager; Mike Cortez, District Engineer;
- OTHERS PRESENT:** Patrick Richardson, District Counsel; Tim Holmes, Kenwood Energy.
- ANNOUNCEMENT:** President Murray announced that the agenda had been posted as evidenced by the certification on file in accordance with the law.
- 1. PUBLIC COMMENT:** None.

2. APPOINTMENT TO FILL THE VACANCY ON THE BOARD OF DIRECTORS PURSUANT TO GOV CODE SEC. 1780/BOARD POLICY B-90 AND ADMINISTER OATH OF OFFICE

The Board continued deliberations on the Board Director Vacancy.

ACTION:

Board approved (M/S Clark/Robards 4-0-0-0) taking a vote to appoint a candidate to fill the vacant position on the Board.

AYES: Clark, Murray, Robards and Yezman
NOES: None
ABSENT: None
ABSTAIN: None

A vote was taken:

Clark - Nitzberg
Murray - Nitzberg
Robards - Nitzberg
Yezman - Nitzberg

ACTION:

Board approved (M/S Clark/Yezman 4-0-0-0) appointing Barry Nitzberg to fill the vacant position on the Board. Oath to be given at the next Board meeting on May 6, 2024.

AYES: Clark, Murray, Robards and Yezman
NOES: None
ABSENT: None
ABSTAIN: None

3. CONSENT CALENDAR:

These items are considered routine and will be enacted, approved or adopted by one motion unless a request for removal for discussion or explanation is received from the staff or the Board.

- A. Approve the Board Minutes for April 17 and April 18, 2024
- B. Receive and Ratify the Warrant Check Register through May 2, 2024
- C. Approve Murray attending the Residuals and Biosolids Conference June 18-21 in Oklahoma City
- D. Approve Murray attending the CASA Annual Conference July 31-Aug 2 in Monterey
- E. Approve Yezman attending the CASA Annual Conference July 31-Aug 2 in Monterey
- F. Approve Proposing an Election Resolution 2024-2327

Item A was pulled for discussion.

ACTION:

Board approved (M/S Robards/Clark (4-0-0-0) the Consent Calendar items A through F with a clerical correction to the April 17th minutes.

- AYES: Clark, Murray, Robards and Yezman.
NOES: None.
ABSENT: None.
ABSTAIN: None.

4. INFORMATION ITEMS:

STAFF / CONSULTANT REPORTS:

1. General Manager's Report – Paxton reported.
2. Collections/Safety/Maintenance Department – Pease reported. Discussion ensued.
3. Operations Department – Liebmann reported. Discussion ensued.
4. Solar Photovoltaic System Upgrade Project Update from Tim Holmes, Kenwood Energy. Discussion ensued.

5. BOARD REPORTS:

1. CLARK
 - a. NBWA Board Committee – verbal report
 - b. CASA Workforce Committee – no report
 - c. Operations Control Centers Ad Hoc Committee – no report
 - d. Fleet Management Ad Hoc Committee – no report
 - e. FutureSense Ad Hoc Committee – no report
 - f. Other Reports– none
2. MURRAY
 - a. Marin LAFCO – no report
 - b. Flood Zone 6 – verbal report
 - c. CASA Energy Committee – no report
 - d. Biosolids Ad Hoc Committee – no report
 - e. Development Ad Hoc Committee – no report
 - f. SF Bay Trail Ad Hoc Committee – no report
 - g. Other Reports –in the packet
3. ROBARDS
 - a. Gallinas Watershed Council/Miller Creek – no report
 - b. STPURWE Engineering Ad Hoc Committee – no report
 - c. McInnis Marsh Ad Hoc Committee – no report

- d. Development Ad Hoc Committee – no report
 - e. FutureSense Ad Hoc Committee – no report
 - f. Other Reports – none
4. YEZMAN
- a. Flood Zone 7– no report
 - b. CSRMA – no report
 - c. Marin Special District Association – no report
 - d. STPURWE Engineering Ad Hoc Committee – no report
 - e. Biosolids Ad Hoc Committee – no report
 - f. Other Reports– none

6. BOARD REQUESTS:

- A. Board Meeting Attendance Requests – none.
- B. Board Agenda Item Requests – none.

7. MISCELLANEOUS DISTRICT ARTICLES

Discussion ensued.

CLOSED SESSION:

ACTION:

THE BOARD OF DIRECTORS OF THE LAS GALLINAS VALLEY SANITARY DISTRICT ADJOURNED TO CLOSED SESSION ON MAY 2, 2024, AT 6:21 P.M. AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300, CONFERENCE ROOM, SAN RAFAEL, CALIFORNIA.

Lerch, Liebmann, McDonald and Pease left the meeting at 6:21 pm.

8. CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTION 54956.8

CONFERENCE WITH REAL PROPERTY NEGOTIATOR – Two items: 1) First Property: McPhail Site (APNs 180-151-18, 180-161-10, and 180-161-09) McPhail: Approximately 9.76 acres of land (APNs 180-151-18, 180-161-10, & 180-161-09), located at 1565 Vendola Drive, San Rafael, in the County of Marin (unincorporated), that served as the location of the former McPhail Elementary School, which consists of vacant land and secured structures ("McPhail Site"). Agency negotiator: Curtis Paxton, General Manager. Negotiating parties: San Rafael City Elementary School District. Under negotiation: Instruction to negotiator will concern both price and terms of payment.

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ADJOURNMENT:

ACTION:

The Board of Directors of the Las Gallinas Valley Sanitary District reconvened the Regular Session on May 2, 2024 at 7:04 p.m.

BOARD MEMBERS PRESENT:

Megan Clark, Craig Murray, Gary Robards and Crystal Yezman

STAFF PRESENT: Curtis Paxton, General Manager, Teresa Lerch, Board Secretary;

OTHERS PRESENT: Patrick Richardson, District Counsel;

PUBLIC COMMENT: None.

REPORT ON CLOSED SESSION: President Murray reported that there was nothing to report.

9. ADJOURNMENT:

ACTION:

Board approved (M/S Clark/Robards 4-0-0-0) the adjournment of the meeting at 7:05 PM.

AYES: Clark, Murray, Robards and Yezman.

NOES: None.

ABSENT: None.

ABSTAIN: None

The next Board Meeting is scheduled for May 6, 2024 at 4:00 pm at the District office.

ATTEST:

Teresa Lerch, Board Secretary

APPROVED:

Gary E. Robards, Vice-President

SPECIAL MEETING MINUTES OF MAY 6, 2024

THE BOARD OF DIRECTORS AND STAFF OF THE LAS GALLINAS VALLEY SANITARY DISTRICT MET IN OPEN SESSION ON MAY 6, 2024 AT 4:02 PM AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300 CONFERENCE ROOM, SAN RAFAEL, CA. 94903

BOARD MEMBERS PRESENT: Megan Clark, Craig Murray, Gary Robards and Crystal Yezman (arrived at 4:06 pm)

BOARD MEMBERS ABSENT: None.

STAFF PRESENT: Curtis Paxton, General Manager; Teresa Lerch, Board Secretary; Dale McDonald, District Treasurer; Mike Cortez, District Engineer, Mel Liebmann, Plant Manager; Greg Pease, Collections/Maintenance/Safety Manager; Ralph Loveless, Maintenance Supervisor;

OTHERS PRESENT: Barry Nitzberg

ANNOUNCEMENT: President Murray announced that the agenda had been posted as evidenced by the certification on file in accordance with the law.

1. PUBLIC COMMENT: None.

2. APPOINTMENT TO FILL THE VACANCY ON THE BOARD OF DIRECTORS PURSUANT TO GOV CODE SEC. 1780/BOARD POLICY B-90 AND ADMINISTER OATH OF OFFICE

Board Secretary Lerch administered the oath of office to Barry Nitzberg who was appointed by the Board on May 2, 2024 to fill the LGVSD Board vacancy. Nitzberg was officially sworn in as a District Board Member and was seated.

Yezman arrived at 4:06

3. BUDGET WORKSHOP ON PRELIMINARY 2024-25 BUDGET

McDonald presented information to the Board including projected Revenue, Capital Improvement Program expenditures, Capital Outlay for 2024-25, and Operation and Maintenance expenses. The Board provided feedback on priorities that should be considered when developing the Budget.

4. ADJOURNMENT:

ACTION:

Board approved (M/S Robards/Clark 5-0-0-0) the adjournment of the meeting at 5:27 PM in honor of Bike to Work Month.

AYES: Clark, Murray, Nitzberg, Robards and Yezman.

NOES: None.

ABSENT: None.

ABSTAIN: None.

The next Board Meeting is scheduled for May 16, 2024 in person at the District Office.

ATTEST:

Teresa Lerch, Board Secretary

APPROVED:

Gary E. Robards, Vice-President

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
A and P Moving Inc								
105	A and P Moving Inc	4065869	Document Storage- May	04/30/24	96.80	96.80	05/10/24	
Total A and P Moving Inc:					96.80	96.80		
ArcSine Engineering								
255	ArcSine Engineering	15658	SCADA On-call support for Pump Station, Plant	04/15/24	290.90	290.90	05/09/24	
255	ArcSine Engineering	15658	SCADA On-call support for Pump Station, Plant	04/15/24	290.90	290.90	05/09/24	
255	ArcSine Engineering	15658	SCADA On-call support for Pump Station, Plant	04/15/24	290.90	290.90	05/09/24	
Total ArcSine Engineering:					872.70	872.70		
B.W.S. Distributors, Inc.								
3605	B.W.S. Distributors, Inc.	290900	Gas Tech Monitors	04/09/24	1,939.35	1,939.35	05/09/24	
3605	B.W.S. Distributors, Inc.	290900	Gas Tech Monitors	04/09/24	1,939.36	1,939.36	05/09/24	
3605	B.W.S. Distributors, Inc.	290900	Gas Tech Monitors	04/09/24	1,939.35	1,939.35	05/09/24	
Total B.W.S. Distributors, Inc.:					5,818.06	5,818.06		
Bank of Marin Cardmember Services								
300	Bank of Marin Cardmembe	CC 4-3-24 April	Drinks for Board Meetings - AMATORI,PAM	04/01/24	80.44	80.44	04/29/24	
300	Bank of Marin Cardmembe	CC 4-3-24 April	Office Supplies -LERCH,TERESA	04/01/24	11.73	11.73	04/29/24	
300	Bank of Marin Cardmembe	CC 4-3-24 April	Personnel Hiring Recruitment -MCDONALD,DA	04/01/24	225.00	225.00	04/29/24	
300	Bank of Marin Cardmembe	CC 4-3-24 April	Misc. Items for electrical repairs - STARNES,DA	04/01/24	17.17	17.17	04/29/24	
300	Bank of Marin Cardmembe	CC 4-3-24 April	Tork strp & Bag -ASARO JR,ANTHONY J	04/01/24	171.69	171.69	04/29/24	
300	Bank of Marin Cardmembe	CC 4-3-24 April	Currtain for Oil Storage -LOVELESS,RALPH	04/01/24	713.52	713.52	04/29/24	
300	Bank of Marin Cardmembe	CC 4-3-24 April	Human Interface Module & Comm-E Com. Ada	04/01/24	1,266.74	1,266.74	04/29/24	
300	Bank of Marin Cardmembe	CC 4-3-24 April	Miscellaneous adjustment	04/01/24	28.08	28.08	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Webinar Bio Nitrogen Removal - MOORE,DON	03/07/24	25.00	25.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Internet Services for 101 LVR -SCHULTZ,AMY	03/07/24	620.56	620.56	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Food for Board Meeting - LERCH,TERESA	03/07/24	132.60	132.60	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Electronic Labeling System - LOVELESS,RALP	03/07/24	65.54	65.54	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Ink Cartridge - STARNES,DANIEL	03/07/24	54.60	54.60	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Misc. office supplies - AMATORI,PAM	03/07/24	96.44	96.44	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Misc. items, cupler, hose, blower, etc. COOK,G	03/07/24	252.13	252.13	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Coliier Samples - GOLSHANI,SAHAR	03/07/24	653.63	653.63	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	DE Tube H2B 5/B & DE Tube H2B 1/D -GOLSH	03/07/24	570.45	570.45	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Water Service - HUNT,BRANDON G	03/07/24	106.30	106.30	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Cookies for Board Meeting - LERCH,TERESA	03/07/24	28.87	28.87	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Online Meeting Software - LERCH,TERESA	03/07/24	55.99	55.99	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Marin County Park MTG - PAXTON,CURTIS D	03/07/24	49.61	49.61	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Parking for CSDA GM Summit -PAXTON,CURTI	03/07/24	59.97	59.97	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Webinar Bio Nitrogen Removal - ROGERS,NO	03/07/24	25.00	25.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	SFBS Tour of Contra Costa SD - ROGERS,NO	03/07/24	25.00	25.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Security for the gate at 300 SRR -SCHULTZ,AM	03/07/24	25.00	25.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Reflective Traffice Cones -INSKEEP,STEVEN	03/07/24	797.28	797.28	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Monthly Unlimited Car Wash - PAXTON,CURTI	03/07/24	40.00	40.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	SFBS Tour of Contra Costa SD -COOK,GLENN	03/07/24	25.00	25.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Process Control Utilizing lab data - ROGERS,	03/07/24	500.00	500.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Misc. office supplies - AMATORI,PAM	03/07/24	66.98	66.98	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Custom Muffler pipe - ASARO JR,ANTHONY J	03/07/24	27.31	27.31	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	e-TKN TNT & Volatile Acids - GOLSHANI,SAHA	03/07/24	769.12	769.12	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Weather App Service - PEASE,GREG	03/07/24	4.99	4.99	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Misc. office supplies - AMATORI,PAM	03/07/24	53.52	53.52	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Misc. office supplies - AMATORI,PAM	03/07/24	28.08	28.08	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Office Supplies - LIEBMANN,ROBERT M	03/07/24	33.45	33.45	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Misc. office supplies - AMATORI,PAM	03/07/24	36.70	36.70	04/29/24	

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Distirct Wierless Equip & Supplies - - MCDONA	03/07/24	1,672.89	1,672.89	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Parking Advanced Clean Trans Expo - PAXTON	03/07/24	64.03	64.03	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	SASM/LGVSD MTG -PAXTON,CURTIS D	03/07/24	52.29	52.29	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Office Supply -PAXTON,CURTIS D	03/07/24	114.20	114.20	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Lunch Meeting Ford/Paxton -PAXTON,CURTIS	03/07/24	62.35	62.35	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Coffee for both locations - AMATORI,PAM	03/07/24	113.97	113.97	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Water Service - HUNT,BRANDON G	03/07/24	84.44	84.44	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Water Service - HUNT,BRANDON G	03/07/24	156.05	156.05	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Suggestion box - HUNT,BRANDON G	03/07/24	26.44	26.44	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Transponder Bridge toll -HUNT,BRANDON G	03/07/24	40.00	40.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Food for Board Meeting - LERCH,TERESA	03/07/24	164.81	164.81	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Answering Service -HUNT,BRANDON G	03/07/24	45.14	45.14	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Licenseing Fees - HUNT,BRANDON G	03/07/24	16.00	16.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Monthly Licensesing Fees -HUNT,BRANDON G	03/07/24	2.00	2.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Misc. Items for electrical repairs - STARNES,DA	03/07/24	7.37	7.37	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Thermomneter - GOLSHANI,SAHAR	03/07/24	667.93	667.93	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Water Coolers for each location - HUNT,BRAND	03/07/24	1,223.56	1,223.56	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Transponder Bridge toll -HUNT,BRANDON G	03/07/24	40.00	40.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Starling Internet -LIEBMANN,ROBERT M	03/07/24	200.00-	200.00-	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Windshield replacement for Camry -MOORE,D	03/07/24	1,444.03	1,444.03	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	EPA/WRF Bio Workshop -PAXTON,CURTIS D	03/07/24	333.76	333.76	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Subscription for Fleetio Service -PEASE,GREG	03/07/24	192.00	192.00	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Internet Service for Pump station - SCHULTZ,A	03/07/24	269.68	269.68	04/29/24	
300	Bank of Marin Cardmembe	CC -4-3-24 Mar	Misc. office supplies - AMATORI,PAM	03/07/24	53.52-	53.52-	04/29/24	
Total Bank of Marin Cardmember Services:					14,226.75	14,226.75		
Buchholz Bob								
445	Buchholz Bob	WELLNESS R	Wellness reimbursement #2	05/03/24	230.13	230.13	05/09/24	
Total Buchholz Bob:					230.13	230.13		
Buck's Saw Service Inc								
450	Buck's Saw Service Inc	105606	Starter Motor	04/29/24	211.52	211.52	05/10/24	
Total Buck's Saw Service Inc:					211.52	211.52		
Byers Law Office								
475	Byers Law Office	14760	Legal Councel Aprl 24	05/01/24	10,280.00	10,280.00	05/10/24	
Total Byers Law Office:					10,280.00	10,280.00		
CalNet								
2935	CalNet	21592989	Phone Lines at Pump Station	04/20/24	327.19	327.19	05/09/24	
Total CalNet:					327.19	327.19		
CalPERS CERBT-OPEB								
560	CalPERS CERBT-OPEB	17527235	CERBT-OPEB Payment- Apr	05/01/24	11,630.00	11,630.00	05/01/24	
Total CalPERS CERBT-OPEB:					11,630.00	11,630.00		
Cal-West Rentals								
505	Cal-West Rentals	404434	Industrial Work Vehicle Rentals	04/26/24	2,198.10	2,198.10	05/09/24	
Total Cal-West Rentals:					2,198.10	2,198.10		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
Centricity GIS								
660	Centricity GIS	1555	Cityworks Implementation and Antero Migration	05/02/24	53,000.00	53,000.00	05/09/24	
Total Centricity GIS:					53,000.00	53,000.00		
Chapman & Patton								
3700	Chapman & Patton	552	Appraisal for SRCS Surplus Properties - McPha	04/30/24	15,000.00	15,000.00	05/09/24	
Total Chapman & Patton:					15,000.00	15,000.00		
Cintas Corporation								
675	Cintas Corporation	4189495527	Laundry Service for week of 04/14/2024	04/14/24	355.53	355.53	05/09/24	
675	Cintas Corporation	4189495527	Laundry Service for week of 04/14/2024	04/14/24	355.52	355.52	05/09/24	
675	Cintas Corporation	4189495527	Safewasher Filter Service	04/14/24	223.63	223.63	05/09/24	
675	Cintas Corporation	4190226621	Laundry Service for week of 04/21/2024	04/22/24	345.18	345.18	05/09/24	
675	Cintas Corporation	4190226621	Laundry Service for week of 04/21/2024	04/22/24	345.18	345.18	05/09/24	
675	Cintas Corporation	4190929848	Laundry Service for week of 04/29/2024	04/29/24	345.18	345.18	05/09/24	
675	Cintas Corporation	4190929848	Laundry Service for week of 04/28/2024	04/29/24	345.18	345.18	05/09/24	
Total Cintas Corporation:					2,315.40	2,315.40		
Comet Building Maintenance								
715	Comet Building Maintenanc	172560	Janitorial Services - Apr	04/21/24	1,670.00	1,670.00	05/09/24	
Total Comet Building Maintenance:					1,670.00	1,670.00		
Contractor Compliance and Monitoring, In								
730	Contractor Compliance and	20716	On-Call contract for labor compliance services	03/31/24	1,529.75	1,529.75	05/10/24	
Total Contractor Compliance and Monitoring, In:					1,529.75	1,529.75		
CPS HR Consulting								
780	CPS HR Consulting	0013024	Human Resources Consulting Services	04/27/24	1,779.69	1,779.69	05/10/24	
Total CPS HR Consulting:					1,779.69	1,779.69		
Data Instincts								
880	Data Instincts	3180	Provide Public Information & Awareness FY 202	04/30/24	2,798.75	2,798.75	05/10/24	
Total Data Instincts:					2,798.75	2,798.75		
Direct Dental Administrators LLC								
925	Direct Dental Administrator	D20240503-28	Dental Payment	04/28/24	511.40	511.40	05/02/24	
925	Direct Dental Administrator	D20240503-28	Dental Payment	04/28/24	390.00	390.00	05/02/24	
Total Direct Dental Administrators LLC:					901.40	901.40		
Du-All Safety LLC								
960	Du-All Safety LLC	25293	Safety & Training FY 2023-24	04/30/24	4,728.00	4,728.00	05/10/24	
Total Du-All Safety LLC:					4,728.00	4,728.00		
Edelstein, Daniel								
985	Edelstein, Daniel	APRIL 2024	Canada Goose Addling Project & NPDES Permi	05/03/24	4,138.25	4,138.25	05/10/24	
Total Edelstein, Daniel:					4,138.25	4,138.25		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
EOA Inc								
1050	EOA Inc	LG34-0324	Technical support for NPDES Permits	05/01/24	303.22	303.22	05/10/24	
1050	EOA Inc	LG34-0324	Technical support for NPDES Permits	05/01/24	1,718.28	1,718.28	05/10/24	
Total EOA Inc:					2,021.50	2,021.50		
Epidendio, Susan								
3750	Epidendio, Susan	2324-10043	LISRAP - 131 Birch Way	05/03/24	124.00	124.00	05/09/24	
Total Epidendio, Susan:					124.00	124.00		
Evans, Lilia								
3745	Evans, Lilia	2324-10044	LISRAP - 614 Wakerobin Lane	05/03/24	124.00	124.00	05/09/24	
Total Evans, Lilia:					124.00	124.00		
Freyer & Laureta Inc								
1150	Freyer & Laureta Inc	24-202	On-Call Contract for Engineering Services 2023	04/25/24	1,017.50	1,017.50	05/10/24	
1150	Freyer & Laureta Inc	24-203	Emergency Bypass Pumping Analysis & Respo	04/25/24	1,427.00	1,427.00	05/10/24	
Total Freyer & Laureta Inc:					2,444.50	2,444.50		
Gardeners Guild								
1180	Gardeners Guild	116769	Maintenance for MAY	05/01/24	2,153.00	2,153.00	05/10/24	
Total Gardeners Guild:					2,153.00	2,153.00		
GHD Inc.								
1190	GHD Inc.	380-0050422	Biosolids Program & Research Project Support	05/02/24	48,793.66	48,793.66	05/10/24	
1190	GHD Inc.	380-0050638	Amendment #1 Terra Linda- Hwy 101 Sewer Cr	05/03/24	1,668.25	1,668.25	05/10/24	
Total GHD Inc.:					50,461.91	50,461.91		
Grainger								
1235	Grainger	9099245640	Misc. Supplies	04/25/24	346.37	346.37	05/10/24	
1235	Grainger	9103582483	Misc. Supplies	04/30/24	590.16	590.16	05/10/24	
1235	Grainger	9106310957	Misc. Supplies	05/02/24	375.67	375.67	05/10/24	
1235	Grainger	9106907331	Misc. Supplies	05/02/24	524.74	524.74	05/10/24	
Total Grainger:					1,836.94	1,836.94		
HASA Inc.								
3055	HASA Inc.	955530	Hypochlorite - April 2024 - June 2024	04/23/24	14,874.34	14,874.34	05/10/24	
Total HASA Inc.:					14,874.34	14,874.34		
Hazen and Sawyer								
1295	Hazen and Sawyer	20148-003-34	Digester Room MCC #2 Upgrade	05/03/24	732.50	732.50	05/09/24	
1295	Hazen and Sawyer	20148-005-21	Amendment No. 3 - Additional Modeling & 2024	05/03/24	15,550.00	15,550.00	05/09/24	
1295	Hazen and Sawyer	20148-007-5	On-Call Contract for Engineering Services (202	05/03/24	9,735.07	9,735.07	05/09/24	
Total Hazen and Sawyer:					26,017.57	26,017.57		
Herb's Pool Service Inc								
1310	Herb's Pool Service Inc	778415-1	Max e-pro pump	04/15/24	1,295.66	1,295.66	05/09/24	

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
Total Herb's Pool Service Inc:					1,295.66	1,295.66		
Jackson's Hardware Inc								
1385	Jackson's Hardware Inc	153689	Misc. Supplies	04/30/24	10.82	10.82	05/09/24	
1385	Jackson's Hardware Inc	153829	Misc. Supplies	05/01/24	9.81	9.81	05/09/24	
Total Jackson's Hardware Inc:					20.63	20.63		
Jefferson Security Systems								
1405	Jefferson Security Systems	R25411	Alarm Service April to June	04/02/24	360.00	360.00	05/09/24	
Total Jefferson Security Systems:					360.00	360.00		
Jones Garage Door Co., Inc.								
3770	Jones Garage Door Co., In	50437	Mother Board Replacement	05/01/24	521.00	521.00	05/09/24	
Total Jones Garage Door Co., Inc.:					521.00	521.00		
Kennedy Jenks Consulting Inc								
1440	Kennedy Jenks Consulting	171380	STPURWE: Amendment 2 - Construction Mana	05/01/24	5,185.00	5,185.00	05/10/24	
Total Kennedy Jenks Consulting Inc:					5,185.00	5,185.00		
Kenwood Energy								
1445	Kenwood Energy	LGVSD-2404	Solar PV System Upgrade	04/05/24	2,245.00	2,245.00	05/10/24	
1445	Kenwood Energy	LGVSD-2404	BESS Consulting Services	04/05/24	2,513.75	2,513.75	05/10/24	
Total Kenwood Energy:					4,758.75	4,758.75		
Lingo Telecom Inc								
460	Lingo Telecom Inc	49598683	Truck Lines - 101 LVR	04/01/24	346.65	346.65	05/09/24	
Total Lingo Telecom Inc:					346.65	346.65		
Linscott Engineering Contractors Inc								
1510	Linscott Engineering Contr	4288	Second Pump Base Replacement at McPhail P	04/30/24	2,930.00	2,930.00	05/09/24	
Total Linscott Engineering Contractors Inc:					2,930.00	2,930.00		
Marin Ace								
1560	Marin Ace	72889	Misc. Supplies	04/25/24	13.62	13.62	05/09/24	
Total Marin Ace:					13.62	13.62		
Marin IJ								
3020	Marin IJ	0001410388	Classified Advertising - Board Vacancy	04/30/24	123.42	123.42	05/09/24	
3020	Marin IJ	0001410388	Classified Advertising - Engineering - Proposals	04/30/24	655.60	655.60	05/09/24	
3020	Marin IJ	0001410388	Classified Advertising - Engineering - Sealed Bi	04/30/24	1,076.40	1,076.40	05/09/24	
Total Marin IJ:					1,855.42	1,855.42		
Marin Sanitary Service Inc								
1615	Marin Sanitary Service Inc	2999215	10 Yd Dirt Box Delivery	05/01/24	1,865.00	1,865.00	05/09/24	
Total Marin Sanitary Service Inc:					1,865.00	1,865.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
McMaster-Carr								
1640	McMaster-Carr	24814403	Strut Channel Nuts, Strut Channel Washer	05/03/24	109.47	109.47	05/09/24	
1640	McMaster-Carr	25031186	Strut Mount Metal Clamp	05/03/24	55.17	55.17	05/09/24	
1640	McMaster-Carr	25653526	Misc. Supplies	05/03/24	805.82	805.82	05/09/24	
Total McMaster-Carr:					970.46	970.46		
Motion Industries Inc.								
3250	Motion Industries Inc.	CA38-0082410	Water Hose Assembly	04/29/24	366.36	366.36	05/09/24	
Total Motion Industries Inc.:					366.36	366.36		
Operating Engineers Local No. 3								
1850	Operating Engineers Local	UNION DUES -	Union Dues 4/5/2024 Paydate	04/02/24	732.55	732.55	05/09/24	
1850	Operating Engineers Local	UNION DUES	Union Dues 4/19/24 Paydate	04/02/24	732.55	732.55	05/09/24	
Total Operating Engineers Local No. 3:					1,465.10	1,465.10		
Pacific Gas & Electric - 0580531718-6								
1890	Pacific Gas & Electric - 058	2/27/2024 - 3/2	Electricity @ Plant	05/03/24	47,419.04	47,419.04	05/09/24	
Total Pacific Gas & Electric - 0580531718-6:					47,419.04	47,419.04		
Pacific Gas & Electric CDX7397590484 SOL								
1905	Pacific Gas & Electric CDX	2/27/2024 - 03/	Electricity on Solar 2/27-3/26	05/03/24	206.69	206.69	05/09/24	
Total Pacific Gas & Electric CDX7397590484 SOL:					206.69	206.69		
Platt Electric Supply								
1995	Platt Electric Supply	6Z50856	Misc. Supplies	05/01/24	1,037.45	1,037.45	05/09/24	
Total Platt Electric Supply:					1,037.45	1,037.45		
Polydyne Inc.								
2005	Polydyne Inc.	1829223	Clarifloc	04/25/24	4,941.33	4,941.33	05/10/24	
Total Polydyne Inc.:					4,941.33	4,941.33		
Radtke, Paula								
3765	Radtke, Paula	2324-10046	LISRAP - 376 Gicier Way	05/03/24	124.00	124.00	05/09/24	
Total Radtke, Paula:					124.00	124.00		
RelaDyne								
2105	RelaDyne	0108526	Unleaded- Collections	04/22/24	999.48	999.48	05/10/24	
2105	RelaDyne	0108526	Unleaded- Plant	04/22/24	999.48	999.48	05/10/24	
2105	RelaDyne	0108526	Diesel- Collections	04/22/24	869.98	869.98	05/10/24	
2105	RelaDyne	0108526	Diesel- Plant	04/22/24	869.97	869.97	05/10/24	
Total RelaDyne:					3,738.91	3,738.91		
Rexel USA Inc.								
3595	Rexel USA Inc.	S138050860.0	Comm-e Powerflex Ethernet/1P	04/25/24	982.41	982.41	05/10/24	
Total Rexel USA Inc.:					982.41	982.41		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
Satcom Global								
2310	Satcom Global	A105240183	Satellite Phone Service	05/01/24	56.77	56.77	05/10/24	
2310	Satcom Global	A105240183	Satellite Phone Service	05/01/24	56.77	56.77	05/10/24	
2310	Satcom Global	A105240183	Satellite Phone Service	05/01/24	56.78	56.78	05/10/24	
Total Satcom Global:					170.32	170.32		
Shape Incorporated								
2360	Shape Incorporated	33405B22127	4" Elbow	04/29/24	1,530.59	1,530.59	05/09/24	
Total Shape Incorporated:					1,530.59	1,530.59		
SMART								
2380	SMART	592299	License fee 4/1/24 TO 3/31/2024	04/01/24	436.43	436.43	05/09/24	
Total SMART:					436.43	436.43		
St. John-Huges, Polly								
3755	St. John-Huges, Polly	2324-10042	LISRAP - 115 Marin Valley Drive	05/03/24	124.00	124.00	05/09/24	
Total St. John-Huges, Polly:					124.00	124.00		
SWRCB (FEES)								
2485	SWRCB (FEES)	SW-0288231	Annual Permit Fee Fac ID 221C386785	05/03/24	704.00	704.00	05/09/24	
Total SWRCB (FEES):					704.00	704.00		
Towne Communications, Inc.								
2565	Towne Communications, In	131948	Quarterly Charge for Warranty Agreement on P	04/29/24	176.60	176.60	05/09/24	
Total Towne Communications, Inc.:					176.60	176.60		
United Site Services								
2650	United Site Services	INV-4451694	Porta Potties at plant	04/27/24	1,271.66	1,271.66	05/09/24	
Total United Site Services:					1,271.66	1,271.66		
Univar USA Inc.								
2655	Univar USA Inc.	52022729	Sodium Bisulfite	04/16/24	9,753.27	9,753.27	05/10/24	
2655	Univar USA Inc.	52045761	Sodium Bisulfite	04/23/24	9,753.27	9,753.27	05/10/24	
Total Univar USA Inc.:					19,506.54	19,506.54		
Verizon Wireless								
2710	Verizon Wireless	9960137665	District Cell Phones	05/01/24	695.31	695.31	05/09/24	
2710	Verizon Wireless	9960137665	District Cell Phones	05/01/24	52.14	52.14	05/09/24	
2710	Verizon Wireless	9960137665	District Cell Phones	05/01/24	38.01	38.01	05/09/24	
2710	Verizon Wireless	9960137665	District Cell Phones	05/01/24	521.02	521.02	05/09/24	
2710	Verizon Wireless	9960137665	District Cell Phones	05/01/24	260.70	260.70	05/09/24	
2710	Verizon Wireless	9960137665	District Cell Phones	05/01/24	52.14	52.14	05/09/24	
Total Verizon Wireless:					1,619.32	1,619.32		
Water Environment Federation								
2745	Water Environment Federa	000352169	Membership - Moore, D.	05/06/24	296.00	296.00	05/09/24	
2745	Water Environment Federa	00360523	Membership - Paxton, C.	05/06/24	361.00	361.00	05/09/24	

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	Voided
Total Water Environment Federation:					657.00	657.00		
WEX Health Inc.								
2780	WEX Health Inc.	4_30 FSA	FSA Reimbursement 4-30-2024	05/01/24	93.22	93.22	05/01/24	
Total WEX Health Inc.:					93.22	93.22		
Zbinovsky, Julianna								
3760	Zbinovsky, Julianna	2324-10045	LISRAP - 12 Roosevelt Ave	05/03/24	124.00	124.00	05/09/24	
Total Zbinovsky, Julianna:					124.00	124.00		
Grand Totals:					340,627.41	340,627.41		

Board Member: _____

General Manager: _____

Finance Manager: _____

Agenda Item 3c
Date May 16, 2024

Directors' Meeting Attendance Recap

<u>Name</u>	<u>Total Meetings</u>
Megan Clark	6
Craig Murray	6
Gary Robards	5
Crystal Yezman	<u>4</u>
Total	<u><u>21</u></u>

Meeting Date: 5/16/2024
Paydate: 5/17/2024



101 Lucas Valley Road, Suite 300, San Rafael, CA 94903
 Office: 415.472.1734 Fax: 415.499.7715
BOARD MEMBER ATTENDANCE FORM

Director's Name: MEGAN CLARY Month: APRIL 2024

Board Members shall be compensated for up to the legal limit of six (6) meetings per month and one (1) per day. Board members are limited to four (4) conferences or seminars per year. For multi-day conferences, compensation shall be at a maximum of one (1) meeting per day.

REGULAR and SPECIAL MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
4 th	REG.	✓	
17 th	SPECIAL - BOD interviews	✓	
18 th	REG.	✓	
TOTAL		3	

OTHER MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
2 nd	NBWA CONF. COMM.	✓	
16 th	" " "	✓	
19 th	NBWA CONFERENCE	✓	
TOTAL		3	

Total Meetings for which I am Requesting Payment: Max of six (6) per Health & Safety Code §4733	6
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I hereby certify that the meetings as set forth above are true and correct and are for the purpose of conducting official business for the Las Gallinas Valley Sanitary District.

Megan Clary Director Signature Date: 5-2-24
[Signature] Administrative Services Manager Approved Date: 5/3/24
[Signature] Board Secretary Received Date: 5/2/24



101 Lucas Valley Road, Suite 300, San Rafael, CA 94903

Office: 415.472.1734 Fax: 415.499.7715

BOARD MEMBER ATTENDANCE FORM

Director's Name: MURRAY, Craig K. Month: April 2024

Board Members shall be compensated for up to the legal limit of six (6) meeting per month and one (1) per day. Board members are limited to four (4) conferences or seminars per year. For multi-day conferences, compensation shall be at a maximum of one (1) meeting per day.

REGULAR and SPECIAL MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
4/4/24	Board Meeting	X	
4/17/24	Special Meeting – Director Interviews	X	
4/18/24	Board Meeting	X	
TOTAL		3/3	

OTHER MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
4/2/24	EESI The National Security – Climate Adaptation Nexus		X
4/11/24	Wastewater Facility – Tenant Space Tour – Watershed Native Plant Nursery – Richmond Canal Avenue WWTP Facility		X
4/7,28/24	Merrydale Road/Las Gallinas Creek Headwater Litter & Debris Removal c/o City of San Rafael: 4/7 0.5 hrs; 4/28 1.5 hrs		XX
4/9/24	CWEA Annual Conference and Expo in Sacramento. Pre-Conference AC24 Workshop Farfield-Suisun Sewer District, private partner production of biosolids-derived liquid fertilizer.		X
4/11/24	Marin LAFCo Meeting		X
4/16/24	EESI Demystifying Ocean Carbon Dioxide Removal		X
4/16/24	Using GIS for State and Local Government Asset Management Webinar Series: April 2024 Session: GIS for Lead Line Identification and Safe Water Solutions – Bad Elf, Carahsoft.	X	
4/19/24	NBWA Conference – Sonoma State University	X	
4/25/24	CASA Air Quality, Climate Change & Energy (ACE) Workgroup Meeting	X	
TOTAL		3/9	

Total Meetings for which I am Requesting Payment: Max of six (6) per Health & Safety Code §4733	6/12
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101 Lucas Valley Road, Suite 300, San Rafael, CA 94903

Office: 415.472.1734 Fax: 415.499.7715

BOARD MEMBER ATTENDANCE FORM

I hereby certify that the meetings as set forth above are true and correct and are for the purpose of conducting official business for the Las Gallinas Valley Sanitary District.



Director Signature

April 25, 2024

Date



Administrative Services Manager Approved

5/2/24

Date



Board Secretary Received

4/25/24

Date



101 Lucas Valley Road, Suite 300, San Rafael, CA 94903

Office: 415.472.1734 Fax: 415.499.7715

BOARD MEMBER ATTENDANCE FORM

Director's Name: GARY ROBERTS Month: APR 2024

Board Members shall be compensated for up to the legal limit of six (6) meetings per month and one (1) per day. Board members are limited to four (4) conferences or seminars per year. For multi-day conferences, compensation shall be at a maximum of one (1) meeting per day.

REGULAR and SPECIAL MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
4/4/24	Board Meeting	X	
4/17/24	APPLICANT INTERVIEW	X	
4/19/24	Board Meeting	X	
TOTAL			

OTHER MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
4/10/24	GALLINAS WATERSHED	X	
4/19/24	NRWA Conference	X	
TOTAL			

Total Meetings for which I am Requesting Payment: 5
 Max of six (6) per Health & Safety Code §4733

I hereby certify that the meetings as set forth above are true and correct and are for the purpose of conducting official business for the Las Gallinas Valley Sanitary District.

[Signature]
 Director Signature

5/2/24
 Date

[Signature]
 Administrative Services Manager Approved

5/3/24
 Date

[Signature]
 Board Secretary Received

5/2/24
 Date



101 Lucas Valley Road, Suite 300, San Rafael, CA 94903

Office: 415.472.1734 Fax: 415.499.7715

BOARD MEMBER ATTENDANCE FORM

Director's Name: Crystal Yezman Month: April 2024

Board Members shall be compensated for up to the legal limit of six (6) meetings per month and one (1) per day. Board members are limited to four (4) conferences or seminars per year. For multi-day conferences, compensation shall be at a maximum of one (1) meeting per day.

REGULAR and SPECIAL MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
4/4/24	Regular Board Mtg.	✓	
4/18/24	Regular Board Mtg.	✓	
TOTAL			

OTHER MEETINGS		CHARGING DISTRICT	
Date	Description of meeting	Yes	No
4/17/24	Special Mtg. Board Interviews	✓	
4/19/24	NBWA Conf.	✓	
TOTAL			

Total Meetings for which I am Requesting Payment: 4
Max of six (6) per Health & Safety Code §4733

I hereby certify that the meetings as set forth above are true and correct and are for the purpose of conducting official business for the Las Gallinas Valley Sanitary District.

[Signature]
 Director Signature

[Signature]
 Administrative Services Manager Approved

[Signature]
 Board Secretary Received

5/2/24
 Date

5/3/24
 Date

5/2/24
 Date



Item Number 3D

GM Review CP

Agenda Summary Report

To: Board of Directors
From: Michael P. Cortez, PE, District Engineer
 (415) 526-1518; mcortez@lqvsd.org
Mtg. Date: May 16, 2024
Re: Budget Authorization for Actions to Potentially Eliminate Blending
Item Type: Consent Action Information Other
Standard Contract: Yes No (See attached) Not Applicable

STAFF RECOMMENDATION

Board to approve the following:

1. A budget authorization in the amount of \$1,375,000 to expand the wet weather capacity of the Primary Effluent Pump Station and Secondary Clarifiers to 24 MGD with the goal of potentially eliminating or reducing bypass events at the treatment plant.
2. A sole-source equipment supply contract with G3 Engineering for the retrofit of existing pumps or procurement of new larger pumps manufactured by Cascade Pumps for the Primary Effluent Pump Station in the amount of \$290,000, which is included in the requested budget authorization.
3. A sole-source equipment supply contract with One Water Technologies for the procurement of “Flo-Clip Baffle System” flocculation baffles for the two Secondary Clarifiers in the amount of \$388,000, which is included in the requested budget authorization.

BACKGROUND

The District’s existing 2022 NPDES Permit (CA0037851, Order No. R2-2020-0022) includes a requirement to consider alternatives to discontinue bypass events (blending) by December 1, 2024. Furthermore, the specific tasks to reduce blending outlined in Table 6 of the 2022 NPDES Permit require the preparation of a Utility Analysis and implementation of all feasible actions should the District seek to continue blending while utilizing the new combined fixed film/activated sludge nitrification and denitrification process (Bio-Wheels system) installed with the Secondary Treatment Plant Upgrade & Recycled Water Expansion (STPURWE) project. Blending refers to periods when only partial biological treatment is performed due to limited secondary treatment capacity at high flows.

Following substantial completion of the STPURWE project in late 2022, the District’s treatment capacity was increased to 18 MGD. In the two years following the commissioning of the project, the number and size of blending events have decreased but continue to occur during major storm events. Historically, the District had identified potential alternatives to eliminate blending such as flow equalization and the addition of a third secondary clarifier. However, because of existing site constraints and high cost of these alternatives estimated at \$20M, the District implemented a more cost-effective “systems approach” to eliminate blending by improving upon the benefits



achieved with the STPURWE project combined with a broader collection system sewer rehabilitation and inflow and infiltration (I&I) reduction program. Such an approach is consistent with the 2022 NPDES Permit.

Pursuant to the Unit Analysis requirement imposed by the Regional Water Board, starting in late 2023, District staff initiated a partial evaluation of primary and secondary treatment facilities with Pacific Wastewater Optimization (PWO) based on Aqua Engineering and District staff's observation of the results of the STPURWE project. The analyses show that there is a potential alternative to flow equalization/third secondary clarifier by increasing the pumping capacity of the Primary Effluent Pump Station and enhancing the performance of the two Secondary Clarifiers to provide full biological treatment capacity up to the highest recorded peak wet weather flow of 24 MGD at the plant. This finding is significant in that other than potentially eliminating flow equalization, any improvement in hydraulic or biological treatment performance will help reduce the size and cost of necessary facilities should the peak wet weather flow exceed 24 MGD due to unforeseen increase in the frequency of major storm events. As such, staff recommends moving forward with the project. The estimated cost of improvements is \$1.375 million with the following breakdown:

A. Primary Effluent Pump Station Optimization		
1. New/retrofit Cascade pumps to achieve 24 MGD:		\$ 262,000
2. Installation and delivery:		\$ 78,000
3. Electrical and miscellaneous piping work:		\$ 300,000
B. Secondary Clarifiers Optimization		
1. Flo-Clip Baffle System by One Water Technologies:		\$ 388,000
2. Installation and delivery:		\$ 108,000
3. Engineering services:		\$ 80,000
	Subtotal:	\$1,216,000
	Sales tax on equipment:	\$ 60,125
	Project management:	\$ 38,075
	Contingency (5%)	\$ 60,800
	Total	\$1,375,000

District staff sought a second opinion from Hazen and Sawyer regarding the recommendations to achieve 24 MGD. Hazen and Sawyer reviewed the analysis and made extensive comments on WPO's technical memorandum and supporting hydraulic analysis. District staff deemed WPO satisfactorily responded to each comment, and that the recommendations to achieve 24 MGD are reasonable.

PREVIOUS BOARD ACTION

N/A

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

\$500,000 for FY 2023-24 and \$875,000 for FY 2024-25 for a total of \$1,375,000. Funding sources for the project will come from unspent carryover funds from the STPURWE project in



FY 2023-24 and from unrestricted general funds to be approved in the FY 2024-25 capital outlay budget. The District's estimate is slightly above what PWO estimated due to an increase electrical work anticipated for the Primary Effluent Pump Station Optimization and contingency increase to 5%. As stated in the in the hydraulic analysis and recommendation by PWO, the estimate is considered conservative and the numbers are expected to be adjusted downward when the electrical and pump repair costs are detailed.



DATE: March 25, 2024

RE: **ANALYSIS OF EXISTING HYDRAULIC CAPACITY AND UTILITY ANALYSIS OF OPTIONS TO ELIMINATE BLENDING – LGVSD TREATMENT PLANT**

TO: Mike Cortez, PE, District Engineer

FROM: Jason Warner, PE, Project Manager (CE No. 63190)

The District’s existing NPDES Permit (issued in September 1, 2020) includes six requirements to minimize the number and size of bypass events (See Table 6). Three apply to the treatment plant, including continued implementation of a Wet Weather Improvement Plan, increasing the Biological Capacity to 18 mgd, and a requirement to prepare a Utility Analysis by December 1, 2024. The Utility Analysis requires identification of all feasible actions available to eliminate bypasses.

On November 1, 2015, the Las Gallinas Valley Sanitary District submitted its Wet Weather Improvement Plan. The plan identifies key performance metrics and projects to minimize peak flows.

In 2022, the Las Gallinas Valley Sanitary District upgraded its treatment plant to provide 18 mgd of capacity— including conversion to a biological nitrogen removal process. The upgrade puts the District in a leadership position related to nutrient treatment in the SF Bay Area. One limitation of the upgrade is that the District continues to bypass a portion of peak flows during peak wet weather events above 18 mgd.

The analysis included in this memorandum satisfies the major requirement of the Utility Analysis – namely to identify alternatives to eliminate bypasses. The focus of this memo is to examine and resolve barriers to treatment for peak flows up to 24 mgd. 24 mgd is expected to eliminate bypasses at Las Gallinas as no influent flows above this value are recorded.

A secondary limitation of the upgraded plant is the inability to directly control RAS flows. The existing configuration allows Operations Staff to set a weir gate elevation, but the flow over the weir varies and does not allow direct control of a major process variable. A review of possible solutions will be included in a follow-up memorandum. The existing system is serviceable, but not ideal.

Based upon input from staff, the following potential bottlenecks were analyzed to allow 24 mgd peak capacity:

1. Gravity pipe segments from the primary clarifiers to the primary effluent pump station.
2. Primary Effluent Pump Station
3. Secondary Clarifiers
4. Gravity pipe segments from Secondary Clarifiers to Outfall

The analysis shows that the Primary Effluent Pump Station (Item 2) and Secondary Clarifiers (Item 3) are the bottlenecks to achieve 24 mgd of capacity. The following memo details and recommends solutions to upgrade the capacity of the primary effluent pump station and secondary clarifiers to 24 mgd. The cost to upgrade to 24 mgd is estimated at \$1.32M.

1.0 Analysis of Gravity Pipe Segments

To analyze the gravity pumping systems, Pacific Wastewater Optimization engaged Dan Goodwin (Innovative Hydraulics), an expert treatment plant hydraulic engineer. The full analysis and technical report are included in Appendix A.

The two primary questions considered in the analysis were:

Is the existing piping from the primary clarifiers to the primary effluent pump station adequate to convey 24 mgd?

And

Is the existing piping from the secondary clarifiers to the outfall adequate to convey 24 mgd of capacity?

The analysis shows that the capacity in the primary effluent pipeline is dependent on the downstream wetwell level. When the level is operated at 10.0’ (site elevation 12.5’) and 24 mgd is routed through the primaries, then the V-notch weirs in all three primaries are not surcharged. When operated at 10.0’ or below – the capacity of the piping from the primaries to the effluent pump station meets or exceeds 24 mgd. From operational records (see Appendix C), it appears that the pump station does not possess capacity to maintain the 10.0’ level and rises to 11.0’ and potentially beyond (the instrument does not read above 11.0’). The Primary Effluent Pump Station is the single greatest limitation to plant capacity.

The report also includes an analysis of the piping segments from the secondary clarifiers to the outfall. This segment is currently under construction and will be modified within the next six months. Per the request from staff, the secondary effluent pipeline capacity was evaluated - with and without the improvements. The findings are shown in Table 5 (Table number from report in Appendix A) below.

Table from Hydraulic Analysis Report (Appendix A)

Table 5: Water Elevation With and Without Improvements

Flow Value	Water elevation downstream of v-notch weirs, existing conditions	Water elevation downstream of v-notch weirs, proposed conditions
10 MGD	18.37	18.37
15 MGD	18.59	18.59
20 MGD	20.28*	18.80
24 MGD	22.57*	18.94

* Invert elevation of v-notch weir is 20.29

Without improvements, surcharging begins at 20 mgd with nearly 2 feet of secondary clarifier surcharging at 24 mgd. The analysis shows that the modifications under construction alleviate all surcharging and allow

free flow of 24 mgd (see second column). The modifications underway appear to relieve a significant barrier to achieving 24 mgd of capacity.

From the analysis, both of the gravity segments from the primaries to the primary effluent pump station and downstream segments from the secondary clarifiers will allow 24 mgd when the ongoing construction is completed (early Summer 2024).

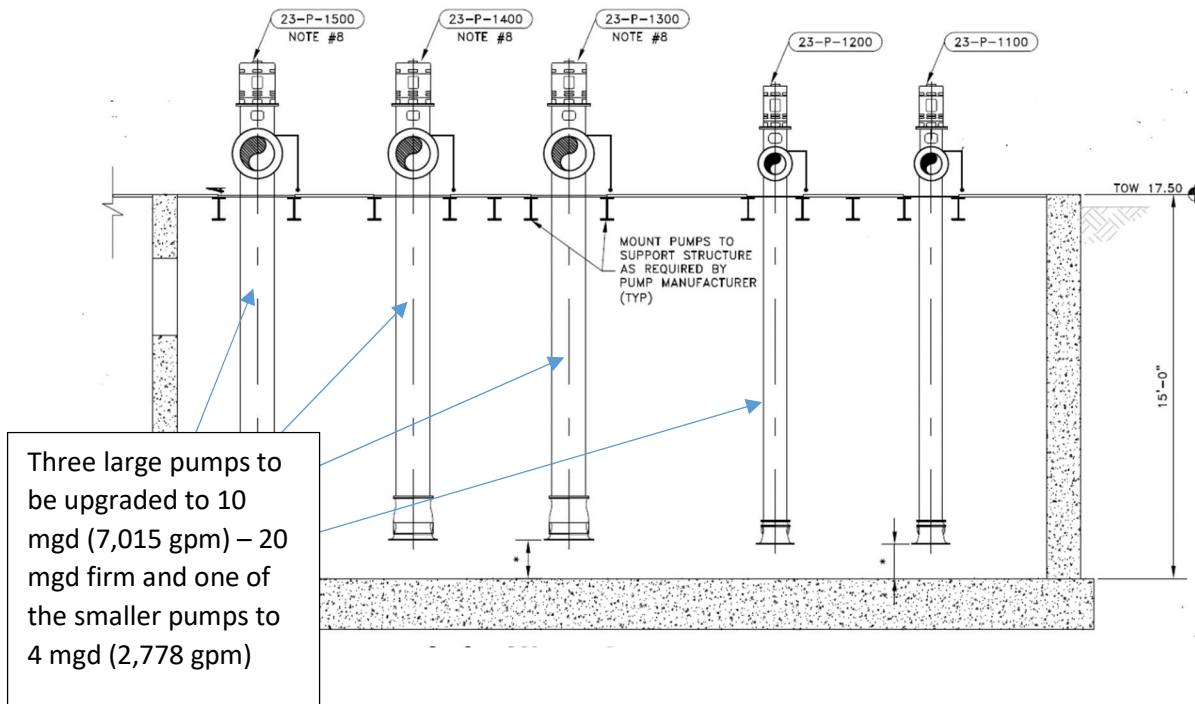
2.0 Analysis of Primary Effluent Pump Station

The existing pump station is designed for 18 mgd. From recent performance data, it is possible that the peak capacity is as low as 14 mgd (see Appendix C – SCADA Data from 2/4/24). When flows exceeds 12 mgd, the wetwell extends above 13.5 feet and Operations staff members are forced to bypass secondary treatment. If the primary effluent pump station is operating above 13.5, the hydraulic capacity of the gravity lines between the primaries and the primary effluent pump station is below 24 mgd.

During wet weather, the District operates the primary effluent pump station in contact stabilization mode. The mode separates RAS flows from the primary effluent pump station – so the station is dedicated solely to primary effluent during a storm. Under existing conditions, the smaller primary effluent pumps do not add capacity when two (or three) of the larger pumps are operating. The smaller pumps cannot overcome the head produced by the larger pumps.

Cascade Pump (the manufacturer of the existing pumps) was consulted about replacement options to achieve 24 mgd. Cascade proposed retrofitting the three large pumps with higher flow units. Their best option was to provide 20 mgd across two pumps (all three large pumps will be upgraded) and upgrading one of the smaller pumps to a higher head unit with 4 mgd capacity. The configuration allows for 24 mgd of total capacity with one of the larger units out of service. The cost for the pumps is \$330,000 (including tax), pump shop services of \$140,000, and delivery charges of \$8,000 (Total \$498k). The Cascade alternative avoids expansion of the existing wetwell which would likely exceed the retrofit proposal by a factor of three.

Figure 1: Existing Primary Effluent Pump Line Up



The recommended scope is built around meeting an October 31, 2024 delivery schedule. It includes upgrading the bowl assembly to 7,015 gpm at 25 feet TDH on three pumps and 2,778 gpm at 25 feet on one of the smaller pumps. The pump upgrade scope also includes replacement of the lower column section to accommodate the new bowl assembly. The existing 40 hp motor will also be replaced with a 75 hp motor assembly (both at 1200 rpm). The new bowl assembly and lower column section will be epoxy coated. The cost estimate includes a \$150,000 allowance for electrical upgrades. This number will be refined after a site visit by Mr. Todd Beecher – Beecher Engineering planned for April 10/11th.

3.0 Secondary Clarifier Optimization –CFD Modeling Results (Summary of Prior Tech Memo)

As a part of the initial vision to achieve 24 mgd of capacity, Mike Cortez directed a study to improve the treatment capacity of the secondary clarifiers. Capacity is dependent on the mixed liquor solids concentration and settling characteristics (SVI). The evaluation (see Attachment B – dated November 7th, 2023) included computation fluid dynamics (CFD) modeling of the Las Gallinas Secondary Clarifiers using conservative SVI’s corresponding to the 75th and 83rd percentile (two different SVI scenarios). With the 75th percentile, optimization improved effluent quality by 54% at 24 mgd, reducing effluent solids from 20.0 to 9.4 mg/L. A summary of the model runs and findings is shown in the following table.

Table 1: Summary of Model Results – Secondary Clarifier Optimization Report

LGVSD Secondary Clarifiers - Summary of Model Run Results

<i>Scenario</i>	<i>Flow/Clarifier (MGD)</i>	<i>SVI (mL/g) a</i>	<i>MLSS (mg/L)</i>	<i>Optimized</i>	<i>Effluent TSS (mg/L)</i>	<i>Improve. (%)</i>
1	9	146	2115	No	13.0	

2	9	146	2115	Yes	7.7	41%
3	8	146	2115	No	11.0	
4	12	146	2115	No	20.0	
5	12	146	2115	Yes	9.2	54%
6	12	165	2115	No	43.0	
7	12	165	2115	Yes	31.0	28%

^a SVI of 146 corresponds to 75th percentile

^a SVI of 165 corresponds to the 83rd percentile

The modeling shows that secondary clarifier optimization can provide significant additional capacity and allow operation to 24 mgd. The cost of optimization is approximately \$612,000 including design, fabrication, delivery, and installation in two clarifiers.

Figure 2: Conceptual rendering of Flo-Clip Baffles



4.0 Estimated Costs

The costs to improve the Primary Effluent Pump Station and Secondary Clarifiers is estimated at \$1.32M as detailed in Table 2 below. The estimate is considered conservative and the numbers are expected to be adjusted downward when the electrical and pump repair costs are detailed. An estimate for the pump upgrade (removal, installation of new parts, and re-installation) is expected the week of 3/25/24. The electrical costs will be updated following a field investigation on April 10/11th.

Table 2: Summary of Costs to Achieve 24 MGD Capacity in Primary Effluent Pump Station and Secondary Clarifiers

Primary Effluent Pump Station							
Pump Retrofit Elements (Retrofit 4 Pumps to achieve 24 mgd firm)						\$	290,000
Retrofit and Installation						\$	140,000
Delivery						\$	8,000
Electrical/VFD Upsizing Allowance						\$	150,000
Secondary Clarifier Optimization							
Detailed Baffle System Design, Anchorage Calcs, and Fabrication Drawings						\$	80,000
Flo-Clip Baffles (2 Clarifiers) - including 316 SS Mounting Hardware						\$	388,000
Delivery						\$	8,000
Installation (2 Clarifiers)						\$	100,000
Subtotal						\$	1,164,000
Sales Tax on Equipment (\$290k + \$388k)						\$	62,715
Project Management (5% of subtotal)						\$	58,200
Contingency (3% of subtotal)						\$	34,920
Total Estimated Costs						\$	1,319,835

5.0 Outstanding Issues

Evaluating potential alternatives to the existing weir gate RAS flow control method are included in the scope and will be included in a follow up memo. The challenge of improving RAS Pumping is independent of the improvements required to achieve 24 mgd of primary effluent pumping and secondary clarifier capacity. The two questions can be considered independently.

During discussions with plant staff, the challenge of disinfecting peak flows emerged. A question was raised about the ability to disinfect during peak flows due to limited contact time. A mitigating factor is the District's permit that is based upon a six-week rolling geometric mean. The six-week averaging period allows for one or two high values while maintaining compliance. Additionally, if a high value is recorded, dosage levels can be raised in the following weeks to ensure compliance. In short, the existing permit provides grace for significant peak events.

One way to supplement disinfection during peak events is to supplement with peracetic acid. Peracetic acid acts nearly instantaneously, which is helpful when contact time is reduced. Peracetic acid may also allow the construction of a smaller UV disinfection system in the future, assuming supplementation at peak flows. Peracetic acid requires no 'dechlor' step, can be stored for a year or more without degradation, degrades to acetic acid (vinegar) when applied, and is safe for release to waterways. The downside is it is expensive on a per gallon basis and must be handled with care.

6.0 Recommendations

To achieve 24 mgd capacity and eliminate blending in all but the most extreme events, the following actions are recommended to meet a November 1, 2024 implementation date.

1. As soon as practical - Seek budget funding in the amount of \$1.32M to upgrade the influent pump station and increase the treatment capacity of the secondary clarifiers to 24 mgd for Winter 2024/25.
2. Within 21 days, authorize Cascade Pump to prepare a submittal and procure parts for the upgrade of the primary effluent pump station (\$290,000 + tax and delivery). The purchase should be made on a sole source basis, as other vendors would require a complete pump replacement at higher cost.
3. Within 60 days, authorize Pacific Wastewater Optimization to prepare a design and submittals for the optimization of the two secondary clarifiers (\$80,000 design + \$388,000 for fabrication and delivery) Perform secondary clarifier optimization to re-rate the secondary clarifiers to 24 mgd. As an option, Pacific Wastewater Optimization can seek bids and coordinate the installation of the baffle systems.
4. Within 90 days, enter into a contract with a pump service company to remove the pumps, install the retrofit parts, perform coating, and reinstall the higher capacity pump system (\$160,000). Actual pricing expected at \$100,000. Schedule work for October 2024.
5. Within 90 days, enter into a contract for the upgrade of wire, conduit, and motor controls as outlined by Mr. Todd Beecher (Electrical Engineer) based on field investigation on April 11th.
6. Within 120 days, seek bids for the installation of the baffle systems. Schedule the work for September 2024.
7. Perform a pilot study to evaluate peracetic acid's ability to supplement disinfection during peak wet weather (flow >10mgd) events. A pilot study would require three totes, containment, and metering pump. Process control samples (ie from the inlet of the contact basin) can be collected to compare pathogen counts with and without a specified dosage of peracetic acid.

The recommended actions are expected to reduce blending to only the most extreme wet weather events. The actions are expected to eliminate the need for new flow equalization volume. The peracetic acid pilot study is intended to provide a safety factor for regulatory compliance and minimize the cost of the future UV disinfection process when it is constructed. The recommended actions leverage the existing plant infrastructure to provide the maximum capacity and minimize or eliminate future capital expenses associated with an equalization basin and/or third secondary clarifier.

Appendix A

Las Gallinas – Treatment Plant Hydraulic Analysis –
Memo Dated March 19, 2024 from Mr. Dan Goodwin, PE



MEMORANDUM

To: Jason Warner, PE – Pacific Wastewater Optimization

From: Dan Goodwin, PE – Innovative Hydraulics

CC:

Date: March 19, 2024

RE: Las Gallinas – Treatment Plant Hydraulic Profile Analysis

Innovative Hydraulics (IH) was contracted by Pacific Wastewater Optimization (PWO) to use its Visual Hydraulics[®] software to analyze portions of the Las Gallinas Valley Sanitary District's existing wastewater treatment plant. The following memo presents the background, scope of work, analysis, and recommendations made by IH for the above referenced project.

Background

The Las Gallinas Valley Sanitation District (LGVSD) wastewater treatment plant is a standard aeration/anoxic biological treatment facility with primary clarification, aeration/anoxic basins, final clarification, and chlorine disinfection for treatment. Per the documentation provided, the plant treats an average flow of 3.2 MGD with a peak wet weather flow of 24 MGD.

The analysis was commissioned by LGVSD because of ongoing hydraulics issues in certain areas of the plant during high flow events, most notably the primary and secondary clarifiers. The plant has two smaller primary clarifiers and one large primary clarifier. The effluent from the smaller primary clarifiers is conveyed to the effluent of the larger primary clarifier, where the flow from all three clarifiers is combined prior to being discharged into the primary clarifier pump station.

During high flow events, the plant cannot convey enough flow through the primary clarifiers and primary clarifier pump station, resulting in flow backing up into the primary clarifiers and submerging the effluent v-notch weirs. Part of this hydraulics evaluation includes determining the capacity of the existing primary clarifiers and the effect of the level in the primary clarifier pump station wet well on the ability of the primary clarifiers to pass the peak flow of 24 MGD.



The other area of analysis included as part of this project is the evaluation of the hydraulics associated with the final clarifiers. Final clarifier effluent flow is transmitted from each of the final clarifiers and is combined prior to being conveyed through an existing flow meter vault, which represents a significant hydraulic restriction in the secondary clarifier effluent flow. After passing through the flow meter vault the secondary clarifier effluent is conveyed to the existing chlorine contact chamber influent distribution box. LGVSD is currently in the process of modifying the layout of the secondary clarifier effluent to remove the hydraulic restriction associated with the flow meter in the secondary clarifier flow meter vault. The modifications also include an upsizing of some of the effluent piping as well as a re-routing of the flow to the chlorine contact chamber influent distribution box. The hydraulic analysis performed by IH examined both conditions to determine the hydraulic impact of the proposed secondary clarifier effluent modifications.

Scope of Work

The following Scope of Work items were established to be completed by IH and PWO as part of this project:

- Review of Drawings and Data provided
- Model inputs (flows, pipe diameters & lengths, fittings & valves, open channel characteristics, gates, weirs, etc.)
- Development of understanding of flows and flow paths
- Development of questions/information to obtain from LGVSD staff
- Assumptions (e.g., friction coefficients, starting water surface elevations) used in analysis
- Output/results from Visual Hydraulics[®] model
- Meetings (at least 2) with PWO and LGVSD staff to discuss plant operations and answer questions
- Memorandum summarizing results

Hydraulic Analysis

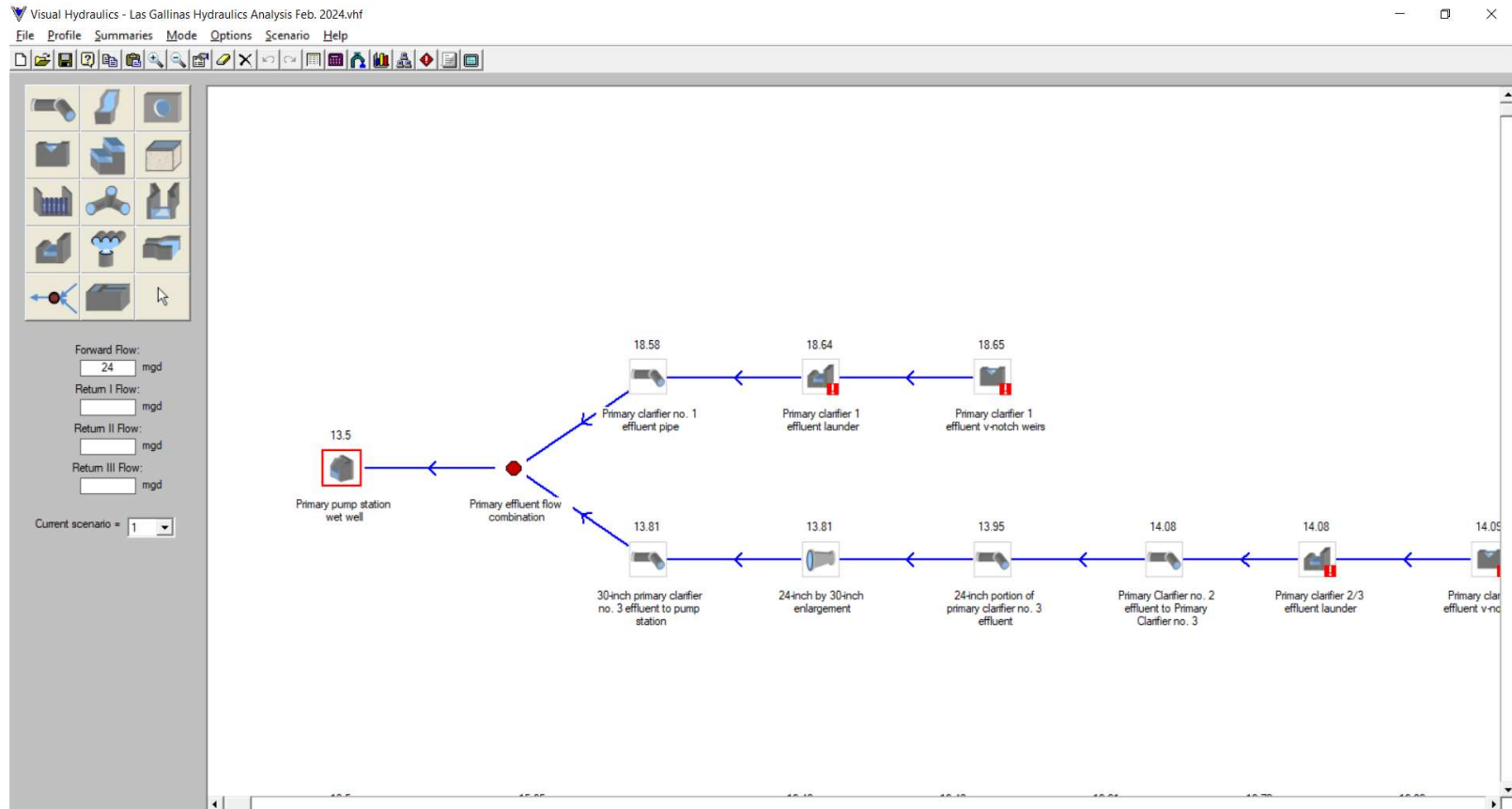
Two main hydraulic paths were considered as part of this hydraulic analysis: effluent flow from the primary clarifier system to the primary clarifier pump station and effluent flow from the secondary clarifier system to the chlorine contact chamber influent box.



Innovative Hydraulics

Software Development

The following image shows a screenshot of the Visual Hydraulics LGVSD model:





Flow from Primary Clarifiers to Primary Clarifier Pump Station

The following hydraulic elements were analyzed for the primary clarifier effluent system, starting downstream at the primary clarifier pump station and proceeding upstream to the effluent v-notch weirs of both the two smaller primary clarifiers and larger primary clarifier.

Element 1A (downstream starting point) – Primary pump station wet well

Wet well elevation, peak flow conditions = 13.5

Element 2A – Primary clarifier no. 1 effluent pipe

Diameter = 30-inch

Length = 680 feet

Roughness “C” value = 110

Fittings: Flush entrance (2), standard 90-degree elbow (2), 45-degree elbow (2), 22.5-degree elbow (2), Exit (2)

Flow through pipe = 18 MGD

Element 3A – Primary clarifier no. 1 effluent launder

Launder length = 129 feet

Launder width = 2 feet

Launder invert at discharge = 13.5

Launder slope = 0 ft/ft

Flow through launder = 9 MGD (half of flow to clarifier)

Element 4A – Primary clarifier no. 1 effluent v-notch weir

Angle of v-notch = 90 degrees

V-notch invert = 15.79

Number of notches = 386

Flow over weir = 18 MGD

Element 1B - 30-inch primary clarifier no. 3 effluent to pump station

Diameter = 30-inch

Length = 375 feet

Roughness “C” value = 110

Fittings: 45-degree elbow (2), 22.5-degree elbow (2), Exit (1)

Flow through pipe = 6 MGD

Element 2B - 24-inch by 30-inch enlargement

Angle of transition = 30 degrees



Diameter of larger pipe = 30-inch
Diameter of smaller pipe = 24-inch
Flow through transition = 6 MGD

Element 2C - 24-inch portion of primary clarifier no. 3 effluent

Diameter = 24-inch
Length = 45 feet
Roughness “C” value = 110
Fittings: Flush entrance (1)
Flow through pipe = 6 MGD

Element 2D - Primary Clarifier no. 2 effluent to Primary Clarifier no. 3

Diameter = 24-inch
Length = 37 feet
Roughness “C” value = 110
Fittings: Flush entrance (1), 45-degree elbow (2), flow past tee branch (1), Exit (1)
Flow through pipe = 3 MGD

Element 2E - Primary clarifier 2/3 effluent launder

Launder length = 110 feet
Launder width = 2 feet
Launder invert at discharge = 9.75
Launder slope = 0 ft/ft
Flow through launder = 1.5 MGD (half of flow to clarifier)

Element 2F - Primary clarifier 2/3 effluent v-notch weirs

Angle of v-notch = 90 degrees
V-notch invert = 11.67
Number of notches = 306
Flow over weir = 3 MGD

Flow from Secondary Clarifiers to Chlorine Contact Chamber Influent Box

The following hydraulic elements were analyzed for the secondary clarifier effluent system, starting downstream at the chlorine contact chamber influent box and proceeding upstream to the effluent v-notch weirs of the secondary clarifiers.

Element 3A (downstream starting point) – Chlorine Contact Chamber (CCC) Influent Box

Water elevation downstream of splitter weir, peak flow conditions = 10.5



Element 3B - CCC weir box weir

Weir type – Rectangular contracted weir
Contracted sides = 2
Weir elevation = 13.5
Weir length = 4 feet
Flow over weir = 24 MGD

Element 3C - 42-inch secondary effluent from meter vault to CCC box

Diameter = 42-inch
Length = 44 feet
Roughness “C” value = 110
Fittings: 22.5-degree elbow (2), tee, straight run to branch (1), Exit (1)
Flow through pipe = 24 MGD

Element 3D - Combining wye (36 x 42) at final clarifier no. 2 effluent

Type of tee = Combining tee, flow from branch
Main line diameter = 42-inch
Branch diameter = 36-inch
Flow from main line = 50%
Flow from branch line = 50%
Branch angle = 30 degrees
Flow through tee = 24 MGD

Element 3E - 36-inch effluent from clarifier no. 2 to wye

Diameter = 36-inch
Length = 45 feet
Roughness “C” value = 110
Fittings: 22.5-degree elbow (1), Flush entrance (1)
Flow through pipe = 12 MGD

Element 3F - 42-inch clarifier effluent to combining wye with cap

Diameter = 42-inch
Length = 43 feet
Roughness “C” value = 110
Fittings: 22.5-degree elbow (1), tee, branch to straight run (1)
Flow through pipe = 12 MGD



Element 3G - 36-inch clarifier effluent from effluent box to 36x42 wye

Diameter = 36-inch

Length = 42.5 feet

Roughness “C” value = 110

Fittings: Flush entrance (1)

Flow through pipe = 12 MGD

Element 3H - Final clarifier effluent launders

Launder length = 153 feet

Launder width = 2.5 feet

Launder invert at discharge = 17.58

Launder slope = 0.0025 ft/ft

Flow through launder = 6 MGD (half of flow to clarifier)

Element 3I - Final clarifier effluent v-notch weirs

Angle of v-notch = 90 degrees

V-notch invert = 20.29

Number of notches = 588

Flow over weir = 12 MGD

Model Results – Primary Clarifiers

During high flow events (total flow of 24 MGD), in the model it was assumed that the smaller primary clarifiers would pass 6 MGD and the larger primary clarifier would pass 18 MGD. It was assumed that flow to each secondary clarifier would be equal with each passing 12 MGD.

Per information provided by LGVSD staff, the level in the primary pump station can operate as high as 13.5 feet during wet weather events. Because both the two smaller primary clarifiers and larger primary clarifier discharge to this location, high water levels in the wet well have a direct effect on the water level in those primary clarifiers. Once the model was set up in Visual Hydraulics, it was utilized to vary the level in the primary clarifier wet well to determine the effect that level would have on the capacity of the primary clarifier effluent system. The following trials were performed by varying the level in the wet well to determine its effect on the hydraulic capacity of the system:



Table 1: Primary pump station level = 13.5 feet

Location	Invert	Downstream Water Elevation	Submerged?
Smaller primary launder invert at outlet	12.31	14.08	Yes
Smaller primary v-notch weir invert	14.23	14.09	Yes
Larger primary launder invert at outlet	16.06	18.58	Yes
Larger primary v-notch weir invert	18.35	18.81	Yes

Table 2: Primary pump station level = 12.5 feet

Location	Invert	Downstream Water Elevation	Submerged?
Smaller primary launder invert at outlet	12.31	13.08	Yes
Smaller primary v-notch weir invert	14.23	13.14	No
Larger primary launder invert at outlet	16.06	17.58	Yes
Larger primary v-notch weir invert	18.35	18.13	No

Table 3: Primary pump station level = 11.5 feet

Location	Invert	Downstream Water Elevation	Submerged?
Smaller primary launder invert at outlet	12.31	12.08	No
Smaller primary v-notch weir invert	14.23	12.91	No
Larger primary launder invert at outlet	16.06	16.58	Yes
Larger primary v-notch weir invert	18.35	18.04	No

Table 4: Primary pump station level = 10.5 feet

Location	Invert	Downstream Water Elevation	Submerged?
Smaller primary launder invert at outlet	12.31	11.08	No
Smaller primary v-notch weir invert	14.23	12.91	No
Larger primary launder invert at outlet	16.06	15.58	No
Larger primary v-notch weir invert	18.35	18.04	No

As can be seen from the previous tables, the primary clarifier launders/weirs exhibit some sort of submergence when the primary pump wet well level operates as low as 11.5 feet. At an elevation of 10.5 feet in the wet well, there is no submergence.



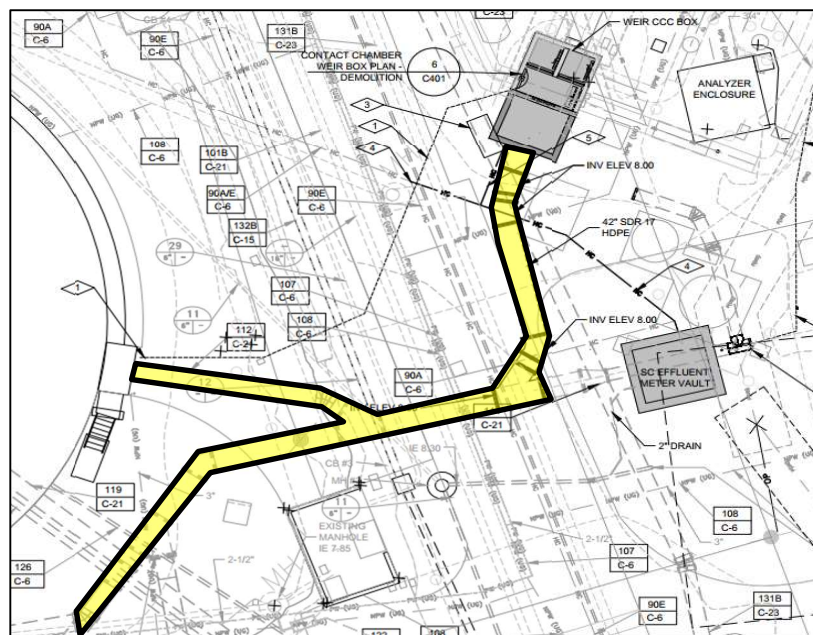
Recommendation – Primary Clarifiers

The existing effluent pipes are adequate to pass 24 MGD through the primary clarifiers as long as the level in the primary pump station wet well is maintained at a reasonable level. It is therefore recommended that the existing primary clarifier pump station pumps be upgraded to increase capacity to maintain a level in the wet well that will prevent flows from backing up into the primary clarifier launders/weirs.

Model Results – Secondary Clarifiers

During high flow events (total flow of 24 MGD), it was assumed that the flow to each secondary clarifier would be equal with each passing 12 MGD.

As was previously mentioned, LGVSD is currently in the process of modifying the layout of the secondary clarifier effluent to remove the hydraulic restriction associated with the flow meter in the secondary clarifier flow meter vault. The modifications also include an upsizing of some of the effluent piping as well as a re-routing of the flow to the chlorine contact chamber influent distribution box. This is a significant improvement in the hydraulics because the flow (up to 24 MGD) is currently passed through a pipe diameter as small as 20-inches, which is causing significant head loss issues and resulting in launder/weir submergence in the secondary clarifiers. The following figure represents this proposed revised layout (highlighted in yellow):





For the modeling of the secondary clarifiers, Innovative Hydraulics modeled both the existing layout with the flow meter vault and a revised layout that removes the secondary clarifier effluent flow meter vault and re-routes flow in a fashion that improves the hydraulics and reduces head losses in the secondary clarifier effluent system.

The following table compares the water elevation in the secondary clarifiers at various flows for both the existing layout (with the effluent flow meter vault) and the proposed modified effluent layout:

Table 5: Water Elevation With and Without Improvements

Flow Value	Water elevation downstream of v-notch weirs, existing conditions	Water elevation downstream of v-notch weirs, proposed conditions
10 MGD	18.37	18.37
15 MGD	18.59	18.59
20 MGD	20.28*	18.80
24 MGD	22.57*	18.94

* Invert elevation of v-notch weir is 20.29

As can be seen from the above table, for the existing conditions the water elevation downstream of the secondary clarifier v-notch weirs is not affected until the flow is greater than 15 MGD, and then the launders begin to submerge. At 20 MGD, the launder is fully submerged and the v-notch weir is nearly submerged. At 24 MGD, the launders and weirs are fully submerged. In comparison, the proposed modifications significantly improve the hydraulics of the system and the final clarifier effluent pipes are able to pass flow up to 24 MGD without submerging either the launders or the v-notch weirs.

Recommendation – Secondary Clarifiers

It is recommended that LGVSD proceed with the designed upgrades to the secondary clarifier effluent system that will eliminate the hydraulic restriction at the existing secondary clarifier flow meter vault. The design upgrades also include enlarging some of the effluent pipes and reducing some of the existing fittings, which also helps reduce the head loss currently experienced by the plant. If these improvements are made the model shows that the secondary effluent system can convey 24 MGD without having an effect on the secondary clarifier launder or weirs.



Innovative Hydraulics

Software Development

Sincerely,

Dan Goodwin, PE
Innovative Hydraulics

Appendix B

Secondary Clarifier Optimization Report

Memo Dated November 7th, from Mr. Jason Warner, PE
to Mr. Mike Cortez, PE, District Engineer



DATE: November 7, 2023
RE: ASSESSMENT OF OPTIMIZATION OPPORTUNITIES – SECONDARY CLARIFIERS
TO: Mike Cortez, PE, District Engineer

1.0 Summary

In 2022, the Las Gallinas Valley Sanitary District (LGVSD) completed a major upgrade of its secondary process and recycled water production facilities. With the upgrades, the District is several modest steps away from achieving 24 MGD of treatment capacity.

Achieving 24 MGD of capacity will likely eliminate primary blending as well as a tentatively planned equalization basin. The improvements made to expand clarifier capacity are also expected to reduce variability in average day effluent quality, leading to less solids to the recycled water plant. Based upon these benefits and modest costs to achieve the new nameplate capacity, it is recommended that the District apply resources to achieve the 24 mgd peak capacity for Winter 2025/26 (within 2 years).

The optimization assessment also included a review of historical performance data, drawing review, field testing, and computation fluid dynamics (CFD) modeling of the secondary clarifiers. Here is a summary of the major findings.

1. The secondary clarifiers possess capacity above their existing loading and are in excellent condition. The secondary flocculation well is good but leaves room for enhancement.
2. The historical lab data show significant variability in performance with periods of high secondary effluent solids (15 mg/L+) during average flows. Optimization would reduce the frequency and severity of high solids events at average flows and peak wet weather.
3. During the field testing, the secondary clarifiers were performing close to their theoretical best – with no settleable solids in the effluent. The observed performance was excellent.
4. The Return Activated Sludge (RAS) flow control is challenging to operate. Efforts made to increase the primary effluent pump station capacity should also include hydraulically separating the two systems and providing remote control of RAS pumping rates.
5. With optimization, the modeling results predict that the secondary clarifiers can be expected to achieve <10 mg/L of effluent suspended solids at 24 MGD.

2.0 Review of Secondary Clarifier Design Drawings

The secondary clarifiers were recently constructed and remain in new condition. They are 100 foot in diameter with a 5.0 deep flocculation well. The depth of the clarifier allows for additional flocculation volume (a deeper flocculation well) – which will be considered in the modeling/optimization effort.

At 18 mgd, the surface overflow rate is 1146 gpd/sf which is within the recommended range (980-1,230 gpd/sf – Metcalf and Eddy). During average flows, the clarifier operates near 285 gpd/sf which is below the typical range for average flows. Given that most days of the year are near this loading rate, adding a third clarifier is not recommended. The optimization recommended in this assessment will allow higher surface overflow rates above 1146 gpd/sf during the few days per year those flows occur.

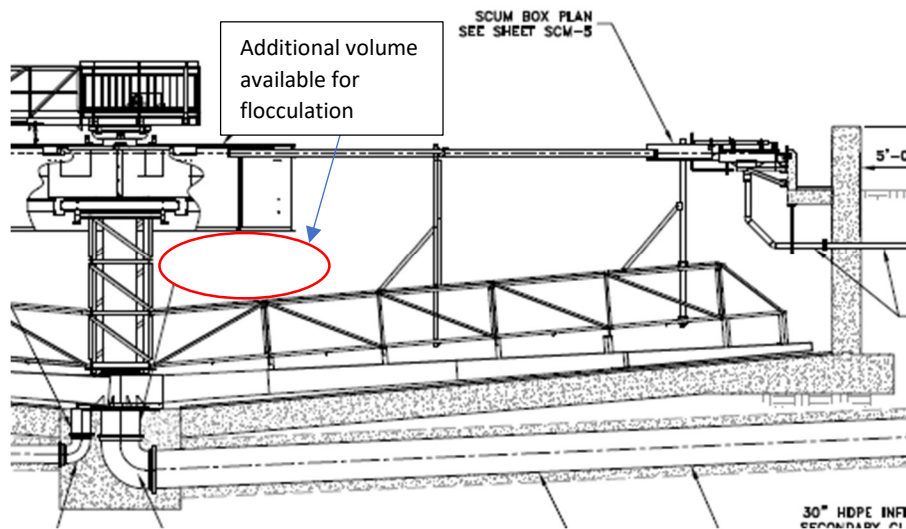


Figure 1: Partial Cross Section of Existing 100-foot Secondary Clarifier

3.0 Review of Historical Secondary Clarifier Data

Secondary clarifier performance was sound with most secondary effluent data in compliance with final effluent standards. There were several days in excess of 30 mg/L including a value at 166 mg/L (3/10/23). Performance during flows as high as 16 mgd were recorded, although the total number measured results above 12 mgd is 7 (a limited data set).

The average secondary effluent TSS was between 7-8 mg/L. While the averages are great, there is high variability. 4.2 percent of the results were equal to or greater than 20 mg/L and 1.6% present met or exceeded 30 mg/L. The anomalies both at average and elevated flows suggest the plant would benefit from optimization during average flows for compliance and lower solids to the recycled water plant. Additionally, optimization is expected to provide 28-54% improvement during peak wet weather – depending on the exact scenario.

A plot of the secondary effluent suspended solids vs. flow is shown in the following figure.

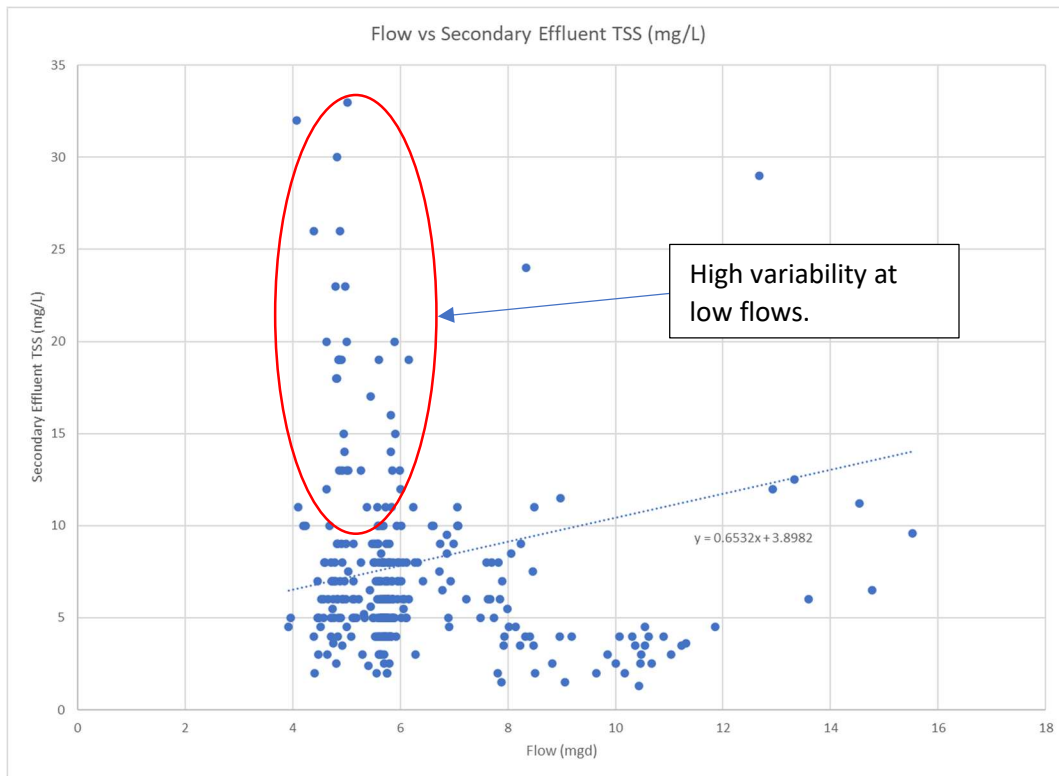


Figure 2: Secondary Effluent Suspended Solids vs Flow

The following graph is a plot of secondary effluent results vs. sludge volume index (SVI). The trendline shows a slight upward trend in effluent solids as the SVI increases. Despite the general trend, there are many points with low SVI's (100-150) with elevated effluent solids. The effluent solids variability reinforces the benefits of optimization as a safety factor for compliance during average flows.

It is also worth noting that many of the SVI results above 300 mL/g resulted in excellent effluent quality. This is because during low flows, poor settling floc particles (SVI>300 mL/g) filter water column as they settle. At high flows – those in the 12-24 MGD range, it will be critical for operations to manage SVI's to 150 or below. Before wet weather arrives in late October, operations should use a combination of higher dissolved oxygen setpoints, sodium hypochlorite to RAS, or other known strategies to achieve an SVI at or under 150. Outside of wet weather, a maximum SVI target of 300 mL/g can be used.

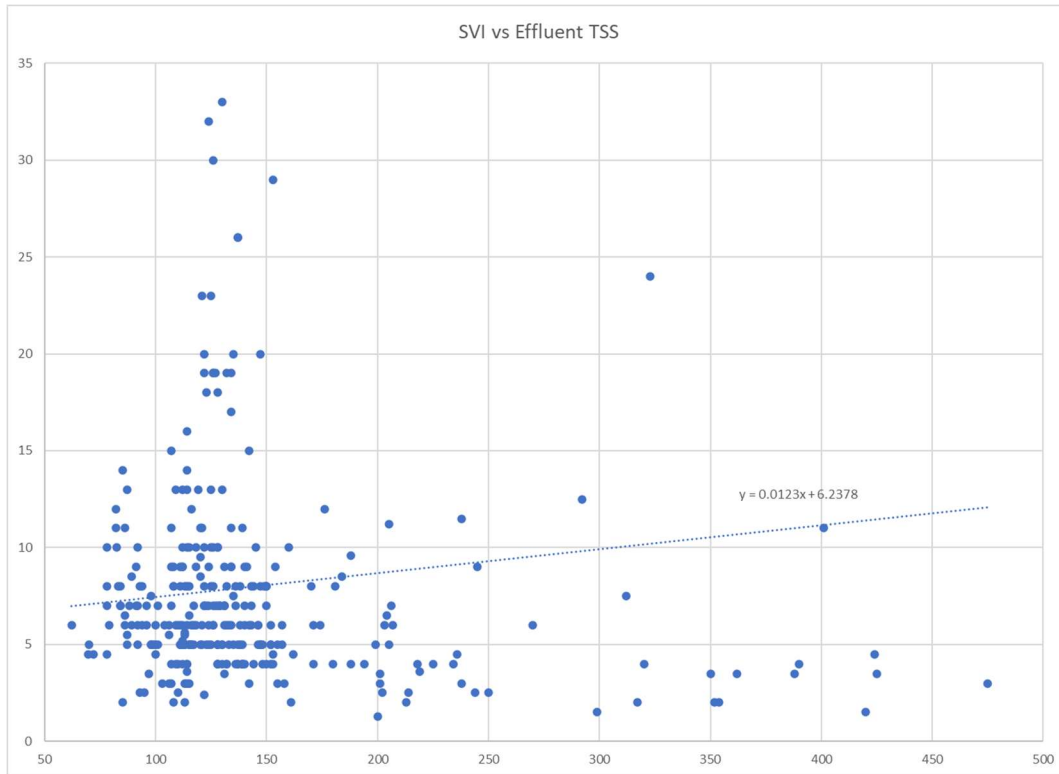


Figure 3: Secondary Effluent Suspended Solids vs SVI

4.0 Secondary Clarifier Testing and Results

Clarifier testing was performed on August 30th-31st. The testing period was marked by warm weather and light breezes. The clarifier remains in near new condition. During the testing, the clarifier was producing high-quality effluent with effluent solids well below the plant's historic average.

Three sets of tests were performed, including Dispersed Suspended Solids (DSS), Flocculated Suspended Solids (FSS), and Effluent Suspended Solids (ESS) Testing. All available data from the August 30th and 31st test dates are included in Figures 4, 5, and 6 that follow.

Dispersed Suspended Solids Testing (DSS)

Secondary Clarifier No. 1 was sampled using a 4.2-L Kemmerer sampler to determine the settling characteristics of the suspended solids. Samples were collected from the clarifier inlet, midpoint, and just inside the effluent weir as shown in the figure below.

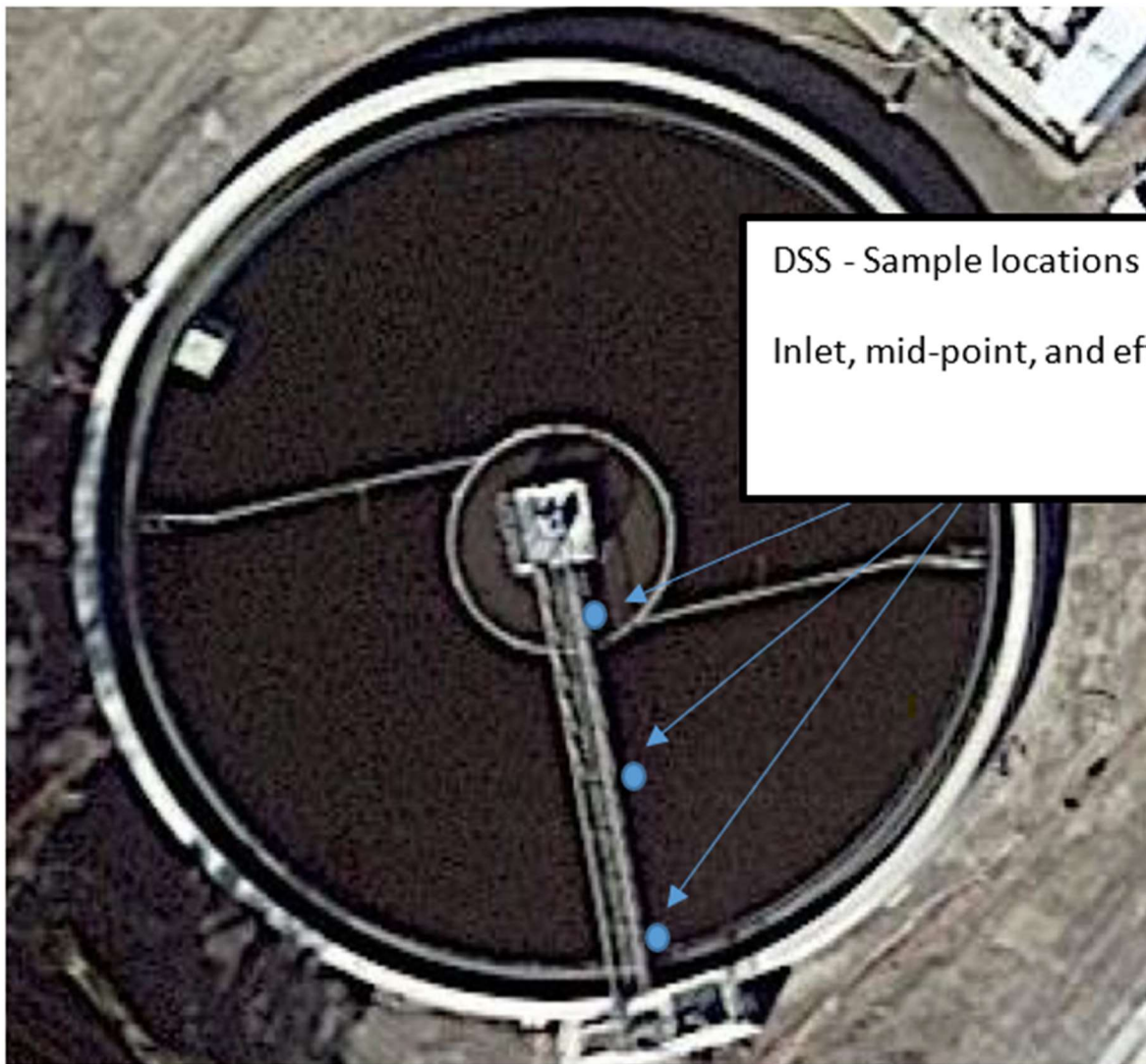


Figure 3: Dispersed Suspended Solids (DSS) Sample Locations

After collecting samples in the Kemmerer Sampler, the samples were allowed to settle for 30 minutes before withdrawing a portion of the supernatant for suspended solids testing. The solids testing results are known as Dispersed Suspended Solids (DSS) and represent the non-settleable fraction of suspended solids. The DSS results are a key input to the CFD model and help identify the upper limit of clarifier performance.

Effluent Suspended Solids (ESS) Testing

Effluent Suspended Solids (ESS) grab samples were collected from the test clarifier effluent launder approximately every hour during the testing. Effluent Suspended Solids reflect actual performance during the time of the FSS and DSS testing.

Flocculated Suspended Solids (FSS) Testing

FSS are defined as being the solids that remain in the supernatant following optimum flocculation and settling for 30 minutes. In contrast to the DSS test, which is used to assess the flocculation state in the field, the FSS test attempts to simulate the optimum degree to flocculation improves settleability. The test is performed by flocculating the sample for 30 minutes at a rotational speed of 50 rpm and then allowing the sample to settle for 30 minutes. After settling, the supernatant is sampled for a suspended solids analysis.

Clarifier Testing Results and Analysis

The DSS testing results for Secondary Clarifier No. 1 are provided in the figure below. The dispersed suspended solids are the non-settleable fraction at each measured location. The results show that settleability improves between the flocculation well and the effluent weir. The effluent DSS values of 4.5 and 3.5 mg/L represent the potential effluent quality (ie upper level of performance) from the clarifier under current operating conditions.

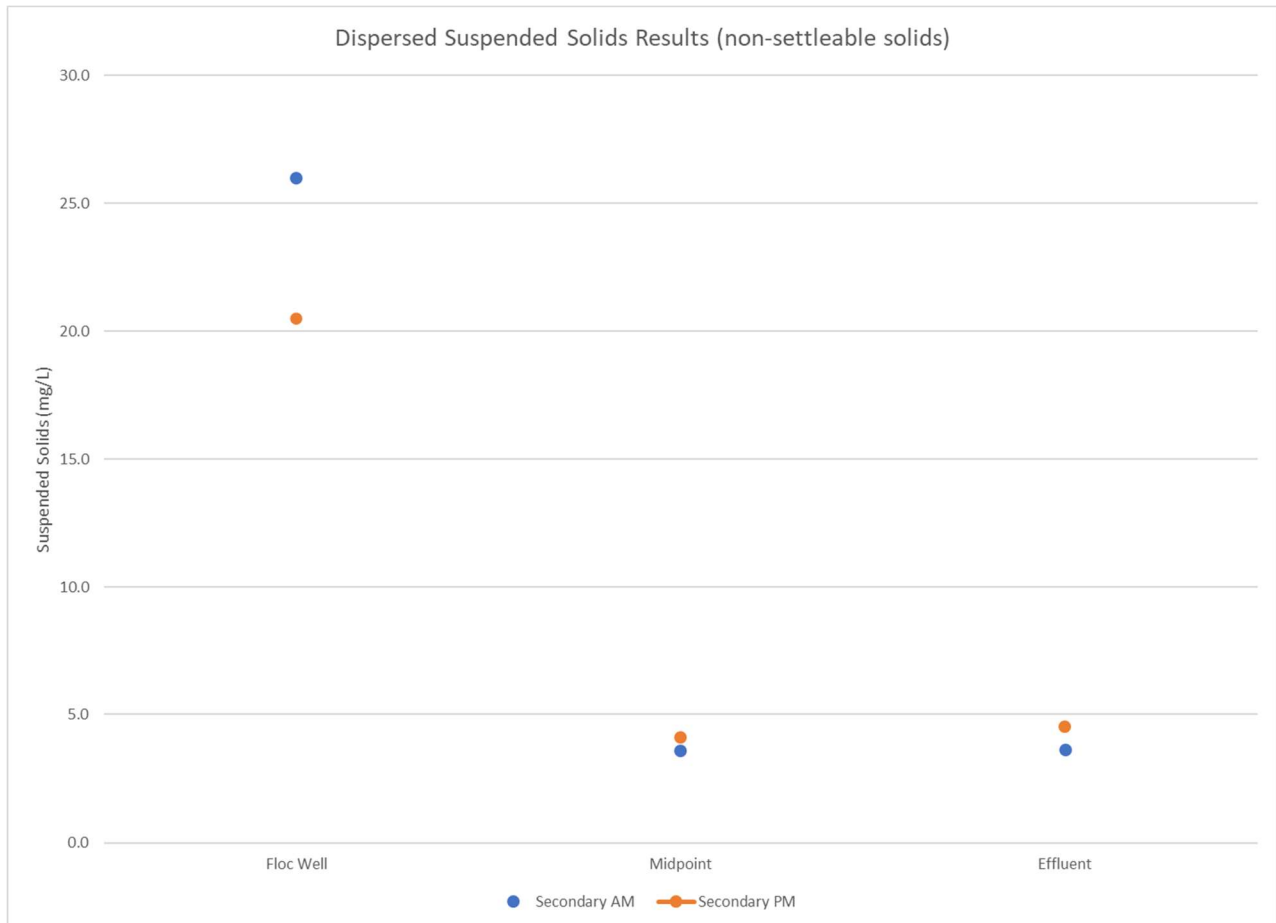


Figure 4: Dispersed Suspended Solids Results

Figure 5 compares the dispersed suspended solids results to the measured effluent solids. The figure shows that the effluent solids was nearly identical to the dispersed effluent suspended solids sample. This means that during the testing, the clarifier was operating at its theoretical best – capturing all of the settleable solids. This is a positive outcome and reflects sound performance at low surface overflow rates.

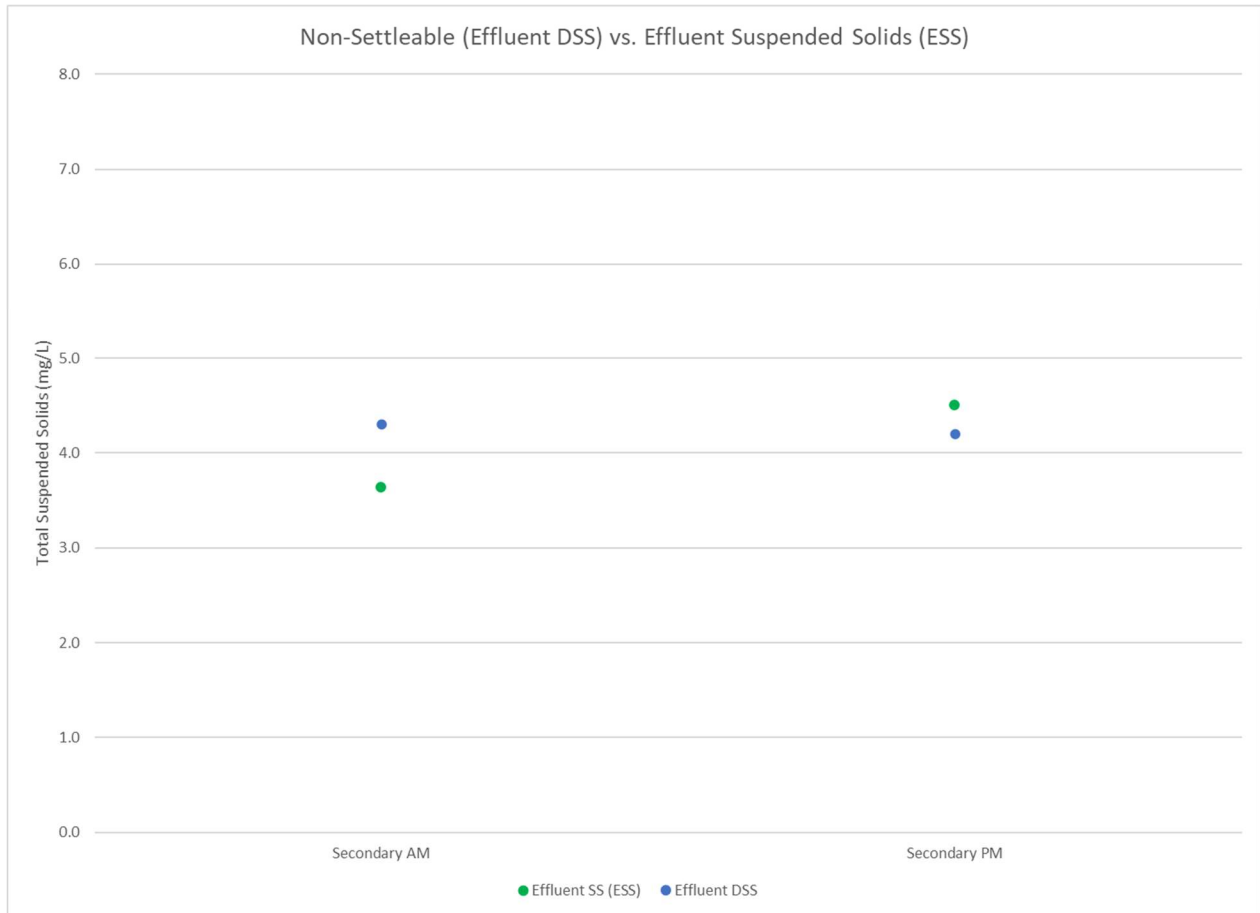


Figure 5: Effluent Dispersed Suspended Solids vs Effluent Suspended Solids

A Summary of Field Testing (Figure 6) compares the dispersed settling results (gold, light blue) with the flocculated samples (red and grey). The results do not indicate a problem with existing flocculation, although the modeling results show an enhanced flocculation well will lead to significant improvements in effluent quality (28-54%). The data reflects excellent performance of the clarifier during the testing.

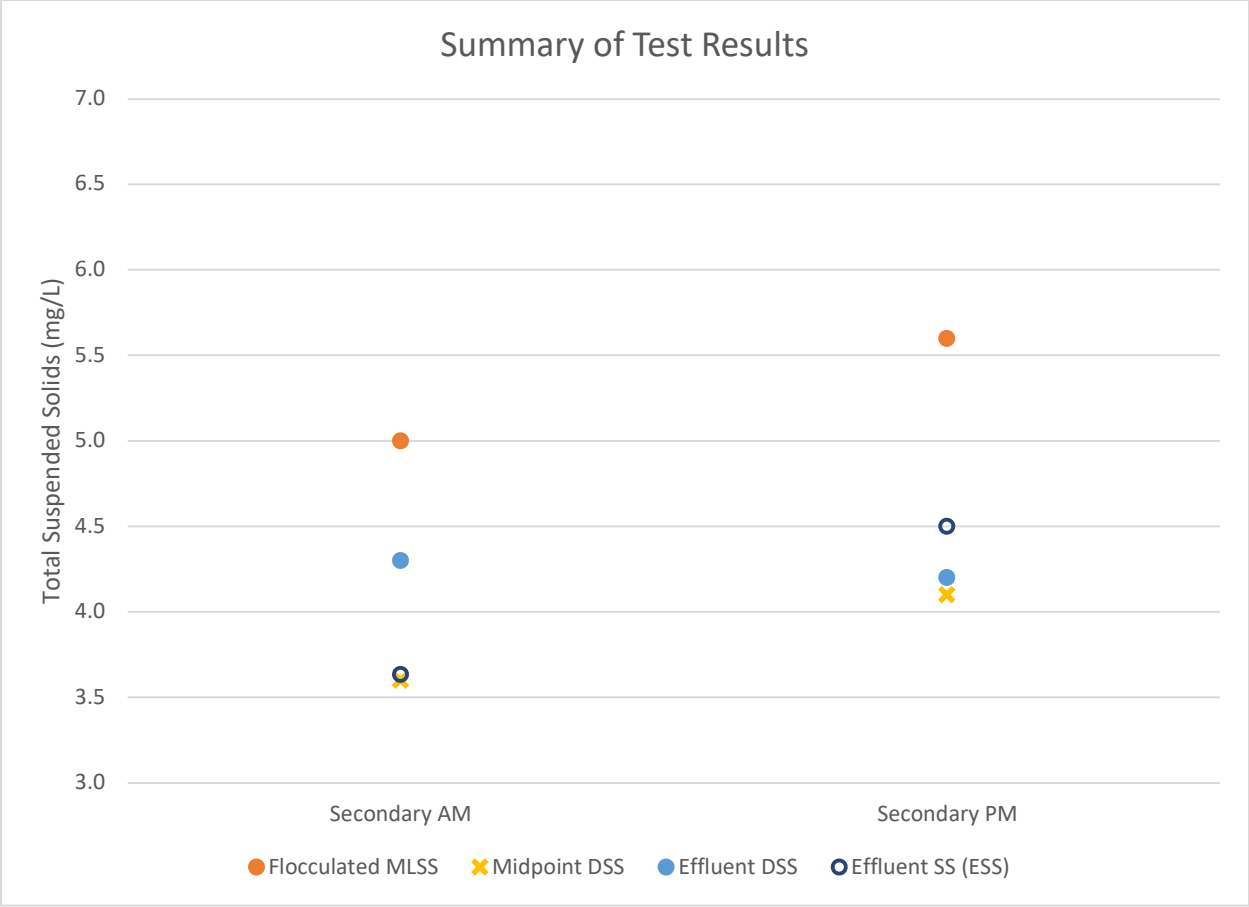


Figure 6: Summary of Test Results

The results show the secondary clarifiers are performing well at low surface overflow rates. The effluent solids are nearly identical to the dispersed effluent solids, indicating that little or no settleable solids are leaving the clarifier.

Due to the low overflow rates during the testing, the CFD model will be used to evaluate the clarifier performance at higher flows.

5.0 Secondary Clarifier Optimization –CFD Modeling Results

The optimization evaluation included computation fluid dynamics (CFD) modeling of the Las Gallinas Secondary Clarifiers. The clarifier model was built using a software program called '2Dc', which was originally commissioned by the US EPA to allow for greater understanding of internal clarifier hydraulics. The results show that effluent quality improves by 28-54% when the flocculation well is deepened using a Flo-Clip Baffle. The modeled baffle is similar to the one shown in the following photo.

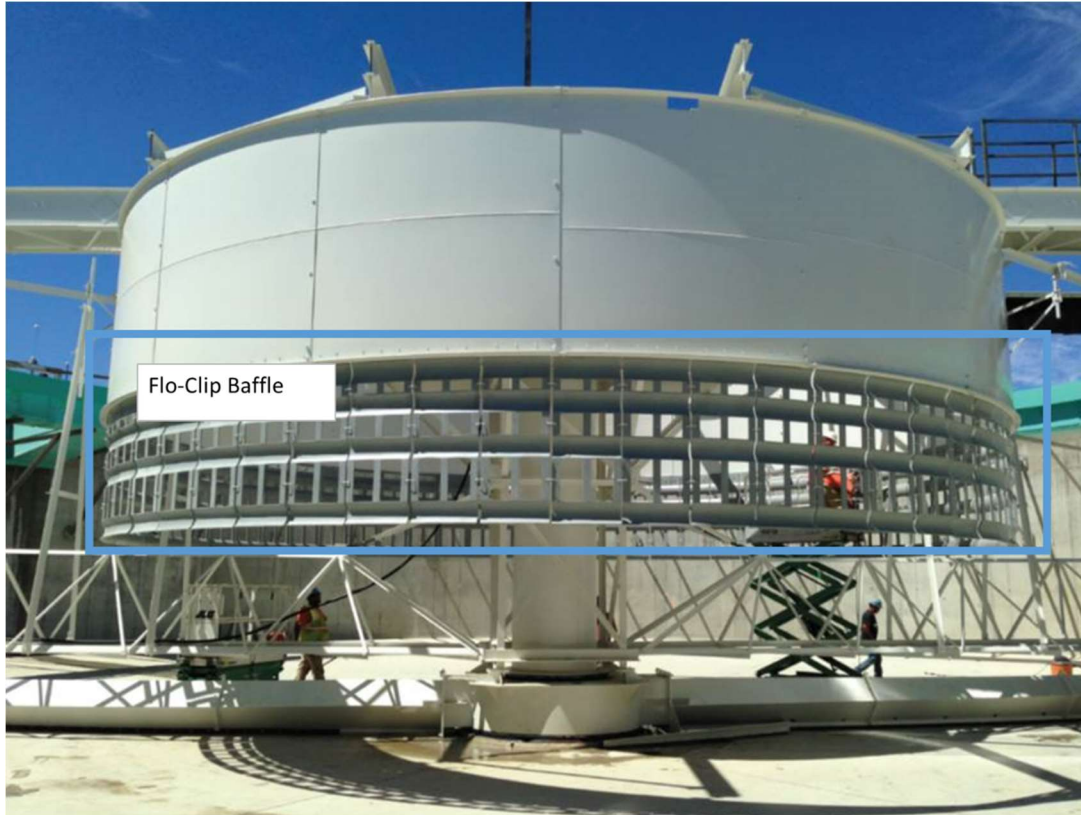
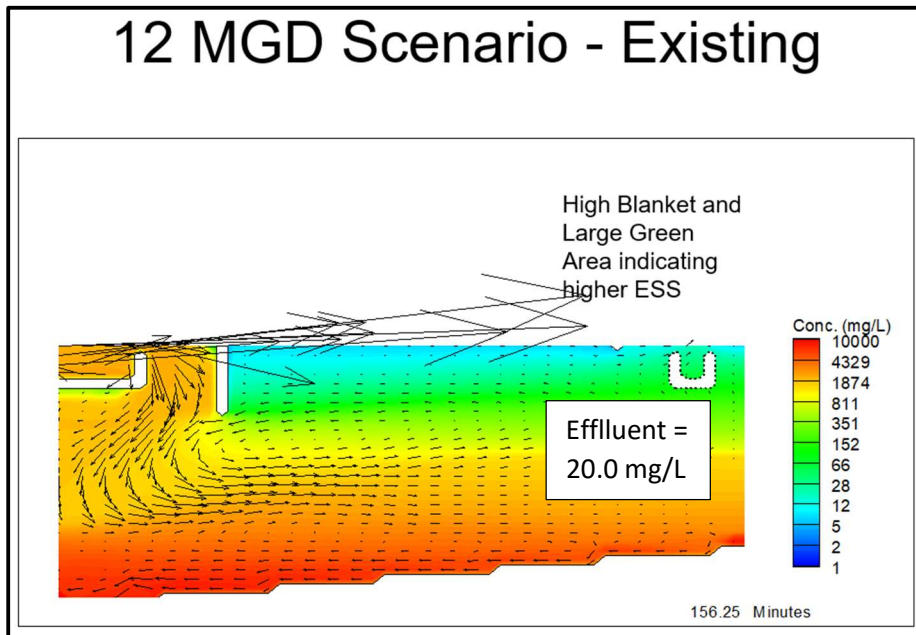


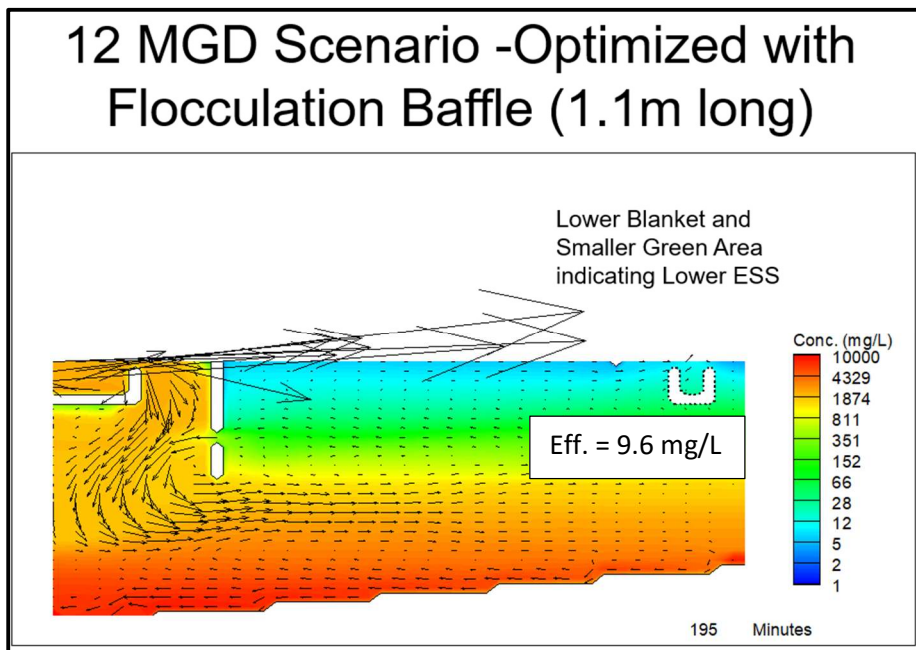
Figure 5: Flo-Clip Baffle installation at the City of Vacaville

The goal of the modeling effort was to evaluate the potential to increase the capacity of the existing clarifiers from 18 mgd to 24 mgd (or from 9 to 12 mgd per clarifier). Other additional scenarios were run as well. These include an 8 mgd/clarifier scenario (simulating predicted effluent quality from a third secondary clarifier) and an additional run with elevated SVI's. The elevated SVI scenario highlights the sensitivity of the clarifier capacity to SVI's. The elevated scenario shows that at an SVI of 165 (83rd percentile SVI's) and flow of 24 mgd, the unmodified clarifier will produce effluent suspended solids of 43 mg/L while the optimized clarifier will produce 31 mg/L. The modeling shows that with optimization, two clarifiers can be expected to provide 24 mgd of capacity (with 75th percentile SVI's) while delivering secondary effluent suspended solids below 10 mg/L.

The '12 MGD – existing clarifier run' (total plant flow of 24 MGD) shows that the predicted effluent suspended solids is 20.0 mg/L with the existing clarifiers.



With optimization the effluent quality is predicted to improve to 9.6 mg/L or less than half of the unimproved state. The model output is sensitive to the SVI. For example, when the SVI is increased from the 75th percentile to the 83rd, the unimproved vs. optimized effluent quality become 43 mg/L vs. 31 mg/L. Optimization provides a significant factor of safety for regulatory compliance under all modeled scenarios.



Figures 6 and 7: Comparison of 12 MGD – Existing vs. Optimized CFD Results

To build understanding of the impacts of optimization, several additional scenarios were modeled beyond the original scope, including an 8 MGD/Clarifier scenario. 8 MGD per clarifier reflects the loading if 24 MGD were split across three clarifiers. The results show that a third clarifier does not provide effluent quality benefits over two clarifiers with optimization.

A Summary of all modeled scenarios is shown in the table below:

LGVSD Secondary Clarifiers - Summary of Model Run Results

<i>Scenario</i>	<i>Flow/Clarifier (MGD)</i>	<i>SVI (mL/g) ^a</i>	<i>MLSS (mg/L)</i>	<i>Optimized</i>	<i>Effluent TSS (mg/L)</i>	<i>Improve. (%)</i>
1	9	146	2115	No	13.0	
2	9	146	2115	Yes	7.7	41%
3	8	146	2115	No	11.0	
4	12	146	2115	No	20.0	
5	12	146	2115	Yes	9.2	54%
6	12	165	2115	No	43.0	
7	12	165	2115	Yes	31.0	28%

^a SVI of 146 corresponds to 75th percentile

^a SVI of 165 corresponds to the 83rd percentile

The analysis emphasizes the quality of the clarifier infrastructure installed during the 2018 Plant Upgrade Project. With modest enhancements, the existing infrastructure can be expanded to provide 24 mgd of capacity with two units in service. Eliminating an equalization basin will likely save in excess of \$12M (@2MG) as well as ongoing maintenance and rehabilitation expenses.

6.0 Optimization Recommendations – Secondary Clarifiers

The 2018 Secondary Treatment Expansion positions the District for sound operation for the next 50 years. The new clarifiers are large and well designed. The District is also well ahead of the nutrient treatment regulations for the San Francisco Bay. Given the infrastructure in place, the District is only a few steps away from increasing the secondary capacity to 24 mgd with its existing secondary train. 24 mgd will likely lead to the elimination of blending events – except for the most extreme wet weather events.

Given the benefits and modest costs, Pacific Wastewater Optimization (PWO) recommends a strategy to achieve 24 MGD of secondary capacity. The following actions are recommended. While they are presented in order of priority, it is recommended that they are pursued simultaneously to allow elimination of blending prior to the next NPDES permit renewal (September 2025).

1. ***Final Effluent Piping Capacity*** - Increase the effluent piping capacity to 24 MGD+ (Construction in Progress).
2. ***Primary Effluent Capacity*** - Increase the primary effluent piping/pump station capacity to 24 MGD (firm). The pump station capacity improvements should be designed to lower the grade line of the existing primary effluent piping – to allow free flow from the primary clarifiers.

An engineering analysis should be performed to evaluate the alternatives of increasing the size of the existing 5 pumps or adding additional pumping adjacent to the existing wetwell. It is recommended that the RAS pumping be hydraulically isolated (i.e. the RAS and Primary Effluent flows should not influence each other). This will allow precise control of RAS rates and limit backwater impacts on the primaries from the secondary clarifiers. Hydraulic isolation can be accomplished by installing a divide between the existing five pumps or re-routing the RAS pipeline to a dedicated wetwell adjacent to the existing.

3. **Secondary Clarifier Optimization** - Optimize the existing secondary clarifiers to allow 24 MGD of treatment capacity. Optimization provides greater water quality benefits than a third clarifier, with significantly less expense. Install flocculation baffles on both secondary clarifiers. Eliminate the equalization basin from the Capital Budget. (\$480k)

Recommendations 1-3 above will eliminate the need for equalization and likely eliminate primary blending events. The improvements made to expand peak capacity will provide benefits to effluent quality year-round. The recommendation will amplify the benefits of the recent Secondary Treatment Expansion Infrastructure.

Thank you for the opportunity to serve you and the LGVSD Team. I will reach out to answer any questions and coordinate any next steps.

Sincerely,

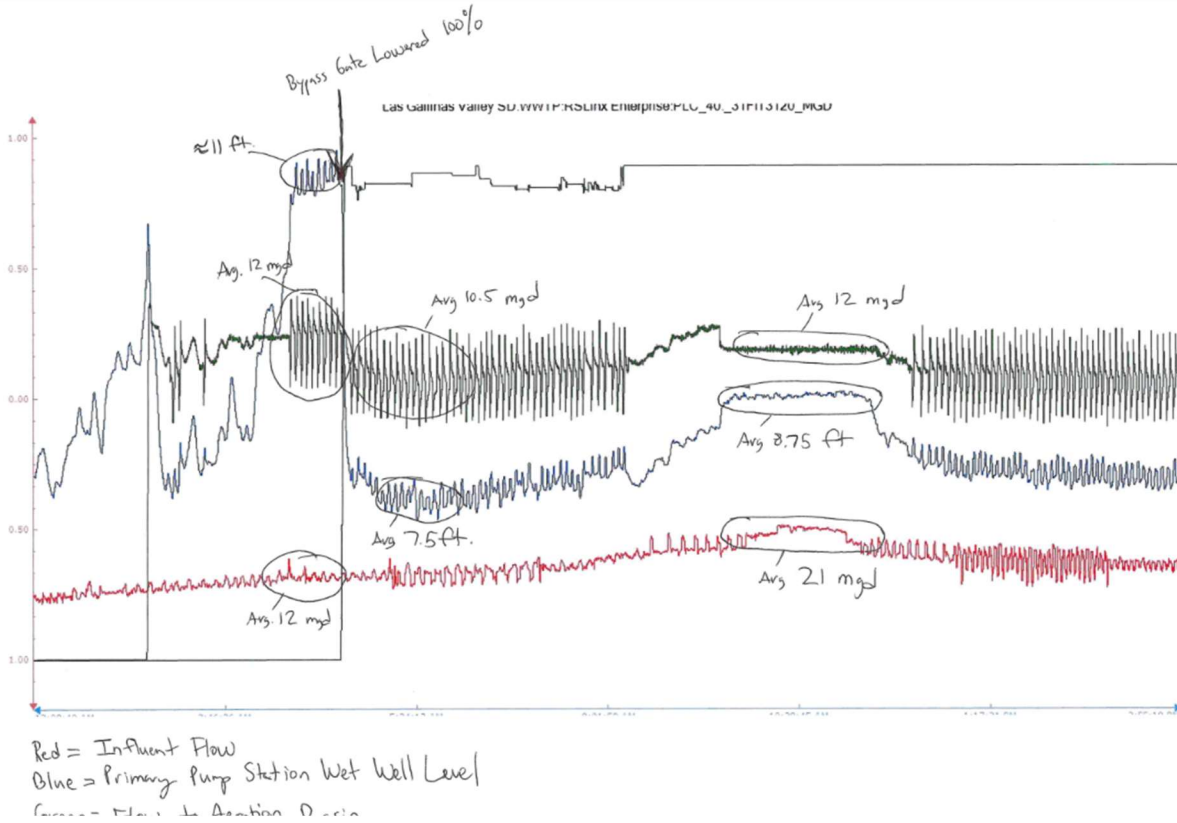
A handwritten signature in blue ink, appearing to read "Jason Warner". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Jason Warner, PE (No. 63190)

Project Manager

Appendix C

Las Gallinas Valley Sanitary District - SCADA Data from Major Storm 2/4/24





Item Number 3E

GM Review CP

Agenda Summary Report

To: Board of Directors
From: Michael P. Cortez, PE, District Engineer
 (415) 526-1518; mcortez@lqvsd.org
Mtg. Date: May 16, 2024
Re: Award of Design Contract to GHD for John Duckett Pump Station Electrical Upgrades and Terra Linda Trunk Sewer Creek Crossing Improvements
Item Type: Consent Action Information Other
Standard Contract: Yes No (See attached) Not Applicable

STAFF RECOMMENDATION

Board to approve the award of a design contract with GHD for the combined John Duckett Pump Station Electrical Upgrades and Terra Linda Trunk Sewer Creek Crossing Replacement projects in the amount of \$429,711.

BACKGROUND

In response to District staff request, GHD submitted a proposal for the following:

1. John Duckett Pump Station (JDPS) Electrical Upgrades – For the replacement of existing electrical distribution system consisting of service entrance switchboard, motor control center, programmable logic controller, and variable speed drives with newer equipment to increase reliability, functionality, and maintainability of the existing pump station. Most of the existing electrical components at the pump station were installed in the mid-1980s or upgraded in the early 2000s.
2. Terra Linda Trunk Sewer (TLTS) Creek Crossing Replacement – For the replacement of the exposed 18” gravity influent line across Gallinas Creek with a new pipeline with proper encasement, cover, and bedding to minimize the potential of sanitary sewer overflows (SSOs). The scope of work includes environmental assessment and CEQA permitting.

District staff reviewed GHD’s proposal and deemed the fee estimate reasonable. The fee proposal in the amount of \$429,711 is within the budget allocated for FY 2023-24.

Brief Project History:

The original scope of work for the JDPS portion of the project included the construction of a new access road and relocation of the overall pump station consisting of the electrical building and wet well to higher ground adjacent to their current location. The objective is to meet the maximum predicted sea level rise elevation by the year 2100. However, during predesign by GHD in 2015, it was determined that a levee or sea wall-type structure between the creek and pump station would be sufficient for flood protection. This enabled the District to reprioritize needs and defer construction since such type of flood control structures may be constructed at any time in the future when the need is eminent without significantly impacting pump station functionality.



In addition, the 2022 hydraulic model developed by Hazen & Sawyer indicates that the existing pump station has adequate pumping capacity to meet the future demands of all proposed land development projects outlined in both City of San Rafael and County of Marin Housing Elements that are within the pump station tributary area. This eliminated the immediate need to increase pumping capacity and provided an opportunity for the District to reprioritize overall collection system needs such as the replacement of the exposed 18" trunk sewer crossing along Gallinas Creek immediately upstream of the existing JDPS wet well.

The 7-year CIP Budget approved by the Board for FY 2023-24 for the John Duckett PS & HWY 101 Terra Linda Trunk Sewer Design has a budget of approximately \$1.56M. The reduced scope of pump station design work and the deletion of approximately 3,500 LF of trunk sewer improvements from the project resulted in a budget reduction of approximately \$1M. Original project components such as the design and construction of Terra Linda Trunk Sewer Improvements and lining of the trunk sewer section under Hwy 101 will be included as separate future CIP projects in the 7-year CIP plan for Board consideration and approval in June 2024.

PREVIOUS BOARD ACTION

The Board authorized the award of a design contract to GHD in 2013 for the relocation of the John Duckett Pump Station and replacement of the entire length of the Terra Linda Trunk Sewer Creek Crossing.

ENVIRONMENTAL REVIEW

CEQA Initial Study/Mitigated Negative Declaration, which is included in the GHD scope of work.

FISCAL IMPACT

Not to exceed \$429,711. The 2023/2024 Capital Budget includes adequate funding for this contract.

Our ref: 8410618

08 April 2024

Mike Cortez
District Engineer
Las Gallinas Valley Sanitary District
101 Lucas Valley Road,
San Rafael, CA 94903

RE: Proposal for Terra Linda Trunk Sewer and John Duckett Pump Station Design

Dear Mr. Cortez,

GHD Inc. is pleased to submit this proposal and scope of work for the preliminary design of the Terra Linda Trunk Sewer and John Duckett Pump Station Design.

The project will be led locally by our proposed Project Manager, Greg Felter, P.E., based in GHD's Concord office and Project Director, Casey Raines, P.E., based in GHD's Irvine office. Greg has over fifteen (15) years of experience in the water sector and is an experienced project manager. Greg will serve as the primary point of contact for the Las Gallinas Valley Sanitary District (District) and will manage the design team to meet District's expectations in terms of quality, budget, and schedule. Greg will be supported by Casey, who brings over 17 years of experience in the water sector. Casey will provide quality and project management support. Matt Winkelman will remain involved with the project to lead QA/QC efforts, working with Greg and Casey and the various discipline reviewers for the project.

GHD's technical expert Rick Guggiana will lead the electrical design as the Senior Electrical Engineer. With over thirty-four (34) years of experience in the water sector and expertise in sanitary sewer and lift station design, Rick has worked on various pump station projects (references can be provided upon request). Rick will be supported by Becca Keating, Staff Electrical Engineer. Rick has also been involved with this project since the beginning.

The environmental portion of the project will be led by Andrea Hilton as the Environmental Planning Technical Director. With over twenty-one (21) years of experience in the environmental sector, Andrea has worked on various similar pipeline projects (references can be provided upon request).

The following sections summarize the project understanding and proposed scope of work, fee, and schedule.

1. Background & Project Understanding

The purpose of the project has evolved over time. At an earlier stage of project development, a significant portion of the Terra Linda Trunk Sewer (TLTS) would be replaced, to address hydraulic capacity and pipeline vulnerability where the pipeline is exposed in the bottom of Gallinas Creek upstream of the John Duckett Pump Station (JDPS). Pipeline replacement would involve tunneling of a new pipeline at a greater depth under both Highway 101 and Gallinas Creek in order to meet permitting and environmental considerations from Caltrans and various

permitting agencies. In conjunction with this, the pump station would require modification to both accommodate a deeper incoming trunk sewer and incorporate various improvements for serviceability and capacity.

The project scope has evolved over time, in part to address evolving District priorities and project considerations. The scope of services provided herein is based on the current project objectives as defined below for the trunk sewer and pump station:

1. Reduce the risk of sanitary sewer overflows (SSOs) that could enter Gallinas Creek;
2. Replace the portion of the trunk sewer crossing at Gallinas Creek with a new pipe at the same invert elevation. This new segment of the trunk sewer will be designed with intent to improve sediment flow within the creek and to lessen the pipeline's vulnerability to potential impacts and add appropriate encasement for the pipe to reduce its likelihood of failure and improve overall resilience. Note that by not increasing the depth of the pipe and providing a new pipeline encasement that the pipe structure will remain exposed in the bottom of the creek. This approach is expected to reduce the risk of SSO that could enter Gallinas Creek, but to a lesser extent compared to constructing a new pipeline at a greater depth below the bottom of the creek;
3. Replace the existing electrical distribution equipment, including service entrance switchboard, motor control center, and variable speed drives. The existing controls section, which houses the existing programmable logic controller (PLC) and associated items, will be relocated to suit any adjustments necessary due to the layout of the new electrical distribution equipment. The existing PLC modules will be replaced to provide current functionality with newer equipment to increase reliability and maintainability. Other improvements to the pump station that were included in previous design concepts, including, but not limited to the following are not part of the planned pump station design: relocation and deepening of the wet well, pumps, and associated mechanical components; sizing and/or relocation of the onsite generator; odor control and/or mitigation; expansion of pump station site improvements or access; and site security.

The project will begin with a conceptual design submittal in which a conceptual approach to achieve the three objectives above is proposed and the detailed design approach is agreed upon with the District.

Based on discussion with District staff and feedback received from the District Board, the major components of the work are as follows:

- Detailed design of the electrical upgrades to JDPS.
- Detailed design of the pipeline conveying the flow across Gallinas Creek to the JDPS and environmental analysis of the crossing.
- Completion of the environmental documentation and the associated technical studies needed to complete the evaluation of impacts under the California Environmental Quality Act (CEQA), including identification of recommended mitigation measures. GHD environmental staff will coordinate with design staff to develop an integrated approach to advancing the project and completing required environmental permits that minimize potential environmental impacts.

2. Scope of Work

Based on GHD's project understanding, the scope of design services is summarized below. Additional scope can be provided at a negotiated fee.

Task 1. Project Coordination

This task is for overall project management, team coordination, progress meetings, project administration, health and safety, and related managerial items. It also includes quality assurance and quality control (QA/QC), and project invoicing.

- 1.1 Project Management:** GHD will coordinate with team members and stakeholders during the design, including District staff. Discussions and meetings will be documented with meeting notes or via email. GHD will also maintain regular contact with District staff via phone calls and email to make sure communication remains open and consistent during this phase of the project. GHD will submit monthly invoices and progress reports to the District for our efforts on the Project.
- 1.2 Quality Management and Meetings:** GHD will prepare a Project Quality Plan (PQP) for the detailed design phase of the Project. The PQP communicates the QA/QC procedures and identifies the documentation required at each internal and external submittal. The PQP will serve as a living document to guide quality management throughout the Project.

GHD's scope and budget includes the following meetings:

- One, 1-hour, virtual, kick-off meeting with District to review the scope of services, schedule, and project approach.
- One, 1-hour, virtual meeting to review the Phase One deliverables
- Three, 1-hour, virtual, meetings to review 60%, 90% and Final design packages.
- Two, 4-hour, site visits to observe and document existing conditions, as well as discuss constructability issues.

Deliverables:

- Project Quality Plan (PQP) (electronic PDF)
- Meeting agendas, minutes, and action items (electronic PDF)

Assumptions:

- Design (Tasks 2 through 6) will be completed within 22 weeks of notice to proceed (NTP). Project management effort for Bid and Construction Support are accounted for in Tasks 6 and 7 respectively.
- GHD has budgeted for four (4) staff to attend the kick-off meeting.
- GHD has budgeted for one (1) staff to attend each of the two (2) site visits.
- GHD has budgeted for three (3) staff to attend the three (3) design review meetings.

Task 2. Conceptual Design

GHD will prepare a conceptual design submittal which will identify the improvements necessary to JDPS and immediate upstream portion of the TLTS at its Gallinas Creek crossing. The design will review all available data and previous designs and provide an updated design with additional detail. The intent at this stage is to provide the District with a conceptual design that can be used for discussion and agreement of the detailed design scope. The conceptual design will propose an alignment for the trunk sewer. The conceptual design will also

identify whether the segment crossing of Gallinas Creek should be replaced and lowered or rehabilitated and additional armoring constructed on the segment.

- 2.1. Drawings:** Drawings will be developed to depict a schematic of the proposed improvements to JDPS and the proposed pipeline alignment and construction method.

The conceptual design will not include any details or specifications and the drawings produced will be used for discussion. No construction cost estimate will be prepared at this stage.

Task 3. Environmental Technical Studies

Environmental resource studies will be required to support CEQA and project permitting, specifically a delineation of wetlands and jurisdictional waters, special status plant surveys, a biological (wildlife) technical memorandum, and a cultural resource investigation. The cultural resources investigation will be prepared by qualified sub-consultant Sonoma State University – Anthropological Studies Center. Environmental studies will be completed concurrent with the development of the conceptual design.

Aquatic Resources Delineation Report

Wetlands and other waters of the U.S./state will be mapped at project work areas, including access roads and staging areas. The wetland delineation will follow USACE Wetlands Delineation Manual (USACE 1987) and Regional Supplement to the USACE Wetland Delineation Manual: Western Mountains, Valleys and Coast Region (USACE 2010). Mapping will include the use of a high-accuracy GPS device. The Aquatic Resources Delineation Report will address all mapped three-parameter wetlands, and list anticipated jurisdictional status (i.e., federally or state jurisdictional). Maps and a final report will be prepared according to USACE standards.

Botanical Surveys and Sensitive Natural Community Technical Memorandum

Preliminary investigations regarding the potential for sensitive plant species to occur within the proposed project areas will include compiling data found in a nine-quad record search of the California Natural Diversity Database/Biogeographic Information and Observation System (CNDDDB/BIOS), the California Native Plant Society (CNPS) Rare Plant Inventory, and a list of federal endangered and threatened species obtained from the USFWS Information for Planning and Consultation (IPaC) tool. A qualified botanist will conduct two seasonally appropriate special status plant and non-wetland Sensitive Natural Communities (SNC) survey using the current (2018) CDFW Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities. The survey will consist of walking the project area during appropriate blooming periods to locate special status plant species identified through database searches. Potential Sensitive Natural Communities onsite will be documented in the field and classified at the alliance level according to the Manual of California Vegetation (Sawyer et al., 2009) using the Rapid Assessment method. Rare plants and SNCs (if present) will be mapped using a high-accuracy (sub-meter) GPS device. A report will detail the database search, survey results, and provide recommendations to avoid and minimize impacts to special status plant species.

Biological Resource Report (Wildlife)

GHD will complete a biological evaluation of potential habitat for special status wildlife species. A single site visit will occur. The report will be prepared so it may be used to effectively inform federal and state agencies, including the U.S. Army Corps of Engineers (USACE), USFWS, and CDFW, and will be appropriate for CEQA analysis. The Report will include:

- Description of existing habitat and quality
- Mapped habitat
- Captioned photographs
- Potential to occur table of special status species based on a nine-quadrant United States Geological Survey (USGS) quadrant database search
- Recommend construction avoidance and minimization measures

- Documentation of any species that may be adversely impacted or affected by the project, if any

Cultural Resources Investigation

Sonoma State University (SSU) will conduct a review of records, maps, and documents on file at the Northwest Information Center (NWIC) of the California Historical Resources Information System, Sonoma State University, and publications and maps at the Anthropological Studies Center. SSU will also contact the Native American Heritage Commission (NAHC) for a review of the Sacred Lands File and for contact information for the appropriate tribal communities; and contact listed communities and individuals regarding the archaeological sensitivity of the project area. The investigation will include an archaeological field survey of the above referenced location to identify and document cultural resources within the project area. A cultural resources study report documenting the results will be prepared. Up to one new resource will be recorded.

Deliverables:

- Draft and Final Aquatic Resources Delineation Report
- Draft and Final Botanical and Sensitive Natural Community Technical Memorandum
- Draft and Final Biological Resource Report
- Draft and Final Cultural Resources Report

Assumptions:

- AB 52 Consultation will be led by the District.
- For purposes of budget efficiency, field work for the aquatic resources delineation will occur concurrently with one of the special status plant surveys.
- Up to one new cultural resource will be recorded. Additional resources to be recorded will require an additional cost.

Task 4. CEQA Compliance

GHD anticipates that the project will require completion of an Initial Study/Proposed Mitigated Negative Declaration (IS/MND) to comply with CEQA requirements. The CEQA IS/MND will be prepared following completion of the conceptual design.

Kickoff Meeting and Project Description

GHD's project manager and environmental lead will attend a kick-off meeting with the District to discuss the project, data needs, and timeline for completion. A preliminary project description will be prepared which will serve as the basis for the environmental evaluation. The GHD environmental team will work with the District and GHD team to develop the project description. The project description will provide a clear and concise description of the project including project objectives, project components, timing and methods of installation, and project operation and maintenance activities. GHD will develop the project description following completion of the conceptual design and the determination of the selected alternative. The preliminary project description will be finalized and submitted to District staff for review and approval. When District comments are received, GHD will prepare a final Project Description.

Administrative Draft Initial Study/Proposed Mitigated Negative Declaration (MND)

GHD will prepare an administrative draft Initial Study/Proposed MND for review by the District. The document will address CEQA requirements to the degree necessary for an adequate evaluation of environmental impacts. The IS/MND will be prepared, noticed, and circulated in accordance with CEQA guidelines and requirements. It will consist of an Initial Study that would include an appropriate environmental checklist, graphics, and essential, feasible mitigation measures. The analyses, findings, and mitigations and recommendations from the technical studies will be incorporated into this document, as appropriate.

It should be noted that, through the course of research and analysis, if any potential environmental impacts are found to be significant and unavoidable, even with the application of all feasible mitigation measures, GHD will recommend the preparation of an environmental impact report (EIR) pursuant to CEQA. Should this prove to be the case, GHD will provide a revised scope discussing EIR services.

The Administrative Draft Initial Study /Proposed MND will be submitted to the District for review, and the Project Manager will attend a review meeting with the District staff to discuss comments.

Screen Check Draft Initial Study/Proposed MND

Following receipt of District comments, the Initial Study/Proposed MND will be revised and submitted to the District electronically for a final check prior to publication.

Notice of Intent to Adopt, Notice of Completion, Mailing List

A Notice of Intent to Adopt a Negative Declaration (NOI), Notice of Completion (NOC) for the State Clearinghouse, and a draft Mailing (Distribution) List will be prepared and submitted for District review in anticipation of publication.

Public Draft Initial Study/Proposed MND

Following approval of the Check Draft by the District, GHD will publish and circulate the Initial Study/Proposed MND for the required 30-day public review period. GHD will coordinate with District staff to ensure the NOI is filed with the Marin County County Clerk and the Marin County Independent Journal (as is customary, the District will pay for the newspaper notice separately). The NOC and the Initial Study/Proposed MND will be submitted to CEQASubmit for review by state agencies and the public.

Administrative Draft Final Initial Study/MND

Following the 30-day public review period, an Administrative Draft Final MND, Mitigation Monitoring Program (MMP) and draft resolution will be developed and submitted for the District's review. The Administrative Draft will include written responses to agency and public comments received, and the MMP will identify assignments of responsibility and time frames for implementation, as required. For purposes of calculating the budget for this task, we assume no more than 30 comments will be received.

Final Initial Study/MND and Public Meetings

Following receipt of District comments, GHD will finalize the document. Copies of the Final Initial Study/MND will be prepared for District Board and District staff. GHD will attend up to two meetings with the District. GHD will help prepare a presentation for the Board meetings at which the adoption of the Initial Study/Proposed MND is considered. GHD's project manager and environmental lead will attend the meetings.

File Notice of Determination

Following adoption, GHD will file a Notice of Determination within five working days with the State Clearinghouse and the District will file with the Marin County Clerk's office. As is customary, we will rely on the District to provide a check for the County Clerk and California Department of Fish and Wildlife filing fees (currently \$2,764 + \$50 County Clerk processing fee). CEQA filing fees increase annually.

Deliverables:

- Draft and Final Project Description
- Administrative Draft Initial Study/Proposed MND
- Screen Check Draft Initial Study/Proposed MND; Notice of Declaration (NOI); Notice of Completion (NOC); Distribution List
- Public Review Initial Study/Proposed MND
- Final Initial Study/MND, if needed

- Notice of Determination

Assumptions:

- The District will approve GHD staff as submitters on CEQA submit to support electronic filing
- The District will make a hard copy of the IS/MND available at the District's office for public review and on the District's website
- No more than 30 individual comments will be received on the public review IS/MND
- All potential environmental impacts will be mitigatable to a less than significant with incorporation of mitigation measures acceptable to the District

Task 5. 60% Design

GHD will prepare a 60% design submittal which will include a complete set of drawings including all anticipated details; with the intent of delivering as complete a design as possible for District review. The design will review all available data and previous designs and provide an updated design with additional detail. The intent at this stage is to provide the District with a moderately detailed design that includes most drawings and specifications.

The design will entail the replacement of the sanitary sewer main crossing Gallinas Creek, between the existing manhole located in a commercial business parking area west of the creek and the JDPS. The 60% design will also include the design of either a pipeline replacement or rehabilitation and armoring of the existing pipeline crossing Gallinas Creek to the existing junction box. No modifications to the junction box will be made. The design will also rehabilitate or replace the existing sanitary sewer coming from the junction box to JDPS. Aside from electrical improvements and the reconnection of the existing sanitary sewer main, no upgrades will be made to JDPS. Also, the project does not include improvements or other modifications for the existing TLTS located upstream of the described project limit for the creek crossing. Survey was performed under previous iterations of the Trunk Sewer redesign in 2014, which will be used as the base topographic files for this design. Given the amount of time that has passed since the survey was performed, there may have been changes in the creek corridor, since it is a natural feature.

- 5.1. Drawings:** Drawings will be developed to depict the proposed sewer improvements for the trunk sewer to the JDPS and the electrical upgrades. The drawings will show the surveyed boundaries, topography, existing utilities, and other key features.
- 5.2. Specifications:** GHD will develop technical specifications, incorporating project-specific requirements. GHD will rely on its own standard specifications where possible and develop additional specifications for the projects to clearly describe the construction requirements.

Front End specification sections (Division 00 and 01) will be prepared and formatted by the District. GHD will review and provide input on design-related specifications including scope, constraints and bid item descriptions.

The 60% submittal will be provided to the District for review. Following review, GHD will meet with the District to review comments and discussion revisions, options, phasing, bid strategies and key coordination items (60% Design Review Meeting).

Deliverables:

- 60% Plans: electronic (pdf)
- Contract and Technical Specifications: electronic (pdf and docx)

Assumptions:

- The District does not have any CAD standards that are required for this Project.
- The District will provide one set of consolidated comments for the drawings and specifications.

Task 6. Environmental Permitting

Environmental permitting will commence following the completion of the 60% design. A State Lands Commission permit has been excluded based on previous email correspondence in April 2015, which indicated the slough at the location of the pipe is not under the jurisdiction of the State Lands Commission. The project site is also located outside the jurisdiction of the San Francisco Bay Conservation and Development Commission. Securing easements from the adjacent commercial properties is also not included in this project's scope.

Agency Pre-Permitting Coordination

GHD will organize one virtual and one field-based pre-permitting meeting with jurisdictional agencies. The two events will be scheduled to accommodate staff from all agencies to the greatest extent possible. During the meetings, GHD and the District will present the project, timeline, design, and environmental approach. GHD will solicit feedback from the agencies that can inform the design and/or permitting approach. Meetings beyond these, including with other environmentally conscious groups, is excluded from the project's scope.

California Department of Fish and Wildlife LSAA

GHD will prepare a Lake and Streambed Alteration Agreement (LSAA) package on EPIMS. Application materials will include the project description, design documents, and biological reporting. The Revegetation and Monitoring Plan (detailed below) will also be submitted.

U.S. Army Corps of Engineers NWP 58

GHD will prepare an application to the U.S. Army Corps of Engineers (USACE) under Nationwide Permit (NWP) 58 for Utility Line Activities for Water and Other Substances to cover the required in-channel work and any associated temporary wetlands impacts on either bank. The application will quantify the extent and type of impact on federally jurisdictional resources below ordinary high water and incorporate information from the completed supporting studies, such as the wetland delineation.

San Francisco Bay Regional Water Quality Control Board Section 401 Water Quality Certification

GHD will prepare an application to the Regional Board for a Clean Water Act 401 Water Quality certification to cover the required in-channel work and any associated temporary wetlands impacts on either bank. The application will quantify the extent and type of impact on state jurisdictional resources and incorporate information from the completed supporting studies, such as the wetland delineation.

Biological Assessments - NMFS and USFWS (excluded)

Based on preliminary project scoping and the generation of official species lists within the project area, Endangered Species Act (ESA) Section 7 consultation and/or conference with the United States Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) may be required for USACE to issue a Clean Water Act Section 404 permit for project activities conducted within the channel of Las Gallinas Creek. Steelhead, a federally protected species, are known to occur in Miller Creek, north of the project site, and have the potential to occur in Las Gallinas Creek. In addition, northwestern pond turtle is currently proposed for listing under ESA and may be approved for listing by the time the project goes to construction. Therefore, we anticipate needing to address northwestern pond turtle during the Section 7 consultation process via what the USFWS refers to as "conference." However, for both species, we anticipate potential effects can be addressed in the Biological Resources Report, and appropriate avoidance measures implemented during construction, thus avoiding preparation of a Biological Assessment. Although we cannot discount that a Biological Assessment may be required by the agencies during the consultation process, at this time we have excluded

such preparation and propose that with preparation of the Biological Resources Report, implementation of in-water work-windows and other avoidance measures, that preparation of a Biological Assessment can be avoided.

Revegetation and Monitoring Plan

GHD will complete a conceptual revegetation and monitoring plan to accompany the permit applications. The document will describe the plan to address any project-related impacts to natural vegetation, temporary impacts to wetlands, and associated post-project monitoring. The plan will include recommended planting palettes, plant spacing, revegetation success criteria required by agencies, and monitoring methods.

Deliverables:

- Draft and final permit packages for each of 3 agencies. Note CDFW's application is submitted electronically on EPIMS and can be reviewed virtually with the District prior to submission if desired.
- Draft and final Revegetation and Monitoring Plan

Assumptions:

- Work within Gallinas Creek is assumed to occur during the in-water work window of August 1 to October 15. Therefore, a Biological Resources Report is assumed to suffice for Section 7 Consultation related to steelhead, and a Biological Assessment will not be required by National Marine Fisheries Service.
- Northwestern pond turtle is not expected to be formally listed until fall of 2025.
- Hydroacoustic analysis for impacts to listed species will not be necessary but can be provided if required via a contract modification.
- The project is not anticipated to result in take of any California Endangered Species Act (CESA) listed species and a Consistency Determination (CD) and/or Incidental Take Permit (ITP) issued by the California Department of Fish and Wildlife (CDFW) is not warranted for this project.
- GHD assumes any bank disturbance associated with trench disturbance or other improvements will result in temporary impacts to wetlands only. Permanent wetland impacts will not occur. GHD assumes agencies will not require compensatory mitigation for temporary impacts and a wetland mitigation will not be required. If agencies require compensatory mitigation for temporary impacts or if permanent impacts occur, GHD can prepare a mitigation plan and associated design under a future contract modification.
- As impacts to wetlands will be only temporary, an alternatives analysis for the Regional Board will not be required.
- Project design will qualify for a NWP 58 with the USACE. An Individual Permit will not be required, and alternatives analysis will not be required.
- Permit fees are excluded; GHD assumes the District will directly pay the permit fee to each agency (Regional Board and CDFW).
- A lease is not required from State Lands Commission (per correspondence with SLC in 2015).
- Gallinas Creek at this location is outside of Bay Conservation and Development Commission jurisdiction.

Task 7. 90% Design

Following the 60% Design Review Meeting and receipt of District comments, GHD will prepare the 90% Design submittal. The intent of the 90% Design submittal is to address all District comments from the 60% submittal and provide an updated design that is complete and inclusive of all design information, details, notes, and technical specifications.

The technical specifications will incorporate all project requirements, include the District provided front-end specifications, and be consistent and thorough.

At 90%, GHD will develop an Engineer's Opinion of Probable Construction Cost (Cost Estimate). This will outline major construction costs, indirect costs and an appropriate construction and estimating contingency.

The 90% submittal will be provided to the District for review. Following review, GHD will meet with the District to review comments and revisions, options, phasing, bid strategies and key coordination items (90% Design Review Meeting).

Deliverables:

- 90% Plans: electronic (pdf)
- Contract and Technical Specifications: electronic (pdf and docx)
- Construction Cost Estimate: electronic (pdf and xlsx)

Assumptions:

- The District will provide one set of consolidated comments for the drawings and specifications.

Task 8. Final Design

GHD will finalize the design and deliver a complete set of biddable contract documents. The plans, specifications and cost estimate will be finalized based on the District's comments on the 60% and 90% Design submittals.

GHD will schedule a meeting with the District to summarize updates from the previous submittal and confirm acceptance of the final design. Following acceptance by District staff, GHD will stamp and sign the final drawing and technical specifications set.

Deliverables:

- Final Plans: electronic (pdf and dwg)
- Contract and Technical Specifications: electronic (pdf and docx)
- Construction Cost Estimate: electronic (pdf and xlsx)

Assumptions:

- GHD has budgeted to address only minor edits (i.e., formatting issues, spelling errors, etc.) following Final Design agreement by the District.
- The District will provide one set of consolidated comments for the drawings and specifications. This is assumed to be the final set of comments from the District.

Task 9. Bid Support Services

GHD will be available during the bid period to assist the District with technical questions related to the design and to prepare technical bid document revisions, which the District may need to be issued by addenda. We assume that questions will be received by, and subsequent responses, will be communicated through the District. Questions from prospective bidders that are directed to GHD will be re-directed to the District for proper documentation.

GHD will assist the District with preparing Addenda, as appropriate, to clarify, correct, or change design-related items in the Bid Documents in response to questions and clarification requests received during the project's bid phase.

GHD will attend and assist the District in conducting the pre-bid conference. GHD will prepare notes from the pre-bid conference and assist the District in documenting questions asked.

GHD will assist the District in reviewing the bids received with the intent of confirming the lowest responsive and responsible bidder.

Upon Contractor selection, GHD will prepare Conformed Construction Documents incorporating changes made to the bid documents.

Deliverables:

- Draft and final meeting notes: electronic (pdf)
- Conformed Construction Plans: electronic (pdf and dwg)
- Conformed Construction Contract and Technical Specifications: electronic (pdf and docx)

Assumptions:

- The District will compile bidder questions and coordinate responses.
- GHD has budgeted to respond to up to five (5) RFIs related to technical items and the design.
- The District will coordinate and issue addenda to prospective bidders.
- GHD has budgeted for preparation of up to two (2) addenda.
- GHD has budgeted for one (1) staff to attend a two-hour pre-bid conference.

Task 10. Construction Support Services

During construction, GHD will review key technical submittals and shop drawings, respond to Contractor Requests for Information (RFIs), and attend Project meetings and site visits as indicated below. We recognize that the final scope of this task may change as the Project design is finalized. As requested by the District, and for purposes of this proposal we have included the following:

- Review of up to twenty-five (25) submittals, including two review cycles.
- Response to up to fifteen (15) RFIs, including two review cycles.
- Attend one (1) construction kick-off meeting with the District and selected Contractor.
- Preparation of record drawings based on timely redlined markups by the Contractor.

Deliverables:

- Response to RFIs and submittals: electronic (pdf)
- Observation photos and notes: electronic (pdf)
- Record Drawings: electronic (pdf and dwg)

Assumptions:

- District will provide a Resident Engineer and manage the construction project. GHD will provide support and assistance as described above.
- Special inspections are not needed.
- District will manage and process Contract Change Orders (CCOs).
- District will manage and process submittals and Requests for Information (RFIs).

- District will track completeness of Contractor redlines (record drawings).
- District will manage and process Progress Payments.
- Contractor shall be solely responsible for site safety.
- Compensation for Tribal representatives is not included in the cost of the study. If Tribal representatives require compensation for monitoring, an amendment to this agreement will be prepared, or the Tribe will contract directly with the District.

Task 11. Community Engagement

GHD will make one presentation to the District Board and the attending public with a focus on the construction impacts to the community. The presentation with focus on the anticipated project impacts, including project schedule, CEQA, and permitting mitigation measures. GHD will prepare basic graphics for the presentation.

Deliverables:

- PowerPoint presentation with graphics; electronic (ppt and pdf)

Task 12. Design Contingency

A contingency is provided for this Scope of Services for additional services that may be required for the project. The use of the project contingency will be based on written authorization by the District to proceed.

General Assumptions

- The District will provide front end specification sections. GHD will review, format, and provide input as needed to reflect project specific requirements and scope.
- Drawings will be prepared using AutoCAD Civil 3D 2018 or newer at a “22x34” sheet size.
- GHD has budgeted for two review cycles, each with one set of consolidated comments.
- GHD does not supervise or direct the Work of the Contractor. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work under the Contract.
- This document is and shall remain the property of GHD. The document may only be used for the purpose of assessing our offer of services and for inclusion in documentation for the engagement of GHD. Unauthorized use of this document in any form whatsoever is prohibited.
- Any fees (e.g. CEQA, permits) will be paid for by the District.
- If this contract is not awarded within 30 days of the date on the cover letter, GHD reserves the right to revise the fee.
- The District has the pertinent easements to facilitate construction in the areas identified. If easements are not already available, the District is responsible for obtaining necessary easements to facilitate temporary and permanent project needs.

Scope Exclusions

- Geotechnical investigation
- Survey
- Potholing
- SWPPP

- Non-electrical upgrades to JDPS or the junction box
- Design of Force Main from JDPS
- Design of trunk sewer upstream of Gallinas Creek crossing
- Land and easement acquisition, including temporary and permanent easements
- Construction-phase biological monitoring
- Construction-phase fish relocation
- Hard copies of deliverables

3. Fee

GHD proposes a time-and-materials fee not to exceed **\$429,711** without written authorization to complete this scope of services. A detailed breakdown of the fee is included as Attachment 1. Services not included in this proposal can be provided by a negotiated fee at current rates.

4. Schedule

GHD will comment the project following receipt of NTP. GHD anticipates this project will take 81 weeks to complete the design portion of the project (Task 2 through Task 8) from the kick-off meeting. A summary of anticipated milestone dates from NTP is provided below. The schedule assumes that the District will provide comments prior to the design review meeting. The final schedule will be confirmed with the District during the Kick-Off Meeting.

Milestone	Proposed Timeline
Notice-to-Proceed (NTP)	April 2024
Kick-Off Meeting	1 Week from NTP
Site Visit	2 Weeks from Kick-off Meeting
Conceptual Design	8 Weeks from Kick-off Meeting
Environmental Technical Studies	4 Months from Kick-off Meeting
CEQA Compliance	24 Weeks from Kick-off Meeting
60% Design Submittal	12 Weeks from Kick-off Meeting
60% Design Review Meeting	2 Weeks from 60% Design Submittal
Environmental Permitting	40 Weeks from 60% Design Review Meeting
90% Design Submittal	4 Weeks from Environmental Permitting
90% Design Review Meeting	2 Weeks from 90% Design Submittal

Milestone	Proposed Timeline
Final Design Submittal	4 Weeks from 90% Design Review Meeting
Final Design Review Meeting	2 Weeks from Final Design Submittal
Bid Advertisement	1 Week from Final Design Meeting
Bid Opening	4 Weeks from Bid Advertisement
Construction Mobilization	4 Weeks from Bid Opening
Construction/Project Completion	6 Months

GHD's standard terms and conditions apply until the District's agreement terms are provided.

Regards



Matt Winkelman
Principal
707.236.1546
Matt.Winkelman@ghd.com



Casey Raines
Project Director
949.585.5212
Casey.Raines@ghd.com

Attachment 1

Fee Breakdown



Terra Linda Trunk Sewer and John Duckett Pump Station Design

8410618

Description	Project Director	QA/QC	Project Manager	Project Engineer	Staff Engineer	Environmental	CAD Oversight	Environmental	Permitting	Sr. Biologist	Biologist	Botany and Wetlands	CEQA	GIS	Admin	Electrical Lead	Electrical Engineer	Total Hours	Labor Total	Subs	Subs Markup	Total Subs	Mileage and Travel	Disb. Fee	Total Disb.	Estimated Project Total																		
	Casey Raines	Matt Winkelman	Greg Felter	Lawrence Downs - TBD	Kellen Hauser - TBD	Andrea Hilton	Jim Bruce	Kristine Gaspar	Sam Moose	Stephen Peterson	Miles Hartnett	Kolby Lundgren	Christian Hernandez	Jesse Lopez	TBD	Rick Guggiana	Becca Keating																											
	\$302	\$400	\$251	\$209	\$149	\$272	\$243	\$272	\$209	\$272	\$209	\$209	\$170	\$200	\$166	\$302	\$170																											
Task1	Project Coordination																	6	6	54	4	0	16	4	0	0	0	0	0	15	0	0	105	\$26,416	\$0	\$0	\$0	\$250	\$683	\$933	\$27,349			
Subtask 1.1	Project Management																	4	4	40	0	0	2	0	0	0	0	0	0	0	0	15	0	0	65	\$15,882	\$0	\$0	\$0	\$0	\$423	\$423	\$16,305	
Subtask 1.2	Quality Management and Meetings																	2	2	14	4	0	14	4	0	0	0	0	0	0	0	0	0	0	0	40	\$10,534	\$0	\$0	\$0	\$250	\$260	\$510	\$11,044
Task2	Conceptual Design																	2	1	0	0	8	6	4	0	0	0	0	0	0	0	28	18	67	\$16,316	\$0	\$0	\$0	\$0	\$436	\$436	\$16,752		
Subtask 2.1	Conceptual Design Drawings																	2	1	0	0	8	6	4	0	0	0	0	0	0	0	0	28	18	67	\$16,316	\$0	\$0	\$0	\$0	\$436	\$436	\$16,752	
Task3	Environmental Technical Studies																	0	0	4	0	8	10	0	1	0	24	48	126	0	32	4	0	0	257	\$55,146	\$9,050	\$1,358	\$10,408	\$2,200	\$1,671	\$3,871	\$69,424	
Subtask 3.1	Aquatic Resources Delineation																	0	0	1	0	2	4	0	0	0	0	0	50	0	12	0	0	0	69	\$14,487	\$0	\$0	\$0	\$0	\$449	\$449	\$14,936	
Subtask 3.2	Botanical Surveys and Sensitive Natural Community Techn Memo																	0	0	1	0	2	2	0	0	0	0	0	76	0	12	0	0	0	93	\$19,377	\$0	\$0	\$0	\$1,200	\$605	\$1,805	\$21,182	
Subtask 3.3	Biological Resources Report																	0	0	1	0	2	2	0	0	0	24	48	0	0	8	0	0	0	85	\$19,253	\$0	\$0	\$0	\$1,000	\$553	\$1,553	\$20,806	
Subtask 3.4	Cultural Resources Investigation																	0	0	1	0	2	2	0	1	0	0	0	0	0	4	0	0	10	\$2,029	\$9,050	\$1,358	\$10,408	\$0	\$65	\$65	\$12,502		
Task4	CEQA Compliance																	0	0	19	0	16	48	0	4	124	0	10	0	152	24	0	0	0	397	\$79,943	\$0	\$0	\$0	\$200	\$2,581	\$2,781	\$82,724	
Subtask 4.1	CEQA Kickoff Meeting and Project Description																	0	0	4	0	2	2	0	0	0	0	0	16	8	0	0	0	0	32	\$6,166	\$0	\$0	\$0	\$0	\$208	\$208	\$6,374	
Subtask 4.2	Admin Draft ISMND and Review Meeting																	0	0	6	0	4	22	0	2	72	0	10	0	84	8	0	0	0	208	\$41,648	\$0	\$0	\$0	\$0	\$1,352	\$1,352	\$43,000	
Subtask 4.3	Screen Check Draft ISMND																	0	0	2	0	2	8	0	0	20	0	0	0	16	4	0	0	0	52	\$10,676	\$0	\$0	\$0	\$0	\$338	\$338	\$11,014	
Subtask 4.4	Noticing and Circulation																	0	0	1	0	0	2	0	0	0	0	0	0	10	0	0	0	0	13	\$2,495	\$0	\$0	\$0	\$0	\$85	\$85	\$2,580	
Subtask 4.5	Public Review Draft ISMND																	0	0	1	0	2	4	0	0	16	0	0	0	8	0	0	0	0	31	\$6,341	\$0	\$0	\$0	\$0	\$202	\$202	\$6,543	
Subtask 4.6	District Review Draft Final ISMND																	0	0	1	0	2	8	0	0	8	0	0	0	8	4	0	0	0	31	\$6,557	\$0	\$0	\$0	\$0	\$202	\$202	\$6,759	
Subtask 4.7	Final ISMND, Public Meetings, NOD																	0	0	4	0	4	2	0	2	8	0	0	0	10	0	0	0	0	30	\$6,060	\$0	\$0	\$0	\$200	\$195	\$395	\$6,455	
Task5	60% Design																	4	20	4	18	56	0	8	0	0	0	0	0	0	44	40	194	\$44,350	\$0	\$0	\$0	\$0	\$1,261	\$1,261	\$45,611			
Subtask 5.1	60% Design Drawings																	4	16	2	12	40	0	8	0	0	0	0	0	0	0	0	32	40	154	\$34,986	\$0	\$0	\$0	\$0	\$1,001	\$1,001	\$35,987	
Subtask 5.2	60% Design Specifications																	0	4	2	6	16	0	0	0	0	0	0	0	0	0	12	0	0	40	\$9,364	\$0	\$0	\$0	\$0	\$260	\$260	\$9,624	
Task6	Environmental Permitting																	0	2	18	0	18	16	0	0	120	0	0	36	0	12	0	0	0	222	\$47,356	\$0	\$0	\$0	\$200	\$1,443	\$1,643	\$48,999	
Subtask 6.1	Agency Pre-Permitting Coordination																	0	2	4	0	2	4	0	0	12	0	0	0	0	0	0	0	0	24	\$5,698	\$0	\$0	\$0	\$200	\$156	\$356	\$6,054	
Subtask 6.2	CDFW Lake & Streambed Alteration Agreement																	0	0	4	0	4	2	0	0	36	0	0	0	0	4	0	0	0	50	\$10,468	\$0	\$0	\$0	\$0	\$325	\$325	\$10,793	
Subtask 6.3	US Army Corp of Engineers NWP 58																	0	0	4	0	2	2	0	0	30	0	0	0	0	4	0	0	0	42	\$8,916	\$0	\$0	\$0	\$0	\$273	\$273	\$9,189	
Subtask 6.4	SF Bay RWQCB 401 Water Quality Certification																	0	0	4	0	6	4	0	0	36	0	0	0	0	4	0	0	0	54	\$11,310	\$0	\$0	\$0	\$0	\$351	\$351	\$11,661	
Subtask 6.6	Revegetation and Monitoring Plan																	0	0	2	0	4	4	0	0	6	0	0	36	0	0	0	0	0	52	\$10,964	\$0	\$0	\$0	\$0	\$338	\$338	\$11,302	
Task7	90% Design																	2	13	6	16	48	0	6	0	0	0	0	0	0	0	48	48	187	\$41,920	\$0	\$0	\$0	\$0	\$1,216	\$1,216	\$43,136		
Subtask 7.1	90% Design Drawings																	2	8	2	8	24	0	6	0	0	0	0	0	0	0	0	32	40	122	\$27,476	\$0	\$0	\$0	\$0	\$793	\$793	\$28,269	
Subtask 7.2	90% Design Specifications																	0	4	2	4	16	0	0	0	0	0	0	0	0	0	12	0	0	38	\$8,946	\$0	\$0	\$0	\$0	\$247	\$247	\$9,193	
Subtask 7.3	90% Construction Cost Estimate																	0	1	2	4	8	0	0	0	0	0	0	0	0	0	4	8	27	\$5,498	\$0	\$0	\$0	\$0	\$176	\$176	\$5,674		
Task8	Final Design																	2	7	6	6	16	0	4	0	0	0	0	0	0	0	8	10	59	\$13,636	0	0	\$0	\$0	\$384	\$384	\$14,020		
Subtask 8.1	Final Design Drawings																	2	4	2	4	12	0	4	0	0	0	0	0	0	0	0	4	8	40	\$8,870	\$0	\$0	\$0	\$0	\$260	\$260	\$9,130	
Subtask 8.2	Final Design Specifications																	0	2	2	2	4	0	0	0	0	0	0	0	0	0	2	0	12	\$2,920	\$0	\$0	\$0	\$0	\$78	\$78	\$2,998		
Subtask 8.3	Final Construction Cost Estimate																	0	1	2	0	0	0	0	0	0	0	0	0	0	0	2	2	7	\$1,846	\$0	\$0	\$0	\$0	\$46	\$46	\$1,892		
Task9	Bid Support Services																	3	1	6	0	0	0	0	0	0	0	0	0	0	8	16	34	\$7,948	0	0	\$0	\$0	\$221	\$221	\$8,169			
Subtask 9.1	Bid Support Services																	2	0	4	0	0	0	0	0	0	0	0	0	0	0	4	0	10	\$2,816	\$0	\$0	\$0	\$0	\$65	\$65	\$2,881		
Subtask 9.2	Conformed Plans and Specifications																	1	1	2	0	0	0	0	0	0	0	0	0	0	4	16	24	\$5,132	\$0	\$0	\$0	\$0	\$156	\$156	\$5,288			
Task10	Construction Support Services																	2	1	18	24	76	12	8	0	16	0	0	0	0	0	16	24	197	\$39,326	0	0	\$0	\$0	\$1,281	\$1,281	\$40,607		
Subtask 10.1	Construction Support Services																	1	1	16	24	60	12	4	0	16	0	0	0	0	0	16	16	166	\$33,806	\$0	\$0	\$0	\$0	\$1,079	\$1,079	\$34,885		
Subtask 10.2	Record Drawings																	1	0	2	0	16	0	4	0	0	0	0	0	0	0	0	8	31	\$5,520	\$0	\$0	\$0	\$0	\$202	\$202	\$5,722		
Task11	Community Engagement																	2	4	8	0	0	8	8	4	0	0	0	0	0	4	0	0	38	10084	0	0	\$0	\$250	\$247	\$497	\$10,581		
Subtask 11.1	Community Engagement																	2	4	8	0	0	8	8	4	0	0	0	0	0	4	0	0	38	\$10,084	\$0	\$0	\$0	\$250	\$247	\$497	\$10,581		
Task12	Design Contingency																	2	2	4	8	32	8	0	4	8	0	0	0	8	0	8	24	108	21640	0	0	\$0	\$0	\$702	\$702	\$22,342		
Subtask 12.1	Design Contingency																	2	2	4	8	32	8	0	4	8	0	0	0	8	0	8	24	108	\$21,640	\$0	\$0	\$0	\$0					



Item Number _____ 3F _____

GM Review _____ CP _____

Agenda Summary Report

To: Board of Directors
From: Michael P. Cortez, PE, District Engineer
 (415) 526-1518; mcortez@lqvsd.org
Mtg. Date: May 16, 2024
Re: Award of Contract to Anvil Builders for Treatment Plant Standby Generator Upgrade
Item Type: Consent Action _____ Information _____ Other _____
Standard Contract: Yes No _____ (See attached) Not Applicable _____

STAFF RECOMMENDATION

Board to approve the award of contract to Anvil Builders, Inc. for the Treatment Plant Standby Generator Upgrade project in the amount of \$744,500.

BACKGROUND

On April 30, 2024, District staff opened bids for the Treatment Plant Standby Generator Upgrade project, and Anvil Builders, Inc. is the apparent low bidder in the amount of \$744,500. The project provides for the decommissioning and offsite disposal of an existing standby generator in the Equipment Building, and the installation of approximately 750 LF of power cable from the new 1-megawatt standby generator near the Electrical Building. The standby generator in the Equipment Building has exceeded its useful life, and standby power for the equipment it currently serves will now be provided by the new 1-megawatt standby generator near the Electrical Building installed in the recent treatment plant upgrade project. Bid result is as follows:

<u>Bidder</u>	<u>Bid Price</u>
1. Anvil Builders, Inc. (Emeryville)	\$744,500*
2. CWS Construction Group, Inc. (Novato)	\$835,000

* - Apparent low bidder.

The Engineer's estimate is \$800,000. Anvil's bid price is within the budget reallocation from TWAS Enclosure/Sludge Basin & Reception Pad Project authorized by the Board on March 7, 2024. Aqua Engineering provided support during bid phase and will continue providing support during construction using the remaining balance of the budget reallocation.

PREVIOUS BOARD ACTION

N/A

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

\$744,500




Item Number _____ 3G _____

GM Review _____ CP _____

Agenda Summary Report

To: Board of Directors

From: Dale McDonald, Administrative Services Manager 
 (415) 526-1519 dmcDonald@lqvsd.org

Meeting Date: May 16, 2024

Re: Audit Engagement Letter

Item Type: Consent Action _____ Information Other _____

Standard Contract: Yes _____ No _____ (See attached) Not Applicable

STAFF RECOMMENDATION

Receive audit engagement letter for the year ending June 30, 2024 and authorize the Board President to ratify and accept the services and arrangements described in the letter.

BACKGROUND

The District has a financial audit conducted each year for audit periods ending June 30. The accounting firm of Nigro & Nigro has audited the District's two previous fiscal year financials. This will be the third year the financial audit will be performed by Nigro & Nigro.

The audit engagement letter is a formal document outlining the terms and responsibilities of an audit engagement between an auditor and their client. Both parties sign engagement letters to indicate their agreement to the terms outlined in the engagement letter. Management has reviewed the engagement letter and found it acceptable. It is similar to the previous year's engagement letters and the scope of work is standard in the audit industry.

PREVIOUS BOARD ACTION

On June 16, 2022, the District Board authorized award of contract to Nigro & Nigro to perform the District's annual financial audits for fiscal years 2022 through 2024, with the option to extend the contract for an additional two fiscal years through 2026.

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

\$21,500 per fiscal year, previously authorized and budgeted.



May 1, 2024

Board of Directors and Mr. Curtis Paxton, General Manager
Las Gallinas Valley Sanitary District
101 Lucas Valley Road, Suite 300
San Rafael, CA 94903

We are pleased to confirm our understanding of the services we are to provide the Las Gallinas Valley Sanitary District (District) as of and for the year ended June 30, 2024.

Audit Scope and Objectives

We will audit the business-type activities and each major fund of the District, as of June 30, 2024 and for the year then ended and the related notes, which collectively comprise the District's basic financial statements as listed in the table of contents of the financial statements.

The objectives of our audit are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with auditing standards generally accepted in the United States of America (GAAS) and, if applicable, in accordance with *Government Auditing Standards*, and/or any state or regulatory audit requirements will always detect a material misstatement when it exists.

Misstatements, including omissions, can arise from fraud or error and are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

Accounting principles generally accepted in the United States of America, (U.S. GAAP,) as promulgated by the Governmental Accounting Standards Board (GASB) require that certain required supplementary information (RSI) such as management's discussion and analysis be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the GASB, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context.

As part of our engagement, we will apply certain limited procedures to the required supplementary information (RSI) in accordance with auditing standards generally accepted in the United States of America, (U.S. GAAS). These limited procedures will consist primarily of inquiries of management regarding their methods of measurement and presentation, and comparing the information for consistency with management's responses to our inquiries. We will not express an opinion or provide any form of assurance on the RSI. The following RSI is required by U.S. GAAP. This RSI will be subjected to certain limited procedures but will not be audited:

1. Management's Discussion and Analysis
2. Schedule of Proportionate Share of the Net Pension Liability
3. Schedule of Pension Contributions
4. Schedule of Changes in the Net OPEB Liability and Related Ratios
5. Schedule of OPEB Contributions

The following other information accompanying the financial statements will not be subjected to the auditing procedures applied in our audit of the financial statements, and our auditor's report will not provide an opinion or any assurance on that other information.

1. Introductory Section
2. Budgetary Information Section
3. Statistical Section

We will also provide a report (that does not include an opinion) on internal control related to the financial statements and compliance with the provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a material effect on the financial statements as required by *Government Auditing Standards*. The report on internal control and on compliance and other matters will include a paragraph that states (1) that the purpose of the report is solely to describe the scope of testing of internal control and compliance, and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control on compliance, and (2) that the report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. The paragraph will also state that the report is not suitable for any other purpose. If during our audit we become aware that the District is subject to an audit requirement that is not encompassed in the terms of this engagement, we will communicate to management and those charged with governance that an audit in accordance with U.S. generally accepted auditing standards and the standards for financial audits contained in *Government Auditing Standards* may not satisfy the relevant legal, regulatory, or contractual requirements.

Auditor Responsibilities

We will conduct our audit in accordance with GAAS and in accordance with *Government Auditing Standards*. As part of an audit in accordance with GAAS and in accordance with *Government Auditing Standards*, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

1. Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
2. Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. However, we will communicate to you in writing concerning any significant deficiencies or material weaknesses in internal control relevant to the audit of the financial statements that we have identified during the audit.
3. Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
4. Conclude, based on the audit evidence obtained, whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the District's ability to continue as a going concern for a reasonable period of time.

Because of the inherent limitations of an audit, together with the inherent limitations of internal control, an unavoidable risk that some material misstatements may not be detected exists, even though the audit is properly planned and performed in accordance with GAAS and in accordance with *Government Auditing Standards*.

Our responsibility as auditors is limited to the period covered by our audit and does not extend to any other periods.

Compliance with Laws and Regulations

As previously discussed, as part of obtaining reasonable assurance about whether the basic financial statements are free of material misstatement, we will perform tests of the District's compliance with the provisions of applicable laws, regulations, contracts, and agreements. However, the objective of our audit will not be to provide an opinion on overall compliance and we will not express such an opinion.

Management Responsibilities

Our audit will be conducted on the basis that management acknowledge and understand that they have responsibility:

- a) For the preparation and fair presentation of the basic financial statements in accordance with accounting principles generally accepted in the United States of America;
- b) For the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of basic financial statements that are free from material misstatement, whether due to error, fraudulent financial reporting, misappropriation of assets, or violations of laws, governmental regulations, grant agreements, or contractual agreements; and
- c) To provide us with:
 - i. Access to all information of which management is aware that is relevant to the preparation and fair presentation of the basic financial statements such as records, documentation, and other matters;
 - ii. Additional information that we may request from management for the purpose of the audit;
 - iii. Unrestricted access to persons within the District from whom we determine it necessary to obtain audit evidence.
 - iv. A written acknowledgement of all the documents that management expects to issue that will be included in the annual report and the planned timing and method of issuance of that annual report; and
 - v. A final version of the annual report (including all the documents that, together, comprise the annual report) in a timely manner prior to the date of the auditor's report.
- d) For including the auditor's report in any document containing basic financial statements that indicates that such basic financial statements have been audited by us;
- e) For identifying and ensuring that the District complies with the laws and regulations applicable to its activities;
- f) For adjusting the basic financial statements to correct material misstatements and confirming to us in the management representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the current year period(s) under audit are immaterial, both individually and in the aggregate, to the basic financial statements as a whole; and
- g) For acceptance of nonattest services, including identifying the proper party to oversee nonattest work;
- h) For maintaining adequate records, selecting and applying accounting principles, and safeguarding assets;
- i) For informing us of any known or suspected fraud affecting the District involving management, employees with significant role in internal control and others where fraud could have a material effect on the financials; and
- j) For the accuracy and completeness of all information provided.

With regard to the supplementary information referred to above, you acknowledge and understand your responsibility:

- a) for the preparation of the supplementary information in accordance with the applicable criteria;
- b) to provide us with the appropriate written representations regarding supplementary information;

- c) to include our report on the supplementary information in any document that contains the supplementary information and that indicates that we have reported on such supplementary information; and
- d) to present the supplementary information with the audited basic financial statements, or if the supplementary information will not be presented with the audited basic financial statements, to make the audited basic financial statements readily available to the intended users of the supplementary information no later than the date of issuance by you of the supplementary information and our report thereon.

As part of our audit process, we will request from management, written confirmation concerning representations made to us in connection with the audit.

Nonattest Services

With respect to any nonattest services we perform,

At the end of the year, we agree to perform the following:

- a) Propose adjusting or correcting journal entries detected during the audit, if applicable, to be reviewed and approved by the District's management.
- b) Word process the financial statements using information provided by management.

We will not assume management responsibilities on behalf of the District. However, we will provide advice and recommendations to assist management of the District in performing its responsibilities.

The District's management is responsible for:

- a) making all management decisions and performing all management functions;
- b) assigning a competent individual to oversee the services;
- c) evaluating the adequacy of the services performed;
- d) evaluating and accepting responsibility for the results of the services performed; and
- e) establishing and maintaining internal controls, including monitoring ongoing activities.

Our responsibilities and limitations of the nonattest services are as follows:

- a) We will perform the services in accordance with applicable professional standards
- b) The nonattest services are limited to the services previously outlined. Our firm, in its sole professional judgment, reserves the right to refuse to do any procedure or take any action that could be construed as making management decisions or assuming management responsibilities, including determining account coding and approving journal entries. Our firm will advise the District with regard to tax positions taken in the preparation of the tax return, but the District must make all decisions with regard to those matters.

Reporting

We will issue a written report upon completion of our audit of the District's basic financial statements. Our report will be addressed to the Board of Directors of the District. Circumstances may arise in which our report may differ from its expected form and content based on the results of our audit. Depending on the nature of these circumstances, it may be necessary for us to modify our opinions, add an emphasis-of-matter or other-matter paragraph(s) to our auditor's report, or if necessary, withdraw from the engagement. If our opinions on the basic financial statements are other than unmodified, we will discuss the reasons with you in advance. If, for any reason, we are unable to complete the audit or are unable to form or have not formed opinions, we may decline to express opinions or to issue a report as a result of this engagement.

In accordance with the requirements of Government Auditing Standards, we will also issue a written report describing the scope of our testing over internal control over financial reporting and over compliance with laws, regulations, and provisions of grants and contracts, including the results of that testing. However, providing an opinion on internal control and compliance will not be an objective of the audit and, therefore, no such opinion will be expressed.

Preparation of State Controller Report

Our Responsibilities

The objective of our engagement is to prepare the annual Financial Transactions Report (FTR) in accordance with the California State Controller's Office Instructions based on information provided by you. We will conduct our engagement in accordance with Statements on Standards for Accounting and Review Services (SSARs) promulgated by the Accounting and Review Services Committee of the AICPA and comply with the AICPA's Code of Professional Conduct, including the ethical principles of integrity, objectivity, professional competence, and due care.

We are not required to, and will not, verify the accuracy or completeness of the information you will provide to us for the engagement or otherwise gather evidence for the purpose of expressing an opinion or a conclusion. Accordingly, we will not express an opinion or a conclusion or provide any assurance on the FTR.

Our engagement cannot be relied upon to identify or disclose any FTR misstatements, including those caused by fraud or error, or to identify or disclose any wrongdoing within the District or noncompliance with laws and regulations.

Management Responsibilities

The engagement to be performed is conducted on the basis that management acknowledges and understands that our role is to prepare the FTR in accordance with the State Controller's Office Instructions. Management has the following overall responsibilities that are fundamental to our undertaking the engagement to prepare your FTR in accordance with SSARs:

- a) The selection of accounting principles generally accepted in the United States of America as the financial reporting framework to be applied in the preparation of the financial statements
- b) The design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error
- c) The prevention and detection of fraud
- d) To ensure that the District complies with the laws and regulations applicable to its activities
- e) The accuracy and completeness of the records, documents, explanations, and other information, including significant judgments, you provide to us for the engagement to prepare financial statements
- f) To provide us with:
 - i. Documentation, and other related information that is relevant to the preparation and presentation of the financial statements,
 - ii. Additional information that may be requested for the purpose of the preparation of the financial statements, and
 - iii. Unrestricted access to persons of whom we determine necessary to communicate.

As part of our engagement, we will issue a disclaimer that will state that the FTR were not subjected to an audit, review, or compilation engagement by us and, accordingly, we do not express an opinion, a conclusion, nor provide any assurance on them.

Engagement Fees

Our fixed fees for the services previously outlined will be as follows:

Financial Statements and Auditor Reports	\$21,000
Preparation of the State Controller's Report	500
Total	\$21,500

If significant changes occur in the District's audit requirements with the implementation of new Governmental Accounting Standards Board (GASB) Standards, Government Auditing Standards or the Audit and Accounting Guide for State and Local Governments issued by the AICPA for attest and/or nonattest services, this may render additional services needed which may increase the above noted fixed fee.

Our invoices for these fees will be rendered each month as work progresses and are payable on presentation. In accordance with our firm policies, work may be suspended if the District's account becomes 60 days or more overdue and may not be resumed until the District's account is paid in full. If we elect to terminate our services for nonpayment, our engagement will be deemed to have been completed upon written notification of termination, even if we have not completed our report. The District will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket costs through the date of termination. The above fee is based on anticipated cooperation from District personnel and the assumption that unexpected circumstances will not be encountered during the audit. If significant additional time is necessary, we will discuss it with management and arrive at a new fee estimate before we incur the additional costs.

Additionally, our fees are dependent on the availability, quality, and completeness of the District's records and, where applicable, upon the District's personnel providing the level of assistance identified in the "prepared by client" request list distributed at the end of our planning work (e.g., District employees preparing confirmations and schedules we request, locating documents selected by us for testing, etc.).

We will schedule the engagement based in part on deadlines, working conditions, and the availability of District key personnel. We will plan the engagement based on the assumption that District personnel will cooperate and provide assistance by performing tasks such as preparing requested schedules, retrieving supporting documents, and preparing confirmations. If, for whatever reason, District personnel are unavailable to provide the necessary assistance in a timely manner, it may substantially increase the work we have to do to complete the engagement within the established deadlines, resulting in an increase in fees over our original fee estimate.

If circumstances occur related to the condition of District records, the availability of sufficient, appropriate audit evidence, or the existence of a significant risk of material misstatement of the financial statements caused by error, fraudulent financial reporting, or misappropriation of assets, which in our professional judgment prevent us from completing the audit or forming an opinion on the financial statements, we retain the right to take any course of action permitted by professional standards, including declining to express an opinion or issue a report, or withdrawing from the engagement.

Should our assumptions with respect to these matters be incorrect, or should the condition of the records, degree of cooperation, or other matters beyond our reasonable control require additional commitments by us beyond those upon which our estimated fees are based, we may adjust our fees and planned completion dates. If significant additional time is necessary, we will discuss it with management and arrive at a new fee estimate as soon as reasonably practicable.

Scheduling

Scheduling of the Audit Final-Fieldwork Dates will be based on an agreeable timetable with the District. We ask that the District prepare a completed and finalized Trial Balance and General Ledger in Excel form as of the June 30, 2024 date with all Balance Sheet accounts properly reconciled in Excel or PDF form and uploaded into the Suralink Portal System by the date scheduled. Failure to complete all the above noted items by the date scheduled will result in a \$1,000 extra fee charge and postponement of the audit to a later date. A 30-day notice before the initial scheduled Audit Final-Fieldwork date is required to change the date and avoid the

extra \$1,000 fee. However, if a December or January date is chosen for the re-scheduled Audit Final-Fieldwork date, the \$1,000 fee will still apply to cover Overtime costs incurred during those months and will only guarantee the audit will be completed by January 31, 2024.

Other Engagement Matters

During the course of the engagement, we may communicate with you or your personnel via fax or e-mail, and you should be aware that communication in those mediums contains a risk of misdirected or intercepted communications.

Government Auditing Standards require that we document an assessment of the skills, knowledge, and experience of management, should we participate in any form of preparation of the basic financial statements and related schedules or disclosures as these actions are deemed a non-audit service.

Paul J Kaymark, CPA is the engagement partner responsible for supervising the engagement and signing the report. During the course of the audit we may observe opportunities for economy in, or improved controls over, your operations. We will bring such matters to the attention of the appropriate level of management, either orally or in writing. You agree to inform us of facts that may affect the basic financial statements of which you may become aware during the period from the date of the auditor's report to the date the financial statements are issued. We agree to retain our audit documentation or work papers for a period of at least seven years from the date of our report.

The audit documentation for this engagement is the property of Nigro & Nigro, PC and constitutes confidential information. However, we may be requested to make certain audit documentation available to regulatory agencies pursuant to authority given to it by law or regulation, or to peer reviewers. If requested, access to such audit documentation will be provided under the supervision of Nigro & Nigro, PC's personnel. Furthermore, upon request, we may provide copies of selected audit documentation to regulatory agencies. The regulatory agencies may intend, or decide, to distribute the copies of information contained therein to others, including other governmental agencies. We will notify the District of any such request.

Conflict Resolution

Should any litigation or adverse action (such as audits by outside governmental agencies and/or threatened litigation, etc.), by third parties arise against the District or the board of directors subsequent to this engagement, which results in the subpoena of documents from Nigro & Nigro, PC and/or requires additional assistance from us to provide information, depositions or testimony, the District hereby agrees to compensate Nigro & Nigro, PC (at our standard hourly rates) for additional time charges and other costs (copies, travel, etc.), and to indemnify us for any attorney's fees to represent Nigro & Nigro, PC.

If any dispute arises among the parties hereto, the parties agree to first try in good faith to settle the dispute by mediation administered by the American Arbitration Association under its applicable rules for resolving professional accounting and related services disputes before resorting to litigation. The costs of any mediation proceeding shall be shared equally by all parties.

The District and Nigro & Nigro, PC both agree that any dispute over fees charged by the auditor to the District will be submitted for resolution by arbitration in accordance with the applicable rules for resolving professional accounting and related services disputes of the American Arbitration Association, except that under all circumstances the arbitrator must follow the laws of California. Such arbitration shall be binding and final. **IN AGREEING TO ARBITRATION, WE BOTH ACKNOWLEDGE THAT IN THE EVENT OF A DISPUTE OVER FEES CHARGED BY THE ACCOUNTANT, EACH OF US IS GIVING UP THE RIGHT TO HAVE THE DISPUTE DECIDED IN A COURT OF LAW BEFORE A JUDGE OR JURY AND INSTEAD WE ARE ACCEPTING THE USE OF ARBITRATION FOR RESOLUTION.** The prevailing party shall be entitled to an award of reasonable attorneys' fees and costs incurred in connection with the arbitration of the dispute in an amount to be determined by the arbitrator.

Conclusion

At the conclusion of our audit engagement, we will communicate to the Board of Directors the following significant findings from the audit:


- a) Our view about the qualitative aspects of the District's significant accounting practices;
- b) Significant difficulties, if any, encountered during the audit;
- c) Uncorrected misstatements, other than those we believe are trivial, if any;
- d) Disagreements with management, if any;
- e) Other findings or issues, if any, arising from the audit that are, in our professional judgment, significant and relevant to those charged with governance regarding their oversight of the financial reporting process;
- f) Material, corrected misstatements that were brought to the attention of management as a result of our audit procedures;
- g) Representations we requested from management;
- h) Management's consultations with other accountants, if any; and
- i) Significant issues, if any, arising from the audit that were discussed, or the subject of correspondence, with management.

Please sign and return the attached copy of this letter to indicate your acknowledgment of, and agreement with, the arrangements for our audit of the basic financial statements including our respective responsibilities.

Enclosed, as required by *Government Auditing Standards*, is a copy of the report on the most recent peer review of our firm.

We appreciate the opportunity to provide these services and believe this letter accurately summarizes the significant terms of our engagement.

Very truly yours,



Nigro & Nigro, PC

The services and arrangements described in this letter are in accordance with our understanding and are acceptable to us.

Management signature: 

Title: GENERAL MANAGER

Date: 05/07/2024

Governance signature: _____

Title: _____

Date: _____




Item Number _____ 3H _____

GM Review _____ CP _____

Agenda Summary Report

To: Board of Directors

From: Dale McDonald, Administrative Services Manager 
(415) 526-1519 dmcDonald@lgvsd.org

Meeting Date: May 16, 2024

Re: Resolution No 2024-2328 Setting Time and Place for Public Hearing on the Budget for the Fiscal Year 2024-2025

Item Type: Consent X Action _____ Information _____ Other _____

Standard Contract: Yes _____ No _____ (See attached) Not Applicable X

STAFF RECOMMENDATION

Staff recommends that the Board approve Resolution 2024-2328 setting the time and place of the Public Hearing for the Budget for the Fiscal Year 2024-2025 for June 20, 2024 at 4:00 PM at 101 Lucas Valley Road, San Rafael, California.

BACKGROUND

One of the major steps in completing the annual budget is to allow the public an opportunity to review and make comments on the budget itself. While there is no government statute requiring this procedure, it is in the best interest of the community to be able to attend a public hearing so that the public can review and comment on how the District revenue is being calculated and how disbursements are proposed to be expended. The District has historically published a hearing notice in the local newspaper to reach the broadest audience possible.

In that regard, the Board of Directors is requested to approve a date for a public hearing to review the 2024-2025 annual budget.

If approved, staff will publish once a week for two consecutive weeks a notice regarding the public hearing in the local newspaper.

PREVIOUS BOARD ACTION

None

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

None.

RESOLUTION No 2024-2328

**A RESOLUTION FIXING TIME AND PLACE FOR PUBLIC HEARING
ON THE DISTRICT BUDGET FOR THE FISCAL YEAR 2024-2025**

LAS GALLINAS VALLEY SANITARY DISTRICT

WHEREAS, this District is in the process of developing a budget for fiscal year 2024-2025; and

WHEREAS, it is in the best interest of the community to allow the public an opportunity be a part of the budget process, to see how the budget is calculated and how proposed disbursements are being expended, and to allow the public to comment on the budget.

NOW, THEREFORE, the Board of Directors of the Las Gallinas Valley Sanitary District herein shall at a regular meeting place of said Board located at 101 Lucas Valley Road, San Rafael, California, is hereby set on Thursday, June 20, 2024 at 4:00 p.m. as the time and place for a public hearing on the 2024-2025 Budget Report filed with the Secretary of this District, and the Board Secretary shall publish notice of said hearing and the filing of said report, once a week for two successive weeks prior to the date set for said hearing, in the Marin Independent Journal, a newspaper of general circulation, printed and published in Marin County, there being no other newspaper of general circulation printed and published in the District; post it at the District's offices at 101 Lucas Valley Road, Suite 300, San Rafael, CA; and post it at its website at www.lgvsd.org.

* * * * *

I hereby certify that the forgoing is a full, true, and correct copy of a resolution duly and regularly passed and adopted by the Sanitary Board of the Las Gallinas Valley Sanitary District, Marin County, California, at a meeting thereof held on the 16th day of May 2024, by the following vote of the members thereof:

- AYES, and in favor thereof, Members:
- NOES, Members:
- ABSTAIN, Members:
- ABSENT, Members:

Teresa L. Lerch, Board Secretary

Approved:

(seal)

Craig K. Murray, President of Board of Directors

5/16/2024

General Manager Report

- Separate Item to be distributed at Board Meeting
- Separate Item to be distributed prior to Board Meeting
- Verbal Report
- Presentation



Agenda Item: 4.2

Date: May 16, 2024

5/16/2024

Job No.	Project Name/Updates	% Complete
DESIGN PROJECTS (13 projects)		
11200-03	John Duckett Pump Station & Sewer Main Capacity and Storage <ul style="list-style-type: none"> Staff held a meeting with GHD to discuss the scope of work. Top 2 priorities: pump station electrical upgrades and exposed gravity trunk sewer creek crossing. Staff received a proposal from GHD on April 8, 2024 in the amount of \$429,711. Staff to recommend for Board approval on May 16, 2024. 	5%
11500-09	Miller Creek Rock Vane Repair <ul style="list-style-type: none"> RWQCB has approved the rock vane repair plans proposed by WRA. WRA is coordinating permit requirements with Corps, BCDC, and CDFW 	Permitting: 30%
20300-09	Smith Ranch Pump Station Electrical Upgrades <ul style="list-style-type: none"> Hazen peer-reviewed the electrical design plans prepared by Freyer & Laureta (F&L). Staff re-added the installation of a new genset in the project. Current scope includes replacement or retrofit of control panels, PLC, MCC, and VFDs, including new conduit/wiring. Staff to call for bids before end of FY 2023-24. 	80%
20600-04	Flow Equalization Basin <ul style="list-style-type: none"> On-hold pending evaluation of final treatment facility layout and results of 24 MGD Treatment Plant Capacity Optimization. 	25% (On-hold)
21300-04	Pump Station Site Lighting Improvements <ul style="list-style-type: none"> F&L conducted a site visit with Collections crew regarding the location of lighting fixtures and motion sensors. Light fixture type and model specified meet Dark Sky Initiative specifications. Staff to call for bids before end of FY 2023-24. 	95%
21350-01	Automatic Transfer Switches for Venetia Harbor Pump Station <ul style="list-style-type: none"> F&L revised the plan set based on staff comments. Staff to call for bids in June 2024. 	95%
21600-01	Emergency Bypass Pumping Analysis & Emergency Response Plan (ERP) <ul style="list-style-type: none"> F&L and Collections crew reviewed the pump station emergency bypass improvements. 	65%
21600-11	Annual Plant Paving and Fencing at Various Locations <ul style="list-style-type: none"> Staff issued a task order to GD Nielson Construction for the plant entrance paving project. Paving work is scheduled in late May 2024. 	80%
22500-04	Solar Photovoltaic System Upgrades <ul style="list-style-type: none"> ForeFront’s subcontractor (Sunworks) filed for bankruptcy causing design delays. ForeFront hired a replacement contractor (Unified Renewables) at no extra charge according to them. ForeFront submitted a price increase due to unforeseen geotechnical conditions. 	15%

Job No.	Project Name/Updates	% Complete
	<ul style="list-style-type: none"> Staff, Kenwood Energy, and ForeFront are working on revised pricing for Board approval. 	
23500-06	Reclamation Pond Catwalks <ul style="list-style-type: none"> Zappetini has completed fabrication of the 3 new catwalks and mobilized for installation. Staff anticipates completion of installation within a week of mobilization. 	90%
24460-01	Sewer Main Rehabilitation 2024 <ul style="list-style-type: none"> Collections Department submitted a list of top priority lines for sewer rehabilitation. Design is in process. 	10% (Design)
24460-05	Marin Lagoon Pump Station (#2-#9) Panel Replacement <ul style="list-style-type: none"> Staff provided comments on the 50% drawings prepared by F&L. F&L to discuss SCADA integration, number of enclosures, and emergency generator receptacle and MTS for select pump stations. To replace the existing variable frequency drive with a prefabricated single or duplex control panels at Marin Lagoon Pump Stations. 	50%
24600-01	Multipurpose Lab Building Design <ul style="list-style-type: none"> Weekly meeting update with Noll & Tam is in progress. Staff and Noll & Tam discussed existing as-built information. Noll & Tam has defined project limits and scheduled topographic survey with BKF. Noll & Tam has scheduled a geotechnical investigation with Miller Pacific. Staff and Noll & Tam discussed permitting and entitlement requirements with the Director of City of San Rafael Planning Department (Margaret Kavanaugh). 	5%
CONSTRUCTION PROJECTS (11 projects)		
11500-09	Miller Creek Vegetation Maintenance <ul style="list-style-type: none"> Project is complete, no more status update required to the Regional Water Board regarding the 2016 Lower Miller Creek Dredging Project. Maintenance Department took over vegetation maintenance along Lower Miller Creek. 	100%
12600-07 & 16650-02	Secondary Treatment Plant Upgrade & Recycled Water Expansion <ul style="list-style-type: none"> Target completion date: TBD District staff working with special counsel on project closeout strategy. 	99%
12600-07	Secondary Effluent Line Modifications <ul style="list-style-type: none"> Staff and Aqua completed final design revision to fit existing conditions. Construction by CATS4U is in progress. 	50%
20200-01	John Duckett Force Main Access Structures <ul style="list-style-type: none"> Staff and F&L are reviewing responses to submittals and RFI's. Staff hired Bellecci & Associates for construction inspection services. Construction by Corcus is in progress. 	10%
21300-03	Standby Generator System Installation for Adrian, McPhail, and Industrial Park PS	85%

<i>Job No.</i>	<i>Project Name/Updates</i>	<i>% Complete</i>
	<ul style="list-style-type: none"> • GD Nielson waiting for delivery of 3 gensets from Leete Generators. • Tentative delivery date: end of June 2024 • All sitework and BAAQMD permitting are complete. • Construction will resume after genset delivery. 	
21500-08	Biosolids Land Application <ul style="list-style-type: none"> • Year 1 (FY 2023-24) of biosolids land application is complete. • Year 2 bidding is in progress. • Pre-bid scheduled for May 9, 2024 • Bid opening: June 6, 2024 	100%
21600-07	Digester MCC-2 Upgrade <ul style="list-style-type: none"> • RFI submittal by Blocka Construction in progress. • Start of construction delayed until October 2024 due to long lead-time of electrical equipment. 	10%
21600-08	Grit Screw Conveyor Systems Replacement <ul style="list-style-type: none"> • CATS4U is in the process of completing minor punch list items before project closeout. • Staff anticipates project closeout before end of FY 2023-24. 	99%
22600-01	Primary Clarifier #1 Rehabilitation <ul style="list-style-type: none"> • Pacific Infrastructure has verified as-built conditions and placed an order for clarifier mechanism with Ovivo. • Tentative equipment delivery: October 2024 • Construction will resume after delivery of clarifier mechanism. 	10%
23500-05	Center Pivot No. 1 Replacement <ul style="list-style-type: none"> • Amerine Systems is in the process of completing punchlist items. • Custom Tractor (Neal Carstensen) will test new system before project closeout. 	98%
24125-01	On-Call Construction Contract (2023-2025) <ul style="list-style-type: none"> • Staff is scheduling Task 2 sewer point repair with Piazza Construction. 	Continuous
REQUESTS FOR PROPOSALS (1 project)		
24600-14	Battery Energy Storage Systems <ul style="list-style-type: none"> • Staff prepared the bidding documents and conducted pre-proposal meeting on April 18, 2024. • Kenwood Energy prepared the technical specifications section of the bidding documents. • Proposal deadline: May 30, 2024 	
CALL FOR BIDS (2 projects)		
24600-08	Treatment Plant Standby Generator Upgrade <ul style="list-style-type: none"> • Apparent low bidder: Anvil Builders for \$744,000 • Other Bidder: CWS Construction: \$835,000 • Engineer's Estimate: \$800,000 • Staff will schedule pre-construction meeting after award of contract. 	
24580-01	Biosolids Land Application Services 2024 <ul style="list-style-type: none"> • Year 1 (FY 2023-24) of biosolids land application is complete. • Year 2 bidding is in progress. • Pre-bid scheduled for May 9, 2024 	

Job No.	Project Name/Updates	% Complete
	<ul style="list-style-type: none"> • Bid opening: June 6, 2024 	
OTHER CIP PROJECTS (8 projects)		
20100-05	Integrated Wastewater Master Plan <ul style="list-style-type: none"> • Staff conducted re-scoping meeting with Kennedy Jenks. • Received final technical memo on collection system assessment, treatment plant, disaster resilience, and asset management from Kennedy Jenks. • Kennedy Jenks still needs to provide memo on sea level rise mitigation. 	Phase 2: 85%
21500-08	Biosolids Reporting and Monitoring Program and EPA PFAS Study <ul style="list-style-type: none"> • Staff continue to hold biweekly progress meetings with GHD. • Staff continue to assist the Purdue research team with its soil and groundwater sampling efforts. 	Continuous
21500-08	Flood Protection Plan for Biosolids Program <ul style="list-style-type: none"> • Submitted Flood Protection Plan prepared by ESA to the Regional Water Quality Control Board in compliance with the NOA. • Staff informed Regional Water Board that flood protection requirements for the biosolids program will be addressed in the IWMP. 	95%
22125-02	Standard Specifications and Drawings Update <ul style="list-style-type: none"> • Staff is reviewing the latest version of District Standards prepared by Hazen & Sawyer 	50%
23200-01	Collection System Hydraulic Model and Flow Monitoring <ul style="list-style-type: none"> • The collection system hydraulic model is complete. • I/I source detection by ADS is in progress. • Staff to retain Hazen & Sawyer for hydraulic model calibration and as-needed services for proposed land development sewer capacity studies. 	95%
24125-03	On-Call Engineering Contract (2023-2024) <ul style="list-style-type: none"> • Hazen & Sawyer and Freyer & Laureta continue to provide miscellaneous engineering services as needed. • Hazen & Sawyer peer-reviewed Pacific Wastewater Optimization's 24 MGD Treatment Plant Capacity Optimization. 	Continuous
24125-02	On-Call Inspection Contract (2023-2024) <ul style="list-style-type: none"> • Executed FY 2023-24 contract with Bellecci & Associates for collection system, development, and other projects as necessary. 	Continuous
24500-04	Sludge Lagoon Liner Replacement/Repair <ul style="list-style-type: none"> • Staff is working on UPCCAA informal bid package to repair/replace the liner. • Tentative start of construction is scheduled after completion of this year's biosolids land application project. 	50% (Design)

UPCCAA PROJECTS

Date PO Requested	Contractor	Description	Status
7/26/2023	Linscott Engineering Contractors	Demolition and removal of former UV disinfection system equipment and control cabinet pads, chip floor concrete around conduits, misc. demolition, and removal of other items.	Completed

8/10/2023	Linscott Engineering Contractors	Construction of Public Drinking Fountain	Completed
10/4/2023	G.D. Nielson Construction	McInnis Corp Yard Paving	
10/4/2023	G.D. Nielson Construction	LGVSD Perimeter Road 24" Storm Drain Line	
10/5/2023	Miksis Services Inc. DBA Rapid Rooter	Northgate Industrial Park PS Influent Line Repair	Completed
10/10/2023	Linscott Engineering Contractors	30-in Inlet FM Valve Investigation & Repair	Cancelled, Included in PO for 20-in De Zurick Valve Gear Operator Replacement
10/16/2023	Linscott Engineering Contractors	Non-Potable Water Hydrant Repair/Replacement	Completed
10/23/2023	Linscott Engineering Contractors	Surface Improvements Near Reclamation Bridge	Completed
11/3/2023	Linscott Engineering Contractors	Chlorine Contact Chamber Diversion Box Weir Modifications	Completed
11/8/2023	Linscott Engineering Contractors	20-in De Zurick Valve Gear Operator Replacement	
11/8/2023	Linscott Engineering Contractors	Water Leak Investigation and Repair	Completed
11/16/2023	Linscott Engineering Contractors	Aeration Basin Underdrain Investigation & Repair	Completed
12/4/2023	Custom Tractor Service	Emergency Sludge Injection	Completed
3/12/2024	Linscott Engineering Contractors	Treatment Plant Water Leak Investigation and Repair	
4/9/2024	Linscott Engineering Contractors	Bio-Wheel Drive Chain Replacement	
4/23/2024	CATS4U Inc.	Waste Gas Burner & Digester Gas Line Replacement	
5/3/2024	Myers & Sons	500-Gallon Fuel Tank Procurement & Installation	
5/3/2024	Linscott Engineering Contractors	Bio-Wheel Chamber 3000 Gear Drive Alignment & Chain Replacement	
5/3/2024	G.D. Nielson Construction	Plant Entrance Paving	

OTHER SMALL PROJECTS

Date PO Requested	Consultant/Vendor	Description	Status
7/14/2023	Riedinger Consulting	STPURWE - Assistance for HDPE & Time Delay Cost Escalation Review	Completed

8/10/2023	Pacific Wastewater Optimization	As-Needed Support for PC #1 Rehabilitation Project and Primary and Secondary Treatment Process Optimization	Completed
8/22/2023	WesTech	On-Site Field Service for Bio-Wheel Inspection and Evaluation	Completed
9/11/2023	Applied Industrial	One 52-ft WH780 Heat Treated Cottered Chain and 5 additional links for Bio-Wheels	Completed
9/12/2023	Marin County Parks	Netting Replacement for McInnis Park Golf Center	Completed
10/3/2023	Riedinger Consulting	STPURWE – Outstanding Claims & PCO Support	Completed
10/30/2023	Acoustiblok, Inc.	Four (4) Enclosures for Aeration Basin Motors	Completed
11/6/2023	Dash Mechanical Engineering	Bio-Wheel Unit 2100 Repair	Completed
11/16/2023	Riedinger Consulting	STPURWE Additional PCO Support - Sep through Nov 2023	Completed
12/12/2023	BPM Reprographics	Large Format Scans for STPURWE Redlined As-Built Drawings	Completed
2/7/2024	Pacific Wastewater Optimization	Phase 2 - Alternatives Analysis for Increasing Flow to Primary Effluent Pump Station	
3/25/2024	Pacific Wastewater Optimization	Electrical Upsizing Analysis	
4/19/2024	Exponent	Bio-Wheel Failure Analysis of Chain & Motor – Task D Chain Link Comparison	
4/19/2024	Chapman & Patton	Appraisal for SRCS Surplus Properties - McPhail and Old Gallinas Sites	

LAND DEVELOPMENT

245 Nova Albion Way

- Total of 100 living units.
- No activities since last report.

Los Gamos Apartments

- Total of 192 apartment units.
- No activities since last report.

Northgate Redevelopment - 5800 Northgate Mall

- Redevelop Northgate Mall to include both retail and multi-family units.
Project Concept 2025: retail space plus 965 multi-family units
Project Concept 2040: retail space plus 1374 multi-family units
- Staff prepared and submitted comments on the Draft EIR to the City of San Rafael.

The Oaks Senior Living Facility - Marinwood Ave

- Construction of 126 senior living units (apartments).
- County of Marin granted entitlements in 2018.
- Applicant contacted the District in May 2024 for review.
- Held a meeting with property owner to discuss Will Serve Letter requirements.
- Staff is trying to expedite the project review and approval process.

Marinwood Plaza - 121, 155, 175 and 197 Marinwood Avenue

- Construction of a multifamily residential/mixed used development, 125 affordable units in four, 3-story buildings.
- Received project referral from County of Marin on 4/25/2024.
- Staff is working on plan review comments for the project.

Other Projects Reviewed by Staff (Will Serve Letters Issued):

- 16 Nova Albion Wy – New ADU
- 25 Farm Rd – New ADU
- 139 Mabry Wy – New ADU
- 346 Holly Dr – New ADU
- 801 Appleberry Dr – New ADU

Other Projects Reviewed by Staff (Will Serve Letters Not Required):

- 5 Mt Shasta Ct – Residential Bathroom Addition

Building Permit Lists

- Reviewed building permit lists from City of San Rafael: Issued 1 request for information letter.
- Reviewed building permit lists from Marin County:
 - Placed 9 permit holds.
 - Released 7 permit holds.

SEWER LATERAL VIDEO INSPECTION - COLLECTIONS DEPARTMENT

- Reviewed 51 sewer lateral inspection videos and issued Letters of Findings.
-

5/16/2024

SOLAR PROJECT UPDATE

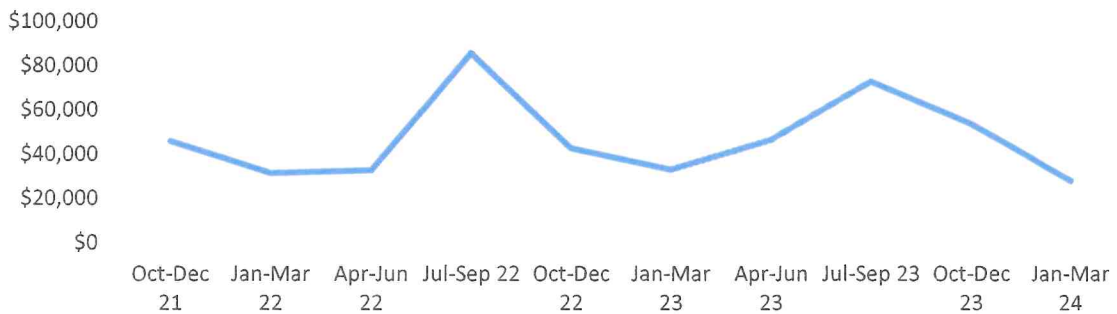
- Separate Item to be distributed at Board Meeting
- Separate Item to be distributed prior to Board Meeting
- Verbal Report
- Presentation



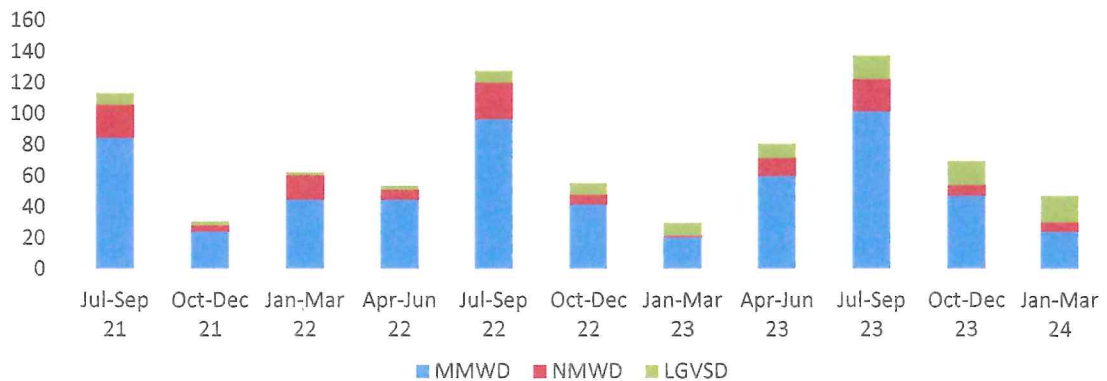
FINANCE

- State Controller’s Office (SCO) Annual Financial Transaction Report (FTR) submitted by January 31 deadline for LGVSD and Marin Public Financing Authority (MPFA).
- Application for Government Finance Officers Association (GFOA) Certificate of Achievement for Excellence in Financing submitted for fiscal year ending June 30, 2023.
- Annual Continuing Disclosure Certificate (CDC) report on the MPFA 2017 Revenue Bonds submitted for the period ending June 30, 2023.
- ISRF#19-131 Las Gallinas Valley Sanitary District Form of Annual Certification for fiscal year ending June 30, 2023 submitted to iBank on January 26, 2023.
- Investments diversified into California Cooperative Liquid Assets Securities System (California CLASS) and California Asset Management Program (CAMP) in January.
- Recycled water billing through March completed. Actual recycled water Operation & Maintenance expenses are billed quarterly to Marin Water (MMWD) and North Marin Water District (NMWD) based on their proportional share of recycled water received from LGVSD. For the quarter ending March 31, recycled water expenditures of \$14,211 was recovered from MMWD and \$3,627 was recovered from NMWD.

Recycled Water Total O&M Expenses



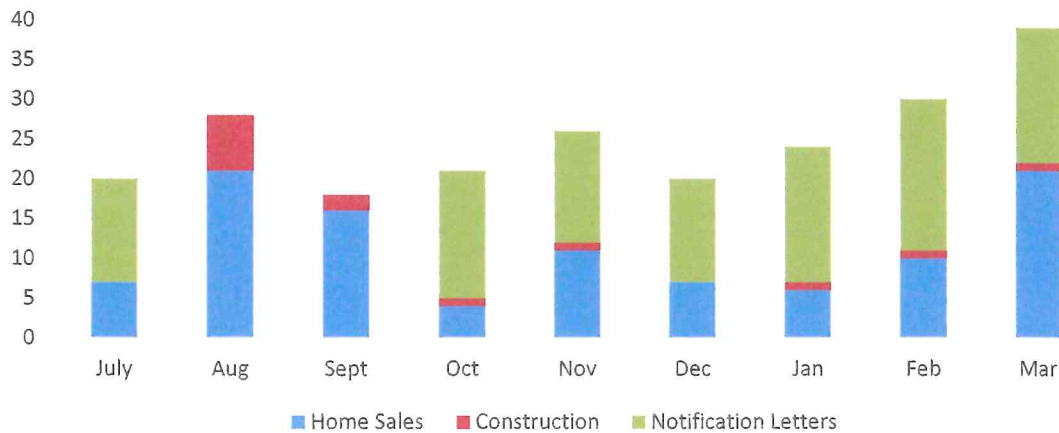
Total Gallons Delivered (Million)



ADMINISTRATION

- CSRMA Pooled Liability Program Insurance for 12/31/23 to 12/31/24 was renewed. Carriers have added PFAS exclusionary endorsements to the coverage. Endorsements to the policy were reviewed during the CSRMA Board of Directors meeting at the January 2024 CASA Conference.
- CSRMA Property Program Schedule of Values updated for and submitted with FY 2024-25 renewal application March 26.
- The Marin County Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) has been accepted by CalOES and has been submitted to FEMA for final review and comment.
- The Occupational Safety and Health (OSH) Act of 1970 requires certain employers to prepare and maintain records of work-related injuries and illnesses. Cal OSHA Injury & Illness Recordkeeping Forms 300 / 300A were completed and posted before the statutory deadline of February 1. There was one recorded injury case and zero missed days of work in 2023.
- A total of six Board meetings were held during this 3-month period.
- Low-Income Sewer Rate Assistance Program (LISRAP) announcement in the Winter Heron newsletter was successful in bringing attention to the program. Twenty-six applications were received this quarter bringing the total number of residents taking advantage of the program to forty-seven.
- Sewer Lateral Inspection Program activity has increased over the last three months. Administration support was provided on 40 inspection applications between January 1 and March 31. Of these, 37 were triggered by home sales and 3 were initiated by construction permits. There were 53 notification letters mailed to property owners who have pulled building construction permits with the City of San Rafael or the County of Marin advising them of their requirement to have their sewer inspected.

Sewer Lateral Video Inspection Activity



- The Sewer Lateral Replacement Program, created in 2012, continues to provide an option to homeowners interested in payment assistance for their sewer lateral replacement. Two contractual assessment applications were received this quarter. There are 113 property owners currently participating in the program.

HUMAN RESOURCES

- Abraham Clark was hired March 4 to fill the vacant Plant Operator III position.
- The Grant Management and Procurement Specialist brochure was updated, and a second round of recruitment was initiated in March. An Offer of Employment was made to a qualified candidate on May 7, and they are currently going through the hiring background process.
- CPS HR Consulting continues to provide Human Resource support to the District.
 - a. Weekly meetings held with Cheri Fairchild, CPS HR Project Coordinator, to discuss ongoing HR issues.
 - b. Recruitment campaign for Grant Management and Procurement Specialist position.
 - c. Feedback to management provided on specific HR issues.

SOLID WASTE and SB 1383 ORGANIC RECYCLING

- Marin Sanitary Service refuse rates for 2024 set by Ordinance on March 21.
- The Zero Waste Marin(ZWM) Local Task Force met on January 4.
- Administrative Services Manager McDonald attended the ZWM Board meeting on March 21.
- ZWM LTF Compliance and Regulations Sub-Committee met on February 29 and March 28 to discuss impacts of SB 54, Plastic Pollution Prevention, and ongoing SB 1383 enforcement requirements and reporting.

CONTRACTS / REQUEST FOR PROPOSALS

Contracts executed between January 1 and March 31 listed below:

<u>Vendor Name</u>	<u>Description</u>	<u>Manager</u>	<u>Date of Agreement</u>	<u>Term End Date</u>	<u>Contract Amount</u>
ArcSine Engineering	Amendment 1 to original SCADA Plant On-Call Contract	Liebmann	1/22/2024	6/30/2026	\$86,538
Gardener's Guild	Amendment 1 to original Contract	McDonald	1/18/2024	Month to Month	\$2,153 / mo.
ArcSine Engineering	SCADA Small Pump Station Improvement	Pease	1/16/2024	7/31/2024	\$14,400
ArcSine Engineering	SCADA Plant Improvements	Liebmann	3/27/2024	2/1/2025	\$48,496

PENDING AGENDA ITEM REQUESTS – STATUS REPORT

#	Item Description	Date	Responsible	Status / Notes
1	Public Use of Reclamation Area	1/6/2022	Dale	Revise Ordinance
2	Electrical Vehicle Study	6/16/2022	Curtis	Develop Scope of Work
3	Diversity, Equity, Inclusion Policy	3/2/2023	Dale	Develop
4	Emergency Preparedness	3/2/2023	Greg	Presentation to Board
5	Private Sewer Lateral Contractual Assessment Increase	5/18/2023	Dale	Revise Ordinance
6	Real Property Administration - Easements	9/21/2023	Mike	Develop



Item Number 4.5
GM Review CP

Agenda Summary Report

To: Board of Directors
From: Dale McDonald, Administrative Services Manager
(415) 526-1519 dmcdonald@lqvsd.org
Meeting Date: May 16, 2024
Re: Quarterly Treasurer’s & Financial Reports as of March 31, 2024
Item Type: Consent _____ Action _____ Information X Other _____
Standard Contract: Yes _____ No _____ (See attached) Not Applicable X .

STAFF RECOMMENDATION

Receive the Treasurer’s report for the quarter ending March 31, 2024.

BACKGROUND

Board Policy F-20-10 (Financial Reporting) and Board Policy F-70-120 (Investment Reporting) require that quarterly reports be submitted to the Board. It is prudent and beneficial to present these reports to the Board at the same time.

TREASURER’S REPORT

Pursuant to the State of California Government Code Section 56300, the District’s investment policy adopted on July 21, 2022, and industry best practices, staff has prepared a quarterly financial report as of March 31, 2024. The attached report includes all bank and investment accounts managed by the District.

As specified in California Government Code Section 53646(e), if all funds are placed in the State of California Local Agency Investment Fund (LAIF), in accounts insured or guaranteed pursuant to Section 14858 of the Financial Code, FDIC-insured accounts and/or in a county investment pool, the reporting elements may be replaced by copies of the latest statements from such institutions.

The District diversified from its primary investment account, LAIF, in January 2024. Two additional pooled investment accounts, California Cooperative Liquid Assets Security System (California CLASS) and California Asset Management Program (CAMP), were established in December 2023. Below are the investment summaries for the quarter ending March 31, 2024:

- LAIF interest rate was 4.30%, up from 4.00% in December. Quarterly interest earned from LAIF was \$49,861.06. The latest quarterly LAIF Remittance Advice statement and PMIA/LAIF Performance Report from the California State Controller’s Office are attached.
- California CLASS average monthly yield as of March 31 was 5.421%. Interest dividend reinvestment is reported monthly. Total interest earned in the quarter was \$124,451. Attached are the account statement pages from the monthly California CLASS statements this quarter.



- CAMP monthly distribution yield was 5.48% as of March 31. Total dividend and income earned in the quarter was \$122,264. Attached are the account statement pages from the monthly CAMP statements this quarter. Restricted reserves are held in CAMP.

The District maintains two debt reserve funds, equal to one year's debt service for the State Revolving Fund and Bank of Marin loans. The quarterly account statements for the two Bank of Marin Certificates of Deposit accounts are included as part of this Treasurer's Report.

Total investments of \$22,907,002 are held in the District's investment accounts and two restricted debt service accounts, which reflect a decrease of \$995,776 during the previous twelve-month period.

The District's investments comply with its investment policy and the District has sufficient funds available to meet its obligations for the next six months.

QUARTERLY FINANCIAL REPORT

District staff is required to provide a quarterly summary report to the Board. The actual revenues and expenditures to budgeted amounts, including relevant information on debt proceeds and debt service payments, are included in the preliminary FY 2024-25 budget report to be presented following this agenda item.

Cash Balance

The District has \$27,627,161 of cash and investments on hand as of March 31, 2024; a decrease of \$127,594 from March 31, 2023. The operating account balance fluctuates based on operating needs. It is not uncommon for the balance to change over the prior quarter or year. Of the cash on hand, the District has designated portions of it for the following uses:

- Encumbrances total \$12,590,461 for capital projects and services. Some encumbered funds for capital projects or services carry into the next fiscal year. The Summary Open Purchase Order Report at the end of this report includes all Board approved expenditures and combines department encumbrances by General Ledger account.
- Reserves of \$10,958,366 pursuant to the District's policies.
- Connection fees of \$922,878 which are available only to fund capacity related projects.
- Debt service restricted reserve funds of \$912,465 as required by loan covenants.
- Accumulation of \$411,350 in cash for the Private Sewer Lateral Assistance program.
- Special assessment funds for operation and maintenance of the pump stations at Marin Lagoon and Captains Cove of \$23,296 and \$12,626, respectively.

PREVIOUS BOARD ACTION

N/A

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

See above.

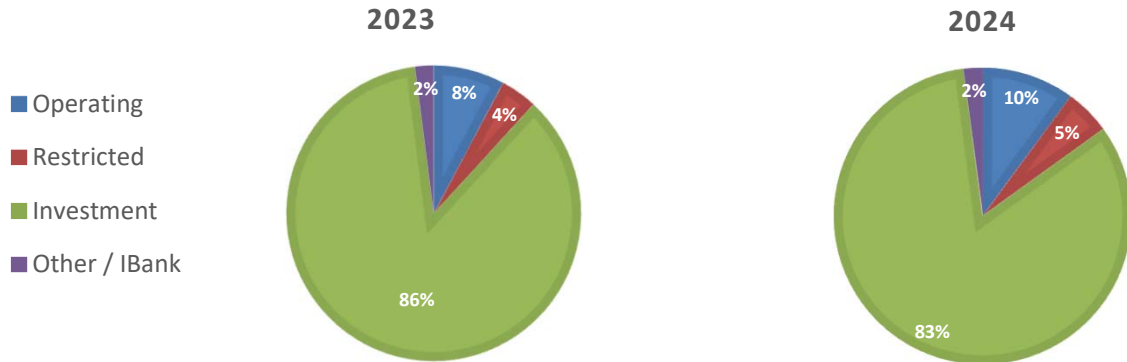
**Las Gallinas Valley Sanitary District
Treasurer's Report - Operating and Investment Accounts
March 31, 2024**

I. Account Summary: Bank and Investment Accounts

Accounts Summary	March		Change from Previous Year
	2023	2024	
Summary of Bank and Investment Accounts			
OPERATIONS:			
Bank of Marin			
Operating Accounts	1,940,635	2,549,398	608,764
Liquid Savings	226,068	232,605	6,536
Private Sewer Lateral Rehab	394,015	411,350	17,336
Surcharge-Marin Lagoon	9,961	23,296	13,336
Surcharge-Captains Cove	2,472	12,626	10,155
Connection Fee	710,582	922,878	212,296
Capital Project Recycled Water Reserve Fund	23	24	1
Petty cash	335	89	(246)
Investment Accounts			
Debt Service Reserve-Recycled Water	604,897	607,892	2,996
Debt Service Reserve-SRF Loan	303,072	304,573	1,501
Local Agency Investment Fund	22,994,810	1,789,456	(21,205,354)
California Cooperative Liquid Assets Security System	-	9,124,451	9,124,451
California Asset Management Program	-	11,080,630	11,080,630
Cash and Investments	<u>\$ 27,186,869</u>	<u>\$ 27,059,270</u>	<u>\$ (127,600)</u>
IBANK ISRF AGREEMENT:	567,760	\$ 567,760	-
RESTRICTED 2017 BOND			
US Bank Bond & Cost of Issuance Funds	\$ 126	\$ 131	\$ 5
TOTAL CASH AND INVESTMENTS	<u>\$ 27,754,755</u>	<u>\$ 27,627,161</u>	<u>\$ (127,594)</u>

II. Account Activity for Bank of Marin Accounts

Bank of Marin operating account activity is for paying regular operating expenses of the District. Funds are transferred from the Liquid Savings to the Operating account as needed.



Statement of Compliance:

The investments accounts are invested in compliance with the District's investment policy, adopted at the July 21, 2022 Board meeting and California Government Code Section 53600. In addition, the District does have the financial ability to meet its cash flow requirements for the next six months.

Prepared by: 
Dale McDonald, Administrative Services Manager

Approved by: 
Curtis Paxton, General Manager



MALIA M. COHEN

California State Controller

LOCAL AGENCY INVESTMENT FUND
REMITTANCE ADVICE

Agency Name	LAS GALINAS VLY SANITARY DIST
Account Number	xx-xx-005

As of 04/15/2024, your Local Agency Investment Fund account has been directly credited with the interest earned on your deposits for the quarter ending 03/31/2024.

Earnings Ratio		.00011755619077389
Interest Rate		4.30%
Dollar Day Total	\$	424,146,622.37
Quarter End Principal Balance	\$	1,789,455.99
Quarterly Interest Earned	\$	49,861.06



PMIA/LAIF Performance Report as of 4/17/24



Quarterly Performance Quarter Ended 03/31/24

LAIF Apportionment Rate ⁽²⁾ :	4.30
LAIF Earnings Ratio ⁽²⁾ :	0.00011755619077389
LAIF Administrative Cost ^{(1)*} :	0.27
LAIF Fair Value Factor ⁽¹⁾ :	0.994191267
PMIA Daily ⁽¹⁾ :	4.22
PMIA Quarter to Date ⁽¹⁾ :	4.12
PMIA Average Life ⁽¹⁾ :	226

PMIA Average Monthly Effective Yields⁽¹⁾

March	4.232
February	4.122
January	4.012
December	3.929
November	3.843
October	3.670

Pooled Money Investment Account Monthly Portfolio Composition ⁽¹⁾ 3/31/24 \$156.5 billion

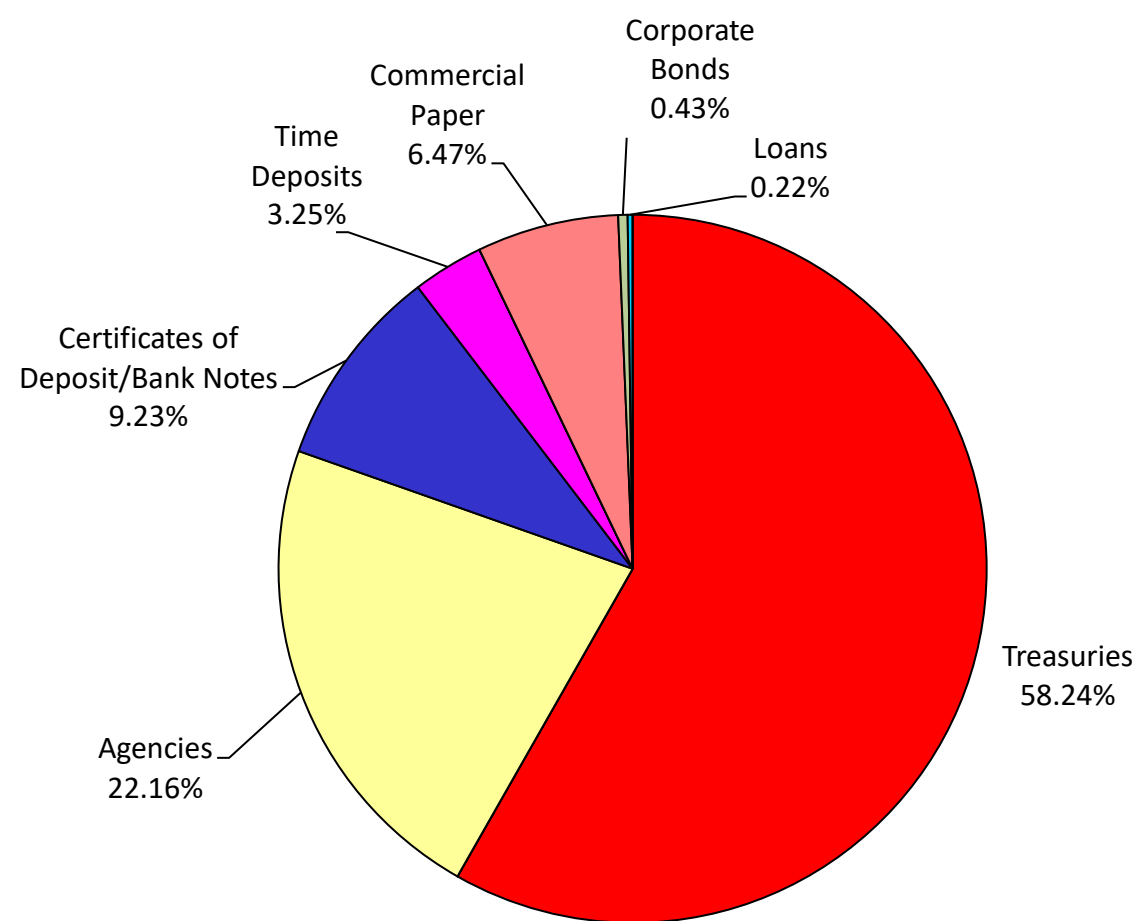


Chart does not include \$2,005,000.00 in mortgages, which equates to 0.001%. Percentages may not total 100% due to rounding.

Daily rates are now available here. [View PMIA Daily Rates](#)

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1) and interest earned on the Wildfire Fund loan pursuant to Public Utility Code 3288 (a).

*The percentage of administrative cost equals the total administrative cost divided by the quarterly interest earnings. The law provides that administrative costs are not to exceed 5% of quarterly EARNINGS of the fund. However, if the 13-week Daily Treasury Bill Rate on the last day of the fiscal year is below 1%, then administrative costs shall not exceed 8% of quarterly EARNINGS of the fund for the subsequent fiscal year.

Source:

⁽¹⁾ State of California, Office of the Treasurer

⁽²⁾ State of California, Office of the Controller



Account Statement

January 31, 2024

Page 2 of 3

Account Number: 8-0001

LGVSD Prime

Account Summary

Average Monthly Yield: 5.4981%

	Beginning Balance	Contributions	Withdrawals	Income Earned	Income Earned YTD	Average Daily Balance	Month End Balance
California CLASS	0.00	13,000,000.00	0.00	27,192.96	27,192.96	5,871,844.93	13,027,192.96

Transaction Activity

Transaction Date	Transaction Description	Contributions	Withdrawals	Balance	Transaction Number
01/18/2024	Contribution	13,000,000.00			3046
01/31/2024	Income Dividend Reinvestment	27,192.96			
01/31/2024	Ending Balance			13,027,192.96	



Account Statement

February 29, 2024

Page 2 of 3

Account Number: 8-0001

LGVSD Prime

Account Summary

Average Monthly Yield: 5.4395%

	Beginning Balance	Contributions	Withdrawals	Income Earned	Income Earned YTD	Average Daily Balance	Month End Balance
California CLASS	13,027,192.96	0.00	4,000,000.00	55,552.90	82,745.86	12,891,177.54	9,082,745.86

Transaction Activity

Transaction Date	Transaction Description	Contributions	Withdrawals	Balance	Transaction Number
02/01/2024	Beginning Balance			13,027,192.96	
02/29/2024	Withdrawal		4,000,000.00		3463
02/29/2024	Income Dividend Reinvestment	55,552.90			
02/29/2024	Ending Balance			9,082,745.86	



Account Statement

March 31, 2024

Page 2 of 3

Account Number: 8-0001

LGVSD Prime

Account Summary

Average Monthly Yield: 5.4210%

	Beginning Balance	Contributions	Withdrawals	Income Earned	Income Earned YTD	Average Daily Balance	Month End Balance
California CLASS	9,082,745.86	0.00	0.00	41,705.00	124,450.86	9,088,127.15	9,124,450.86

Transaction Activity

Transaction Date	Transaction Description	Contributions	Withdrawals	Balance	Transaction Number
03/01/2024	Beginning Balance			9,082,745.86	
03/31/2024	Income Dividend Reinvestment	41,705.00			
03/31/2024	Ending Balance			9,124,450.86	



Account Statement

For the Month Ending **January 31, 2024**

Las Gallinas Valley Sanitary District - LGVSD CAMP - xxxx-01

Trade Date	Settlement Date	Transaction Description	Share or Unit Price	Dollar Amount of Transaction	Total Shares Owned
CAMP Pool					
Opening Balance					0.00
01/18/24	01/18/24	Purchase - Incoming Wires	1.00	10,958,366.00	10,958,366.00
01/31/24	02/01/24	Accrual Income Div Reinvestment - Distributions	1.00	23,191.51	10,981,557.51
Closing Balance					10,981,557.51

	Month of January	Fiscal YTD July-January
Opening Balance	0.00	0.00
Purchases	10,981,557.51	10,981,557.51
Redemptions (Excl. Checks)	0.00	0.00
Check Disbursements	0.00	0.00
Closing Balance	10,981,557.51	10,981,557.51
Cash Dividends and Income	23,191.51	23,191.51

Closing Balance	10,981,557.51
Average Monthly Balance	4,949,687.60
Monthly Distribution Yield	5.54%



Account Statement

For the Month Ending **February 29, 2024**

Las Gallinas Valley Sanitary District - LGVSD CAMP - xxxx-01

Trade Date	Settlement Date	Transaction Description	Share or Unit Price	Dollar Amount of Transaction	Total Shares Owned
CAMP Pool					
Opening Balance					10,981,557.51
02/29/24	03/01/24	Accrual Income Div Reinvestment - Distributions	1.00	47,881.45	11,029,438.96
Closing Balance					11,029,438.96

	Month of February	Fiscal YTD July-February
Opening Balance	10,981,557.51	0.00
Purchases	47,881.45	11,029,438.96
Redemptions (Excl. Checks)	0.00	0.00
Check Disbursements	0.00	0.00
Closing Balance	11,029,438.96	11,029,438.96
Cash Dividends and Income	47,881.45	71,072.96

Closing Balance	11,029,438.96
Average Monthly Balance	10,983,208.59
Monthly Distribution Yield	5.50%



Account Statement

For the Month Ending **March 31, 2024**

Las Gallinas Valley Sanitary District - LGVSD CAMP - xxxx-01

Trade Date	Settlement Date	Transaction Description	Share or Unit Price	Dollar Amount of Transaction	Total Shares Owned
CAMP Pool					
Opening Balance					11,029,438.96
03/28/24	04/01/24	Accrual Income Div Reinvestment - Distributions	1.00	51,191.15	11,080,630.11
Closing Balance					11,080,630.11

	Month of March	Fiscal YTD July-March
Opening Balance	11,029,438.96	0.00
Purchases	51,191.15	11,080,630.11
Redemptions (Excl. Checks)	0.00	0.00
Check Disbursements	0.00	0.00
Closing Balance	11,080,630.11	11,080,630.11
Cash Dividends and Income	51,191.15	122,264.11

Closing Balance	11,080,630.11
Average Monthly Balance	11,036,044.27
Monthly Distribution Yield	5.48%



Bank of Marin

PO Box 2039
Novato, CA 94948-2039

Account Number: xxx-xx5679
Statement Period: 12/31/23 - 03/31/24
Page: 1 of 1

Customer Service Information

Branch: 415-472-2265
Touch Tone Banking: 800-654-5111

Lost or Stolen Card:
24 hours 7 days per week 866-626-6004

Written Inquiries:
496 LAS GALLINAS AVE #4
SAN RAFAEL CA 94903

Visit us Online: www.bankofmarin.com

00008073 BOMB1110033024060259 01 0000
LAS GALLINAS VALLEY SANITARY DISTRICT
"BANK OF MARIN DEBT RESERVE"
101 LUCAS VALLEY RD SUITE 300
SAN RAFAEL CA 94903-1795

Account Summary for PUBLIC FUNDS JMBO CDxxxx-xx5679

Total Current Balance \$607,892.31
Total Interest Year To Date \$756.44

Transaction Detail

Date	Description	Deposits	Withdrawals	Balance
12/31	Beginning Balance			\$607,135.87
01/31	Interest	756.44		607,892.31
03/31	Ending Balance			\$607,892.31

Deposit Number	0000-000001	Original Deposit Amount	\$569,178.89
Principal	\$571,431.58	Original Deposit Date	08/01/12
Current Balance	\$607,892.31	Last Maturity Date	08/01/20
Total Interest Year To Date	\$756.44	Current Term	60 Months, renewable
Current Rate	0.494%	Next Maturity Date	08/01/25





Bank of Marin

PO Box 2039
Novato, CA 94948-2039

00008076 BOMB1110033024060259 01 0000

LAS GALLINAS VALLEY SANITARY DISTRICT
101 LUCAS VALLEY RD SUITE 300
SAN RAFAEL CA 94903-1795

Account Number: xxxx-xx6073
Statement Period: 12/31/23 - 03/31/24
Page: 1 of 1

Customer Service Information

Branch: 415-472-2265
Touch Tone Banking: 800-654-5111

Lost or Stolen Card:
24 hours 7 days per week 866-626-6004

Written Inquiries:
496 LAS GALLINAS AVE #4
SAN RAFAEL CA 94903

Visit us Online: www.bankofmarin.com

Account Summary for PUBLIC FUNDS JMBO CDxxxx-xx6073

Total Current Balance \$304,572.71
Total Interest Year To Date \$379.00

Transaction Detail

Date	Description	Deposits	Withdrawals	Balance
12/31	Beginning Balance			\$304,193.71
01/29	Interest	379.00		304,572.71
03/31	Ending Balance			\$304,572.71

Deposit Number	0000-000001	Original Deposit Amount	\$286,304.76
Principal	\$286,304.76	Original Deposit Date	07/30/13
Current Balance	\$304,572.71	Last Maturity Date	07/30/20
Total Interest Year To Date	\$379.00	Current Term	60 Months, renewable
Current Rate	0.494%	Next Maturity Date	07/30/25



Open PO GL Encumbrance Summary

GL Account	GL Title	Debit
10-400-5331	Personnel & HR Services	81,813.45
10-400-5342	Other Consultants	34,341.45
10-400-5347	Public Education	2,738.75
10-400-5351	Legal	1,086.50
10-400-5355	Financial Services	18,550.00
10-400-5361	Consulting IT Services	22,183.62
10-420-5342	Other Consultants	136,932.75
10-420-5343	DNU General Small Projects	47,304.97
10-420-5415	General Small Projects	7,848.62
10-460-5231	Diesel Collections	4,017.80
10-460-5233	Vehicle Gas Collections	5,564.14
10-460-5241	Safety Contractor Services	21,707.00
10-460-5334	Uniform Maintenance	87,500.00
10-460-5361	Consulting IT Services	22,600.00
10-460-5441	Lateral Rehab Assistance Prog	10,000.00
10-480-5243	Misc Safety Exp - Lgvsd only	3,760.79
10-480-5361	Consulting IT Services	5,678.00
10-480-5469	Employee Education & Training	4,630.00
10-500-5312	Grounds Maintenance	6,741.07
10-500-5317	Equipment Repair	4,250.00
10-500-5319	Capital Repair / Replacement	40,439.06
10-500-5342	Other Consultants	1,745.93
10-500-5345	SCADA Engineering Support	1,208.67
10-560-5161	Solar Phase II	31,953.75
10-560-5329	Lab Contract Services	41,810.79
10-560-5455	Permits and Fees	4,800.00
10-580-5321	General - Reclamation expenses	11,013.00
10-580-5325	Sludge Inject & Land Applicati	19,847.49
10-580-5339	Other Outside Services	9,415.00
10-580-5342	Other Consultants	18,749.00
10-600-5231	Diesel Plant	4,017.79
10-600-5233	Vehicle Gas Plant	5,564.14
10-600-5281	Hypochlorite	9,327.31
10-600-5282	Bisulfite	58,121.46
10-600-5283	Miscellaneous Chemicals	11,857.43
10-600-5313	Power Generation Maint.& Rep	311.79
10-600-5317	Equipment Repair	3,500.00
10-600-5319	Capital Repair / Replacement	601.62
10-600-5334	Uniform Maintenance	87,500.00
10-600-5341	Environmental	241,690.75
10-600-5342	Other Consultants	3,564.61
10-600-5345	SCADA Engineering Support	1,209.67
10-600-5361	Consulting IT Services	7,648.91
10-710-5601	Integrated Wastewater MP	546,070.58
10-711-5601	Caselle Accounting Software	21,356.00
10-715-5601	Pan & Tilt Camera	28,158.00
10-745-5601	On-Call Engineering	175,449.30
10-747-5601	Digester Room MCC#2 Upgrade	976,584.06
10-752-5601	Annual Sewer Rehab	378,266.42
10-754-5601	Trunk Sewer Capacity Analysis	745,895.25
10-756-5601	Collection System Vehicles	573,742.60
10-757-5601	Equipment	17,952.89
10-759-5601	Hydraulic Modeling	63,044.55

Open PO GL Encumbrance Summary

GL Account	GL Title	Debit
10-761-5601	Primary Clarifier #1 Repair	1,367,300.00
10-762-5601	On-Call Construction	200,000.00
10-805-5601	Standby Generators Minor PS	432,330.19
10-807-5601	Fencing Improvements	5,910.00
10-809-5601	Electrical System VFD	39,887.00
10-811-5601	St. Vincent Pump Station Impro	7,150.00
10-812-5601	Creek & Watershed Programs	42,388.28
10-813-5601	Biosolids System Program	921,440.97
10-816-5601	Misc Effluent Disposal Imprvs	3,575.25
10-818-5601	Digester Improvement	45,284.55
10-902-5601	Secondary Plant Upgrade	3,519,587.22
10-903-5601	Emergency Bypass Pumping Analy	10,076.09
10-904-5601	Asset CMMS Onboarding	165,350.00
10-905-5601	Flow Equalization	499,487.25
10-907-5601	Grit Chambers Coating & Auger	8,623.88
10-917-5601	Plant Lighting Improvement Ele	861.00
10-918-5601	Standard Specs & Drawings Upda	57,790.00
10-919-5601	IT Pipes Software Upgrade-Vide	7,500.00
60-620-5284	Laboratory Supplies	3,374.57
60-620-5341	Environmental	247,715.11
60-620-5345	SCADA Engineering Support	1,209.65
60-620-5361	Consulting IT Services	7,648.90
60-851-5601	Recycled Water Facility	324,305.05
Grand Totals:		<u>12,590,461.69</u>

5/16/2024

REVIEW PRELIMINARY BUDGET FOR FISCAL YEAR 2024-2025

- Separate Item to be distributed at Board Meeting
- Separate Item to be distributed prior to Board Meeting
- Verbal Report
- Presentation

5/16/2024

BOARD MEMBER REPORTS

CLARK

NBWA Board Committee, CASA Workforce Committee, Operations Control Centers Ad Hoc Committee, Fleet Management Ad Hoc Committee, FutureSense Ad Hoc Committee, Other Reports

MURRAY

Marin LAFCO, Flood Zone 6, Biosolids Ad Hoc Committee, CASA Energy Committee, Development Ad Hoc Committee, SF Trail Ad Hoc Committee, Other Reports

NITZBERG

ROBARDS

Gallinas Watershed Council/Miller Creek, Engineering Ad Hoc Committee re: STPURWE, McInnis Marsh Ad Hoc Committee, Development Ad Hoc Committee, FutureSense Ad Hoc Committee, Other Reports

YEZMAN

Flood Zone 7, CSRMA, Ad Hoc Engineering Sub-Committee re: STPURWE, Marin Special Districts Association, Biosolids Ad Hoc Committee, Other Reports



ITEM	LEAD
Welcome/Roll Call	Heidi Oriol (Chair), Greg Kester and Sarah Deslauriers (CASA)
Review/Approval of Agenda	All

PRIORITY ISSUES/ACTION ITEMS

	ITEM	LEAD	NOTES
1.	CARB Advanced Clean Vehicle Regulations (CASA Summary)	Sarah	Final ACF Package ; ACF Regulations reopened to implement requirements of AB 1594, workshop held Mar 25 , CASA drafting letter of recommendations; CARB's Truck Regulations Implementation Group Subgroups continue to meet; resuming outreach to Board/Chair to collaborate w/ state agencies on uses of biogas; drafting an FAQ on the ACF regulations for member reference; CEC to hold Transportation Fuels Assessment workshop May 3
2.	EPA SIP Disapproval	David Sarah	EPA disapproves LA-South Coast Air Basin's 1997 8-hour Ozone Air Plan, requires vehicle emission reductions; comments submitted Apr 3
3.	SB 1383: CH₄ Reductions	Greg	Tracking County actions and Article 2 determinations
4.	CARB Low Carbon Fuel Standard	Greg Sarah	45-day proposed regulatory updates released Jan 5 , submitted comments Feb 20. participated in April 10 workshop, comments on workshop content due May 9, future workshops to be scheduled, 15-day changes to be distributed, adoption expected early 2025
5.	Biogas to Hydrogen	Sarah	US National Clean Hydrogen Strategy and Roadmap acknowledges WWTP biogas as renewable feedstock; tracking hydrogen bills; researching literature summarizing life cycle emissions of hydrogen production and use
6.	CNRA Natural & Working Lands (NWL) Climate Smart Strategy	Sarah Greg	CNRA posted the final carbon sequestration targets in support of AB 1757 ; workshops held in Feb to discuss priority nature-based climate solutions and cross-cutting priorities to inform updates to the Climate Smart Strategy , CASA requested biosolids to be listed as a soil amendment leading to c-sequestration
7.	Criteria Pollutants & Toxics Emissions Reporting (CTR) & Hot Spots Program (EICG)	Sarah Steering Committee	Wastewater sector reports BAU through 2027 while conducting the Two-Step Process, Project Manager (PM) selection complete, CASA distributed the Study announcement/participation request, Phase I funds collected and ready to commence, next Air Toxics Subgroup meeting is May 8, CASA has reconnected with CARB, meetings with air districts/CAPCOA to resume when needed; CASA submitted comments on EPA's proposed revisions to its air emissions reporting rule Nov 17, final rule not yet published
8.	Adaptation-Related Updates	Sarah	Tracking implementation of OPC Sea Level Rise Action Plan and Strategic Plan , OPC released the draft update to SLR Planning Guidance for review (removes extreme scenario), comments were submitted Mar 8, final guidance will be presented for adoption June 4; OPC announced SB 1 SLR Adaptation Planning Grant funding for Technical Assistance; updated summary of Regional Water Board/Coastal Commission climate-related requirements in permit renewals

STATE LEGISLATIVE & BUDGET UPDATE

	ITEM	LEAD	STATUS
1.	State Legislation	Jessica/Spencer	Subgroup reviewed and proposed positions for ACE-tracked bills
2.	Governor's Budget	Jessica/Spencer	Draft released Jan 10 , May Revise next

INFORMATIONAL ITEMS

	ITEM	LEAD	NOTES
1.	Environmental Justice Advisory Committee	Sarah	EJAC members ; Attended meeting Mar 15 (hybrid) focused on LCFS rulemaking and cap-and-trade amendments
2.	IRA Tax Credits	Greg Sarah	Eligibility of tax credit toward biogas conditioning and cleaning, allocations to USDA NRCS for Climate-Smart Agriculture & Forestry
3.	BACT: Emergency Diesel Engines	David Courtney	SCAQMD considering source test provisions for large (>1000 hp); SMAQMD adopts Tier 4 for small (>50), BAAQMD to follow
4.	CARB Potential Amendments to Diesel Engine Off-Road Standards	Courtney	Tier 5 rulemaking (including CO ₂ standards), proposal expected in 2024, implementation to begin 2028
5.	WRF Projects	Sarah	Nitrous Oxide at WRRFs, PFAS destruction comparison
6.	Cross-Media Issues	Sarah	CASA's Engineering & Research Group to propose 3 issues to research

UPCOMING CONFERENCES/EVENTS

NAME	DATE/LOCATION
CWEA	April 9-12, Sacramento
CASA CWEA Partnering for Impact	June 4, UC Irvine Beall Applied Innovation Beach at the Cove
WEF Residuals & Biosolids Conference	June 18-21, Oklahoma City, OK
CASA Annual Conference	July 31-Aug 2, Monterey

NEXT MEETING: May 9th, 10 am to Noon (meetings are shifting to every second Tuesday of each month going forward)

Air Quality, Climate Change, & Energy (ACE) Workgroup Meeting

April 25, 2024 (9:00 – 11:00 am)
Virtual – Zoom Link (see Meeting Invite)



1

Priority Issues/
Action Items



2

1. CARB's Advanced Clean Fleet Regulations/Resolution

Applies to gross vehicle weight rating >8,500 lbs (medium- and heavy-duty)

1. State & Local Government Agency Fleets (Section 2013)

(cities, counties, special districts, State agencies)


2. High Priority & Federal Fleet Requirements (Section 2015)

(POTWs can opt in until 2030 – once in, you cannot opt out)

3. Drayage Truck Requirements

4. 2036 100 Percent Medium- and Heavy-Duty Zero-Emission Vehicle Sales Requirements

Contain requirements/schedules for POTWs!





3

1. CARB's Advanced Clean Fleet Regulations/Resolution

State & Local Government Agency Fleets include cities, counties, special districts, state agencies

- **If NOT** in a low population county, have >10 vehicles in fleet:
 - January 1, 2024, 50% of vehicle purchases in each calendar year must be ZEVs
 - January 1, 2027, 100% of vehicle purchases in each calendar year must be ZEVs
- **If in** low population county or ≤10 vehicles in fleet:
 - January 1, 2027, 100% of vehicle purchases in each calendar year must be ZEVs
- No requirement to end the use of existing compliant vehicles
- Exemptions/extensions are only available to vehicles 13 years of age or older
- Early ZEV purchases made before deadlines or in excess of requirement count toward future ZEV purchase requirements





4

1. CARB's Advanced Clean Fleet Regulations/Resolution

High Priority & Federal Fleets

If you are a WWTP, you can opt your entire medium and heavy-duty fleet into this regulation:

- Timeline to transition entire medium- and heavy-duty fleet (see table below)
- Allows existing and new vehicles purchased by Jan 1st (2024) fueled by biomethane (generated from diverted organic waste) to opt into Milestone Group 3
- CASA expressed need for a market for biomethane while demonstrating biogas-to-hydrogen technologies
- Exemptions/extensions are only available to vehicles 16 years of age or older

Percentage of fleet that must be ZEVs →	10%	25%	50%	75%	100%
Milestone Group 1: Box trucks, vans, buses w/ two axles, yard tractors, light-duty package delivery vehicles	2025	2028	2031	2033	2035 +
Milestone Group 2: Work trucks, day cab tractors, buses with three axles	2027	2030	2033	2036	2039 +
Milestone Group 3: Sleeper cab tractors and specialty vehicles	2030	2033	2036	2039	2042 +

Most POTWs have registered under State & Local Government Agency Fleet for increased flexibility in the near term!

5

Does AB 1594 change any provisions in ACF?

- Adopted October 8, 2023
- Applies to public agencies, including community water systems, water districts, wastewater treatment providers...
- Authorizes public agencies to purchase traditional replacements for medium- and heavy-duty vehicles at the end of their useful life to maintain reliable service and respond to major foreseeable events
- ACF regulations re-opened March 25th to incorporate requirements of AB 1594 (for example, to remove vehicle age requirements to be eligible for flexibility provisions)
- Rulemaking (amendment) process to be complete by early 2025 and is focused on the ZEV Purchase and Daily Usage Exemptions
- CASA is drafting recommendations for CARB's consideration
- CASA to resume the Advanced Clean Vehicle Task Force and Subgroup engagement



6

1. CARB's Advanced Clean Fleet Regulations/Resolution

Other Actions:

- Truck Regulations Implementation Group (TRIG) continues to meet to receive input
 - Subgroups include Outreach, Border Communities, Infrastructure Implementation, and Rule Provisions
 - Outreach Subgroup to meet May 29th
- CASA drafting an FAQ document based on CARB's responses to member questions



7

2. EPA Disapproval of State Implementation Plan (SIP)

- EPA disapproved of LA-South Coast Air Basin's 1997 8-hour Ozone Air Plan (however, cannot achieve reductions w/out vehicle emission reductions)
- In turn, 2025 penalties (related to Sections 179 and 185 of CAA) are being discussed for Title V facilities within SCAQMD since basin not meeting SIP requirements on time (subset of SoCal agencies face ~\$400k per year in fees)
- Fossil fuel vehicles must be removed to meet requirements, could achieve reductions now if biomethane-fueled vehicles (technology that is available today) were allowed to expand
- CASA submitted comments on EPA's disapproval of the SIP April 3rd
- Waiting to hear when EPA plans to release their final decision



8

3. SB 1383 Organic Waste Methane Emissions Reduction



- 40% methane reduction by 2030 (relative to 2013 levels) via organic waste diversion from landfills
 - 50% by January 1st, 2020, and 75% by January 1st, 2025 (relative to 2014 levels)
- Counties with overly restrictive ordinances related to land application are reassessing their requirements as projects arise in those counties
 - Sutter County has updated their Ordinance to allow Class A/EQ land application (CalRecycle, CASA, and City of Yuba City advocated for Class B as well)
 - Tracking compliance evaluations across CA with special focus on Stanislaus, San Joaquin, Tulare, Kern
 - May 29th virtual workshop
- Article 2 interpretation and determination discussions continue, specifically regarding processes 1) not counting as landfilling and 2) must show they can reduce methane



9

4. CARB Low Carbon Fuel Standard (LCFS)

- Designed to reduce fossil fuel dependence
- Proposed (45-day) changes released January 5th
 - Phase-out of avoided methane crediting for both biomethane and hydrogen pathways
 - Phase-out of credit for biomethane as a transportation fuel
 - ISOR recognizes importance of POTWs but suggests POTWs need new/more digestion capacity/infrastructure which may require a compliance response
- Actions
 - CASA submitted comments February 20th
 - Participated in / commented during April 10th workshop, drafting written comments due for submission May 9th
 - CARB to hold more workshops and release 15-day changes later this year
 - Board intends to vote in early 2025, updates to be effective immediately



10

5. Biogas-to-Hydrogen

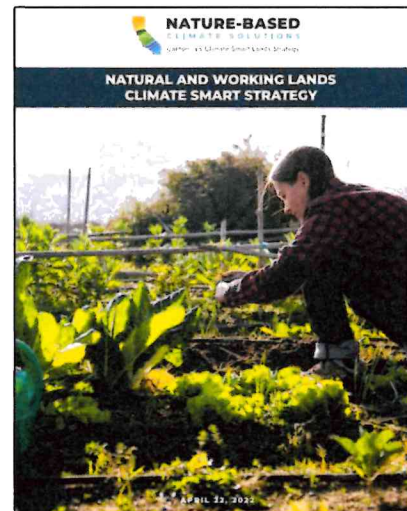
- Tracking hydrogen related bills that define green hydrogen or relate to hydrogen production
- US National Clean Hydrogen Strategy & Roadmap – Enable the Benefits of Clean Hydrogen:
 - Strategy 1: Target Strategic, High-Impact Uses of Clean Hydrogen
 - Clean hydrogen in industrial applications
 - Clean hydrogen in transportation
 - Power sector applications
 - Carbon Intensity of Hydrogen Production
 - **Strategy 2: Reduce the Cost of Clean Hydrogen**
 - Hydrogen Production Through Water Splitting
 - Hydrogen Production from Fossil Fuels with Carbon Capture and Storage
 - **Hydrogen Production from Biomass and Waste Feedstocks (acknowledges WWTP biogas)**
 - Other System Costs
 - Strategy 3: Focus on Regional Networks
- LACSD has offered to demonstrate biogas-to-hydrogen technologies
- Researching summary of life cycle emissions estimates of hydrogen production and use



11

6. CNRA NWL Climate Smart Strategy

- Modeling 8 landscapes for GHG reduction potential
- CNRA was required to develop C-sequestration targets for 2030, 2038, 2045 by AB 1757
- CASA submitted input on draft targets September 14th
- Final targets released in October 2023
- CNRA released a summary of priority nature-based climate solutions and cross-cutting priorities in January 2024
- CASA participated in Feb 27 workshop on Croplands, submitted comments requesting biosolids be an eligible amendment
- Draft revisions to the Climate Smart Strategy expected in June 2024 for review (additional workshops expected in fall)
- CNRA targeting adoption of revised Climate Smart Strategy early 2025



12

6. Tracking incentives that either directly or indirectly support achieving improved soil/ag land health AND carbon sequestration

Incentive Programs	Objective	Relevance to Biosolids
<p>USDA NRCS – Climate Smart Agriculture & Forestry Program</p> <p>Climate Action Reserve – Soil Enrichment Protocol</p> <p>Healthy Soils Initiative</p>		

13

7. Criteria Pollutants & Toxics Reporting and Air Toxics “Hot Spots” Program Updates – Pooled Emissions Study

- AB 617 gives CARB authority to “harmonize” air monitoring, reporting, & emission reductions for stationary sources
- AB 2588 Hot Spots compound list is >1,700 compounds (from >500)
 - Unknown toxicity levels
 - Unknown emission factors
 - Many are not relevant to WWTPs
- Phased compliance allows WWTPs to:
 - Report business-as-usual through 2028 (reporting begins 2029 for 2028 data) but **all WWTPs must participate in a two-step process (individually or as a group)**
 - Perform “two-step process” to determine relevant shortlist of compounds
 1. Scan air space of unit processes to determine detectable compounds
 2. Perform sampling and analysis to ultimately quantify emissions of detectable compounds (Mimic 1990 Pooled Emissions Estimation Program, PEEP, but broader in scope)

14

7. Statewide Two-Step Process – Pooled Emissions Study

- Latest actions:
 - Fully executed agreement with Yorke Engineering to serve as Project Manager for Phase I (developing an emissions quantification plan)
 - CASA distributed the Study summary/participation request, member outreach continues
 - Phase I budget collected, can commence with the Kick-Off Meeting for Phase I
 - CASA Steering Committee to meet with Yorke Team in monthly Progress Meetings
 - CASA's Air Toxics Subgroup will continue to meet and be opened to the broader list of Pooled Emissions Study participants, next meeting is May 8th
 - CASA meeting with CARB May 1st to provide an update on the Study
 - Meetings with CARB and Air Districts to be coordinated as needed this year, to be determined by the PM and Steering Committee



15

7. Federal air toxics reporting updates underway

- Proposed revisions to EPA's Air Emissions Reporting Rule (AERR):
 - Proposed revisions published August 9th with public meeting held August 30th
 - Comments submitted November 17th supporting CARB's application to submit on CA facilities' behalf and that CTR/EICG are compliant
 - Adoption expected in 2024 – waiting to hear next steps



16

8. Adaptation Update: OPC

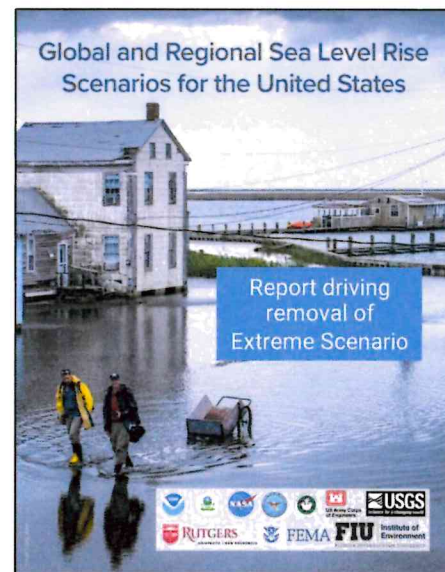
- Tracking implementation of:
 - Strategic Plan ('20-'25)
 - Sea Level Rise Action Plan (FY 22–25) – SLR Planning Guidance
 - 30x30 California
- Update to SLR Planning Guidance
 - Aug 15th meeting discussed updates since 2018, including removing extreme (H++) scenario since not plausible
 - Draft revisions released in January for public comment
 - Comments submitted March 8th
 - **Final Guidance to be presented to OPC for adoption during June 4th meeting (to be released week ahead)**
- Coastal Commission to then update their “Critical Infrastructure at Risk: SLR Planning Guidance” scenarios – removing the extreme (H++) scenario



17

8. Adaptation Update: OPC

- Draft revisions to SLR Planning Guidance:
 - Higher certainty/narrow range of SLR through 2050
 - By 2100, expected SLR 1.6 to 3.1 ft, higher possible
 - 2100+, range of SLR increasingly large due to uncertainties in physical processes (e.g., ice sheet loss)
 - By 2150, expected SLR 2.6 to 11.9 ft (Intermediate-Low to High Scenarios), higher possible
 - **Extreme SLR scenario (i.e., H++) no longer included**
 - Vertical land motion (uplift/subsidence) is primary driver of local variations
 - **Recommends evaluating Intermediate, Intermediate-High, and High scenarios (with storm conditions)**
 - **Recommends using stepwise process that includes adaptation pathways to phase actions over time**
 - **Does NOT address coordination of guidance or provide direction on amending previous assessments**



18



8. Adaptation Update: SB 1 SLR Adaptation Planning Grant

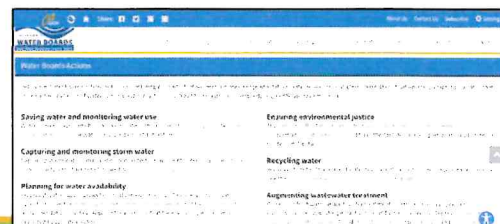
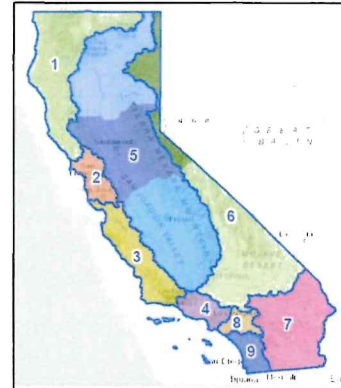
- Technical Assistance (TA) Program is Open
- Grant funding for local, regional, and tribal governments facing significant and imminent SLR threats along the CA coast and San Francisco Bay shoreline
- For details, including eligibility, types of technical services supported, and how to apply, visit link in agenda
- Informational webinar held April 15th ([recording here](#))



19

8. Adaptation Update: Permits require varying climate assessments

- NPDES/WDR permit language requiring climate change vulnerability assessments, climate action plans, resilience plans, disaster preparedness plans, some GHG emissions inventorying, etc...with varying levels of detail
- Please be aware of your region's approach and let us know of any new developments
- GHG's should not be in Water Board permits – working to discuss authority
- State Water Board Climate Change Website – Tracking Water Board Actions



20

Regional Water Board approaches to addressing climate change in permits vary and some require GHG emissions estimates!

Region	POTW Req'ts for Adaptation to Climate Impacts	Mitigation of GHG Emissions
1 North Coast	Disaster Preparedness Assessment and Action Plan	No requirement as of today
2 San Francisco	No requirements for POTWs as of today, Vulnerability Assessments/ERPs required for refineries' WW/SW systems	No requirement as of today
3 Central Coast	Climate Change Adaptation Program	Identifies maximizing reduction in carbon
4 Los Angeles	Climate Change Effects Vulnerability Assessment and Mitigation Plan	Need Update from Latest Permit
5 Central Valley	No requirements for POTWs as of today, Region Work Plan	No requirement as of today
6 Lahontan	No requirements for POTWs as of today, Region Action Plan	No requirement as of today
7 Colorado	No requirements for POTWs or Region Plan as of today	No requirement as of today
8 Santa Ana	Climate Change Action Plan	GHG emissions resulting from facility operations and effluent discharge
9 San Diego	Climate Change Action Plan	GHG emissions resulting from facility operations and effluent discharge



21

State Legislation & Governor's Budget


21 bills under review relate to:

- Air Quality
- Hydrogen
- Natural & Working Lands
- Organics Diversion/SB 1383
- Advanced Clean Fleets Regulations
- Energy



22

Informational Items




23

1. Environmental Justice Advisory Committee

- Now a permanent Committee, to provide input on implementation of Scoping Plan Programs (not just the Scoping Plan Updates)
- 2024 Priorities:
 - Low Carbon Fuel Standard
 - Cap-and-Trade Reg Amendments
 - Natural & Working Lands Target Setting
 - CARB’s role in Senate Bill 905, Carbon Capture Utilization and Sequestration Requirements
- Meetings (hybrid):
 - March 15th, LCFS Rulemaking
 - April 4th, Cap-and-Trade, Carbon Capture Utilization & Storage, and Direct Air Capture

Member (Co-Chairs)	Organization
Martha Dina Argüello	Physicians for Social Responsibility – LA
Juan Flores	Center on Race, Poverty & the Environment
Angel Garcia (resigned)	Californians for Pesticide Reform
Dr. Catherine Garoupa	Central Valley Air Quality Coalition
Kevin Hamilton	Central California Asthma Collaborative
John Harriel Jr.	International Brotherhood of Electrical Workers
Thomas Helme	Valley Improvement Projects
Matt Holmes	California Environmental Justice Coalition
J. Kevin Jefferson III	Urban Releaf (also BAAQMD co-chair)
Mayor Rey León	The LEAP Institute
Luis Olmedo	Comité Civico del Valle
Jill Sherman-Warne	Native American Environmental Protection Coalition
Sharifa Taylor	Communities for a Better Environment



24

2. Inflation Reduction Act (IRA)

- Investment Tax Credit
 - Comments on IRA Energy Property Guidance were being accepted in April
 - CASA did not comment since language states biogas conditioning and cleaning devices are considered eligible components of the energy property

- IRA allocations to USDA [Climate-Smart Agriculture](#) & Forestry
 - Program expanded by directing funds (2023-2027) to [Environmental Quality Incentives Program](#) (EQIP) and [Conservation Stewardship Program](#) (CSP) to expand conservation practices to achieve carbon sequestration (through application of organic soil amendments)
 - NRCS application ranking dates (applications are accepted year-round)
 - EQIP – November 2024
 - CSP – March 2025
 - However, NRCS code 336 needs to be updated to include biosolids
 - Code incentivizes farmers to increase carbon sequestration but excludes biosolids (fear of PFAS)
 - Awarded a \$1.5M grant to Ohio State University (now CO State University) to fund research across US to understand PFAS fate and transport (data in next 6 months), work is still ongoing



25

3. BACT: Emergency Diesel Engines

- Air District activities related to Emergency Standby Engines
 - Bay Area AQMD
 - >1000 bhp, Tier 4 effective January 1, 2020
 - Considering Tier 4 as T-BACT for engines >50 bhp – looking for source test data from Sacramento Metro AQMD
 - Sacramento Metro AQMD
 - >1000 bhp, Tier 4 effective June 4, 2021
 - Determined Tier 4 is BACT for engines >50 hp
 - San Joaquin Valley APCD – >1000 bhp, Tier 4 effective April 29, 2022
 - South Coast AQMD
 - >1000 bhp, Tier 4 approved September 2, 2022
 - Clean Water SoCal working to get testing requirements for compliant engines to match that for certified engines to avoid unnecessary testing requirements onsite for compliant engines
 - SCAQMD advises operators not to use emergency generators to avoid grid consumption (e.g., during the September 2022 heat wave, SCAQMD advised against use of emergency generators)

- State-level/CARB would like to replace existing emergency generators by 2037
 - SCAQMD discussing requiring replacements sooner than later
 - SCAQMD has discussed incentivizing (\$) the demonstration of new technology



26

4. CARB Potential Amendments to Diesel Engine Off-Road Emission Standards

- “Tier 5 Rulemaking”
 - Reduce NO_x (up to 90%) and PM (up to 75%) compared to Tier 4 standards
 - First-time GHG (carbon dioxide, CO₂) standards
 - Stringent exhaust standards for all power categories, including those that do not utilize exhaust aftertreatment (i.e., DPFs and SCRs)
 - Propose more representative useful-life periods
 - Develop a low-load test cycle
 - Update test procedures and consider first-time off-road OBD requirements
- Proposal to Board expected in 2024
- Implementation to begin in 2029



27

5. Water Research Foundation (WRF) Projects

- WRF 5251 – Advancing the Understanding of Nitrous Oxide Emissions Through Enhanced Whole-Plant Monitoring and Quantification (to be awarded)
- WRF 5211 – Understanding the Value Proposition for Thermal Processes to Mitigate PFAS in Biosolids (to be complete in 2026)



28

6. Cross-Media Issues

- CASA's Engineering & Research Group (led by Associates) is planning to propose three priority areas for research – may relate to:
 - RO Concentrate & Brine Management
 - Nutrient management
 - Nutrient management, organics diversion, & nitrous oxide emissions
 - CEC's: PFAS, Microplastics, etc.



29

Upcoming Conferences/Events

- **CASA-CWEA Partnering for Impact**
June 4, UC Irvine Beall Applied Innovation Beach at the Cove
- **WEF Residuals & Biosolids Conference**
June 18-21, Oklahoma City, OK
- **WEF Circular Water Economy Summit**
July 15-17, Dallas, TX
- **CASA Annual Conference**
July 31-August 2, Monterey



30

Upcoming Meeting(s)

- May 9th
- Meetings have been moved to the 2nd Thursdays of each month to avoid conflicting with CARB's monthly Public Hearings held every 4th Thursday

Thank you!



CASA ACE Committee Bill Tracker 4/23/2024

AB 985

(Arambula D) San Joaquin Valley Unified Air Pollution Control District: emission reduction credit system.

Current Text: Amended: 7/6/2023 [html](#) [pdf](#)

Introduced: 2/15/2023

Last Amend: 7/6/2023

Status: 9/13/2023-Assembly refused to concur in Senate amendments. Motion to reconsider made by Assembly Member Arambula.

Location: 9/12/2023-A. RECONSIDERATION

Calendar: 4/25/2024 #5 ASSEMBLY MOTION TO RECONSIDER

Summary: Current law requires the board of every air district to establish by regulation a system by which all reductions in the emission of air contaminants that are to be used to offset certain future increases in the emission of air contaminants be banked prior to use to offset future increases in emissions, except as specified. Current law requires the State Air Resources Board to develop and adopt a methodology for use by air districts to calculate the value of credits issued for emission reductions from stationary, mobile, indirect, and areawide sources when those credits are used interchangeably, consistent with certain requirements. Current law also requires the state board to periodically update the methodology as it applies to future transactions, if necessary. Current law provides for the establishment of the San Joaquin Valley Unified Air Pollution Control District vested with the authority to regulate air emissions from stationary sources located in the San Joaquin Valley Air Basin. This bill would require the state board, except as provided, to conduct an analysis of each credit identified in the San Joaquin Valley Unified Air Pollution Control District's ledger of available emission reduction credits to determine if any credits were issued in violation of state, local, or district laws, rules, regulations, or procedures in place at the time of original issuance, and to complete the analysis no later than January 1, 2027. The bill would require, upon completion of the analysis, the state board to submit a report to the Legislature that includes a summary of the results of the analysis.

Position	Assigned	Group
Oppose, unless amended	Jessica	ACE, SLC

AB 2008

(Wallis R) Reliable Energy Needs for Everyone in the West Program.

Current Text: Amended: 3/6/2024 [html](#) [pdf](#)

Introduced: 1/31/2024

Last Amend: 3/6/2024

Status: 3/7/2024-Re-referred to Com. on U. & E.

Location: 2/12/2024-A. U. & E.

Summary: Current law requires the State Energy Resources Conservation and Development Commission to administer the Clean Transportation Program to develop and deploy innovative technologies that transform California's fuel and vehicle types to help attain the state's climate change policies. This bill would require the commission, upon appropriation by the Legislature for the bill's purpose, to establish and implement the Reliable Energy Needs for Everyone in the West Program to provide financial incentives for purchasing renewable propane, renewable hydrogen, or renewable dimethyl ether to customers in heating dominant climate zones in California where combustion fuels will continue to be the lowest cost and most effective means for providing space and water heating to buildings, as provided.

Position	Assigned	Group
Watch		ACE, SLC

AB 2109

(Carrillo, Juan D) Electricity: surcharge exemption: industrial process heat recovery.

Current Text: Amended: 4/22/2024 [html](#) [pdf](#)

Introduced: 2/5/2024

Last Amend: 4/22/2024

Status: 4/22/2024-Read second time and amended.

Location: 4/17/2024-A. APPR.

Summary: This bill would specify that the enhancement or increased efficiency of equipment occurring in the normal course of business includes industrial process heat recovery technology that meets prescribed requirements. The bill would prohibit nonbypassable or departing load surcharges from applying to a reduction in kilowatt-hours of electricity that an electrical corporation customer consumes from the electrical grid in a metered interval due to industrial process heat recovery technology that meets those prescribed requirements. The bill would also require the commission to minimize impacts to nonparticipating customers by prohibiting the costs directly attributable to the nonbypassable or departing load charges of customers using industrial process heat recovery technology from being paid by residential or small commercial customers, as defined.

Position
Watch

Assigned

Group
ACE, SLC

AB 2190 (Mathis R) California Environmental Quality Act: expedited judicial review: infrastructure projects: hydrogen.

Current Text: Introduced: 2/7/2024 [html](#) [pdf](#)

Introduced: 2/7/2024

Status: 3/19/2024-In committee: Set, first hearing. Hearing canceled at the request of author.

Location: 2/26/2024-A. NAT. RES.

Summary: Current law authorizes the Governor to certify certain projects, including energy infrastructure projects that meet specified requirements, for streamlining benefits related to the California Environmental Quality Act (CEQA), such as the requirement that judicial actions, including any potential appeals, challenging the certification of an EIR or the granting of approval by a lead agency for certified projects be resolved, to the extent feasible, within 270 days after the filing of the certified record of proceedings with the court. Current law excludes from the definition of "energy infrastructure project" for these purposes any project using hydrogen as a fuel. This bill would delete that exclusion, thereby authorizing the Governor to certify energy infrastructure projects that use hydrogen as a fuel for streamlining benefits related to CEQA, as described above. Because the bill would impose additional duties on lead agencies in conducting the environmental review of energy infrastructure projects using hydrogen as a fuel that are certified by the Governor, including the concurrent preparation of the record of proceedings, this bill would impose a state-mandated local program.

Position
Watch

Assigned

Group
ACE, SLC

AB 2204 (Bennett D) Green hydrogen.

Current Text: Amended: 3/21/2024 [html](#) [pdf](#)

Introduced: 2/7/2024

Last Amend: 3/21/2024

Status: 4/17/2024-In committee: Set, first hearing. Hearing canceled at the request of author.

Location: 4/15/2024-A. NAT. RES.

Summary: Would require, on and after an unspecified date, all hydrogen produced or used in California to be green hydrogen that excludes the use of any fossil fuel as a feedstock or as an energy source in the production process and that complies with any applicable requirements to show the use of new and incremental renewable generation resources, temporal matching of renewable generation resources, and geographic deliverability of renewable energy resources.

Position
Oppose, unless amended

Assigned
Spencer

Group
ACE, SLC

AB 2285 (Rendon D) Natural resources: equitable outdoor access: 30x30 goal: urban nature-based projects.

Current Text: Amended: 4/15/2024 [html](#) [pdf](#)

Introduced: 2/8/2024

Last Amend: 4/15/2024

Status: 4/16/2024-Re-referred to Com. on APPR.

Location: 4/9/2024-A. APPR.

Summary: By Executive Order No. N-82-20, Governor Gavin Newsom directed the Natural Resources Agency to combat the biodiversity and climate crises by, among other things, establishing the California Biodiversity Collaborative and conserving at least 30% of the state's lands and coastal waters by 2030. Current law requires the Secretary of the Natural Resources Agency to prepare and submit, on or before March 31, 2024, and annually thereafter, a report to the Legislature on the progress made in the prior calendar year toward achieving the goal to conserve 30% of California's lands and coastal waters by 2030. Current law provides that it is the goal of the state to conserve at least 30% of California's lands and coastal waters by 2030, known as the 30x30 goal. This bill would provide that, to advance and promote environmental, conservation, and public access policies and budget actions, the Governor's office, state agencies, and the Legislature, when distributing resources, shall aspire to recognize the coequal goals and benefits of the 30x30 goal and Outdoors for All, and, to the extent practical, maximize investment in urban communities consistent with those initiatives. The bill would encourage decisionmakers, when distributing resources to achieve the goals and benefits of the 30x30 goal and Outdoors for All, to consider factors that are unique to urban settings, including, among other things, higher land value acquisition and development costs per acre, the acute health needs of a local population due to historic lack of greenspace access and development externalities, local park needs assessment plans, and the availability of mobility options near a proposed land conservation site.

Position
Watch

Assigned

Group
ACE, SLC

AB 2346 (Lee D) Organic waste reduction regulations: procurement of recovered organic waste products.

Current Text: Amended: 4/10/2024 [html](#) [pdf](#)

Introduced: 2/12/2024

Last Amend: 4/10/2024

Status: 4/11/2024-Re-referred to Com. on APPR.

Location: 4/9/2024-A. APPR.

Calendar: 4/24/2024 9:30 a.m. - 1021 O Street, Room 1100 ASSEMBLY APPROPRIATIONS, WICKS, BUFFY, Chair

Summary: The Department of Resources Recycling and Recovery’s organic waste regulations require local jurisdictions to annually procure a quantity of recovered organic waste products and to comply with their procurement targets by directly procuring recovered organic waste products for use or giveaway or by requiring, through a written agreement, that a direct service provider to the jurisdiction procure recovered organic waste products, or both. Those regulations specify the types of recovered organic waste products that a jurisdiction may procure, including compost that is produced at a compostable material handling operation or facility, or a specified digestion facility that composts onsite. Other regulations of the department require all compostable materials handling activities to obtain a facility permit from the department prior to commencing operations and meet other specified requirements, but exclude from those requirements certain activities that the regulations state do not constitute a compostable material handling operation or facility, including the composting of green material, agricultural material, food material, and vegetative food material, and the handling of compostable materials under certain conditions, as provided. This bill would authorize local jurisdictions to be credited for the procurement of recovered organic waste products through an agreement with a direct service provider, as defined, and would allow the direct service provider agreement to include the procurement of recovered organic waste products on a prospective or retrospective basis as long as the purchase of those products occurs during the year for which the local jurisdiction seeks credit. The bill would also authorize local jurisdictions to count towards their procurement targets, compost produced and procured from specified compost operations, as defined, and, until 2030, investments made for the expansion of the capacity of compostable materials handling operations or community composting operations, as provided.

Position	Assigned	Group
Watch		ACE, SLC

AB 2514 (Aguilar-Curry D) Solid waste: organic waste: diversion: hydrogen: biomethane.

Current Text: Amended: 4/10/2024 [html](#) [pdf](#)

Introduced: 2/13/2024

Last Amend: 4/10/2024

Status: 4/11/2024-Re-referred to Com. on APPR.

Location: 4/9/2024-A. APPR.

Summary: The California Integrated Waste Management Act of 1989 generally regulates solid waste disposal, management, and recycling. The act requires each city, county, and regional agency to develop a source reduction and recycling element of an integrated waste management plan. The act requires that element to include a 50% solid waste diversion requirement, as specified, and provides that up to 10% may be achieved through biomass conversion under certain conditions, with biomass conversion defined as the production of heat, fuels, or electricity by certain means from specified materials. One of the conditions for using biomass conversion to satisfy a portion of the solid waste diversion requirement is that pyrolysis not be included in the source reduction and recycling element. Pyrolysis is not defined for that purpose or for other purposes in the act. This bill would define pyrolysis as the thermal decomposition of organic material at elevated temperatures in the absence or near absence of oxygen.

Position	Assigned	Group
Support		ACE, SLC

AB 2626 (Dixon R) Advanced Clean Fleets regulations: local governments.

Current Text: Introduced: 2/14/2024 [html](#) [pdf](#)

Introduced: 2/14/2024

Status: 3/4/2024-Referred to Coms. on TRANS. and NAT. RES.

Location: 3/4/2024-A. TRANS.

Summary: Current law requires the State Air Resources Board to adopt and implement motor vehicle emission standards, in-use performance standards, and motor vehicle fuel specifications for the control of air contaminants and sources of air pollution that the state board has found necessary, cost effective, and technologically feasible. Pursuant to its authority, the state board has adopted the Advanced Clean Fleets Regulation, which imposes various requirements for transitioning local, state, and federal government fleets of medium- and heavy-duty trucks, other high-priority fleets of medium- and heavy-duty trucks, and drayage trucks to zero-emission vehicles. The Advanced Clean Fleets Regulation authorizes entities subject to the regulation to apply for exemptions from its requirements under certain circumstances. This bill would extend the compliance dates for local government set forth in the Advanced Clean Fleets Regulation by 10 years. The bill would prohibit the state board from

taking enforcement action against a local government for violating the Advanced Clean Fleets Regulation if the alleged violation occurs before January 1, 2025.

Position	Assigned	Group
Watch		ACE, SLC

AB 2870 (Muratsuchi D) Low Carbon Fuel Standard regulations: carbon intensity calculation: avoided methane emissions from livestock manure: prohibition.

Current Text: Amended: 4/15/2024 [html](#) [pdf](#)

Introduced: 2/15/2024

Last Amend: 4/15/2024

Status: 4/22/2024-VOTE: Do pass and be re-referred to the Committee on [Agriculture] (PASS)

Location: 4/22/2024-A. AGRICULTURE.

Calendar: 4/24/2024 1:30 p.m. - State Capitol, Room 126 ASSEMBLY AGRICULTURE, SORIA, ESMERALDA, Chair

Summary: The California Global Warming Solutions Act of 2006 requires the State Air Resources Board to adopt rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions to ensure that the statewide greenhouse gas emissions are reduced to at least 40% below the statewide greenhouse gas emissions limit, as defined, no later than December 31, 2030. Pursuant to the act, the state board has adopted the Low Carbon Fuel Standard regulations. Current law requires the state board to provide guidance on credits generated pursuant to the Low Carbon Fuel Standard regulations adopted pursuant to the act from the methane reduction protocols described in the comprehensive strategy for short-lived climate pollutants. This bill would prohibit the state board from including avoided methane emissions in the calculation of carbon intensity for purposes of the state board's evaluation or reevaluation of a fuel pathway, as provided. The bill would define "avoided methane emissions" to mean any captured methane from livestock manure management.

Position	Assigned	Group
Watch		ACE, SLC

AB 2902 (Wood D) Organic waste: reduction regulations: exemptions.

Current Text: Amended: 4/10/2024 [html](#) [pdf](#)

Introduced: 2/15/2024

Last Amend: 4/10/2024

Status: 4/11/2024-Re-referred to Com. on APPR.

Location: 4/9/2024-A. APPR.

Summary: Current law requires the State Air Resources Board to complete, approve, and implement a comprehensive strategy to reduce emissions of short-lived climate pollutants in the state to reduce statewide methane emissions by 40% below 2013 levels by 2030. Current law requires methane emissions reduction goals to include specified targets to reduce the landfill disposal of organics. Current law requires the Department of Resources Recycling and Recovery, in consultation with the state board, to adopt regulations that achieve those targets for reducing organic waste in landfills, as provided. The department's organic waste regulations provide different organic waste procurement targets for local jurisdictions based on population and provide waivers and exemptions from collection and procurement requirements for rural, low-population, and high-elevation jurisdictions. Current law provides that the exemption for rural jurisdictions is valid until December 31, 2026, as specified. This bill would extend the rural jurisdiction exemption until January 1, 2037, except as provided, and would require the department to adopt regulations to establish a process to renew the exemption after that date for periods of up to 10 years. The bill would require, commencing January 1, 2027, those jurisdictions to take specific actions to help reduce, divert, or recycle organic waste.

Position	Assigned	Group
Watch		ACE, SLC

AB 3023 (Papan D) Wildfire and Forest Resilience Task Force: interagency funding strategy: state watershed restoration plans: forest resilience plans: grant program guidelines.

Current Text: Amended: 4/16/2024 [html](#) [pdf](#)

Introduced: 2/16/2024

Last Amend: 4/16/2024

Status: 4/22/2024-VOTE: Do pass and be re-referred to the Committee on [Appropriations] with recommendation: To Consent Calendar (PASS)

Location: 4/22/2024-A. APPR.

Summary: Current law establishes the Wildfire and Forest Resilience Task Force and requires the task force to develop a comprehensive implementation strategy to track and ensure the achievement of the goals and key actions identified in the state's "Wildfire and Forest Resilience Action Plan" issued by the task force in January 2021. Current law declares that the Department of Forestry and Fire Protection has extensive technical expertise in wildland fire prevention and vegetation management on forest, range, and watershed land, and, when appropriately applied, this expertise can have significant public

resource benefits, including decreasing high-intensity wildland fires, improving watershed management, and improving carbon resilience, among other benefits. This bill would require the task force to develop, in partnership with the agency, an interagency funding strategy to help coordinate and align implementation of state watershed restoration plans and initiatives, as specified, with forest resilience planning efforts to achieve more integrated and holistic outcomes.

Position	Assigned	Group
Watch		ACE, SLC

AB 3219 (Sanchez R) Advanced Clean Fleets Regulation: local governments.

Current Text: Amended: 3/11/2024 [html](#) [pdf](#)

Introduced: 2/16/2024

Last Amend: 3/11/2024

Status: 3/12/2024-Re-referred to Com. on TRANS.

Location: 3/11/2024-A. TRANS.

Summary: The California Global Warming Solutions Act of 2006 establishes the State Air Resources Board as the state agency responsible for monitoring and regulating sources emitting greenhouse gases and requires the state board to adopt rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emission reductions from those sources. Pursuant to its authority, the state board has adopted the Advanced Clean Fleets Regulation, which imposes various requirements for transitioning local, state, and federal government fleets of medium- and heavy-duty trucks, other high-priority fleets of medium- and heavy-duty trucks, and drayage trucks to zero-emission vehicles. The Advanced Clean Fleets Regulation authorizes entities subject to the regulation to apply for exemptions from its requirements under certain circumstances. This bill would provide that the requirements of the Advanced Clean Fleets Regulation do not apply to the purchase by a local government of vehicles with a gross vehicle weight rating greater than 8,500 pounds if the price of the zero-emission version of a vehicle is more than an unspecified percentage of the price of a comparable internal combustion engine version of that vehicle.

Position	Assigned	Group
Watch		ACE, SLC

SB 972 (Min D) Methane emissions: organic waste: landfills.

Current Text: Amended: 4/15/2024 [html](#) [pdf](#)

Introduced: 1/25/2024

Last Amend: 4/15/2024

Status: 4/15/2024-From committee with author's amendments. Read second time and amended. Re-referred to Com. on E.Q.

Location: 2/14/2024-S. E.Q.

Calendar: 4/24/2024 9 a.m. - State Capitol, Room 113 SENATE ENVIRONMENTAL QUALITY, ALLEN, BENJAMIN, Chair

Summary: Current law requires the State Air Resources Board to approve and begin implementing a comprehensive strategy to reduce emissions of short-lived climate pollutants in the state and to achieve a reduction in specified emissions, including methane, as provided. Existing law requires the methane reduction goals to include a 75% reduction target from the 2014 level by 2025. Current law requires the Department of Resources Recycling and Recovery, in consultation with the state board, to adopt regulations, as provided, that achieve the targets for reducing organic waste in landfills. This bill would require the department to provide procedures for local jurisdictions to request technical assistance from the department, to post those procedures on its internet website, and to provide that technical assistance, as specified. The bill would require the department to provide 2 reports to the Legislature. The bill would require the first report to be due on or before January 1, 2028, and to be on, among other things, the status of the technical assistance provided to local jurisdictions. The bill would require the 2nd report to be due on or before January 1, 2031, and to be on the state's ability to meet the targets for reducing the disposal of organic waste in landfills and any recommendations to modify the program to achieve those goals.

Position	Assigned	Group
Support		ACE, SLC

SB 1045 (Blakespear D) Composting facilities: zoning: air and water permits.

Current Text: Amended: 4/10/2024 [html](#) [pdf](#)

Introduced: 2/7/2024

Last Amend: 4/10/2024

Status: 4/17/2024-Set for hearing April 24 in E.Q. pending receipt. From committee: Do pass and refer to Com. on E.Q. (Ayes 5. Noes 2.) (April 17). Re-referred to Com. on E.Q.

Location: 4/17/2024-S. E.Q.

Calendar: 4/24/2024 9 a.m. - State Capitol, Room 113 SENATE ENVIRONMENTAL QUALITY, ALLEN, BENJAMIN, Chair

Summary: The California Integrated Waste Management Act of 1989 establishes the Department of

Resources Recycling and Recovery to administer an integrated waste management program. Current law establishes a goal that statewide landfill disposal of organic waste be reduced from the 2014 level by 75% by 2025. This bill, on or before June 1, 2026, would require the Office of Planning and Research, in consultation with the Department of Resources Recycling and Recovery, to develop and post on the office's internet website, a technical advisory, as provided, reflecting best practices to facilitate the siting of composting facilities to meet the organic waste reduction goals. The bill would require the office to consult with specified entities throughout the development of the technical advisory.

Position	Assigned	Group
Watch		ACE, SLC

SB 1046 (Laird D) Organic waste reduction: program environmental impact report: small and medium compostable material handling facilities or operations.

Current Text: Amended: 4/9/2024 [html](#) [pdf](#)

Introduced: 2/7/2024

Last Amend: 4/9/2024

Status: 4/22/2024-From committee: Be ordered to second reading pursuant to Senate Rule 28.8 and ordered to consent calendar.

Location: 4/22/2024-S. CONSENT CALENDAR

Calendar: 4/25/2024 #17 SENATE SENATE BILLS - SECOND READING FILE

Summary: Would require the Department of Resources Recycling and Recovery to prepare and certify, by January 1, 2027, a program environmental impact report that streamlines the process with which jurisdictions can develop and site small and medium compostable material handling facilities or operations, as defined, for processing organic waste, as specified.

Position	Assigned	Group
Watch		ACE, SLC

SB 1135 (Limón D) Greenhouse Gas Reduction Fund: income taxes: credit.

Current Text: Amended: 4/10/2024 [html](#) [pdf](#)

Introduced: 2/13/2024

Last Amend: 4/10/2024

Status: 4/12/2024-Set for hearing April 24.

Location: 4/9/2024-S. REV. & TAX

Calendar: 4/24/2024 9:30 a.m. - 1021 O Street, Room 1200 SENATE REVENUE AND TAXATION, GLAZER, STEVE, Chair

Summary: Current law requires all moneys, except for fines and penalties, collected by the State Air Resources Board from the auction or sale of allowances as part of a market-based compliance mechanism to be deposited in the Greenhouse Gas Reduction Fund. Current law continuously appropriates the annual proceeds of the fund to the various purposes. This bill, in the 2025-26 fiscal year through the 2035-36 fiscal year, would transfer 1% of the annual proceeds of the Greenhouse Gas Reduction Fund, not to exceed \$120,000,000 per fiscal year, to the California Compost Tax Credit Fund, which the bill would establish.

Position	Assigned	Group
Watch		ACE, SLC

SB 1373 (Cortese D) Water data dashboard.

Current Text: Amended: 4/11/2024 [html](#) [pdf](#)

Introduced: 2/16/2024

Last Amend: 4/11/2024

Status: 4/11/2024-From committee with author's amendments. Read second time and amended. Re-referred to Com. on N.R. & W.

Location: 4/3/2024-S. N.R. & W.

Calendar: 4/23/2024 9 a.m. - 1021 O Street, Room 2100 SENATE NATURAL RESOURCES AND WATER, MIN, DAVE, Chair

Summary: The Open and Transparent Water Data Act requires the Department of Water Resources, in consultation with the California Water Quality Monitoring Council, the State Water Resources Control Board, and the Department of Fish and Wildlife, to create, operate, and maintain a statewide integrated water data platform that, among other things, integrates existing water and ecological data information from multiple databases and provides data on completed water transfers and exchanges. This bill would require the department, while seeking input from the California Water Data Consortium, as defined, to create a water data dashboard that is accessible through its internet website, as specified. The bill would include related findings and declarations.

Position	Assigned	Group
Watch	Jessica	ACE, SLC

SB 1374 (Becker D) Net energy metering.

Current Text: Amended: 3/18/2024 [html](#) [pdf](#)

Introduced: 2/16/2024

Last Amend: 3/18/2024

Status: 4/4/2024-Set for hearing April 22.

Location: 2/29/2024-S. E. U., & C.

Summary: Current law requires the Public Utilities Commission to develop a standard contract or tariff, which may include net energy metering, for eligible customer-generators, as defined, with a renewable electrical generation facility, as defined, that is a customer of a large electrical corporation. Current law requires, in developing the standard contract or tariff for large electrical corporations, the commission to take specified actions. This bill would require, no later than July 1, 2025, the commission to ensure that any contract or tariff established by the commission pursuant to the above described provisions for renewable electrical generation facilities configured to serve either multiple customers with meters on a single property, or multiple meters of a single customer on a property or a set of contiguous properties owned, leased, or rented by the customer, meets certain requirements, including that eligible customer-generators are authorized to elect to aggregate the electrical load, as specified.

Position	Assigned	Group
Watch	Jessica	ACE, SLC

SB 1393 (Niello R) Advanced Clean Fleets Regulation Appeals Advisory Committee.

Current Text: Introduced: 2/16/2024 [html](#) [pdf](#)

Introduced: 2/16/2024

Status: 4/3/2024-April 3 set for first hearing. Failed passage in committee. (Ayes 3. Noes 1.) Reconsideration granted.

Location: 2/29/2024-S. E.Q.

Summary: The California Global Warming Solutions Act of 2006 establishes the State Air Resources Board as the state agency responsible for monitoring and regulating sources emitting greenhouse gases and requires the state board to adopt rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emission reductions from those sources. Pursuant to its authority, the state board has adopted the Advanced Clean Fleets Regulation, which imposes various requirements for transitioning local, state, and federal government fleets of medium- and heavy-duty trucks, other high-priority fleets of medium- and heavy-duty trucks, and drayage trucks to zero-emission vehicles. The Advanced Clean Fleets Regulation authorizes entities subject to the regulation to apply for exemptions from its requirements under certain circumstances. This bill would require the state board to establish the Advanced Clean Fleets Regulation Appeals Advisory Committee by an unspecified date for purposes of reviewing appeals of denied requests for exemptions from the requirements of the Advanced Clean Fleets Regulation. The bill would require the committee to include representatives of specified state agencies, other state and local government representatives, and representatives of private fleet owners, the electric vehicle manufacturing industry, and electrical corporations, as provided. The bill would require the committee to meet monthly and would require recordings of its meetings to be made publicly available on the state board's internet website. The bill would require the committee to consider, and make a recommendation on, an appeal of an exemption request denial no later than 60 days after the appeal is made. The bill would require specified information relating to the committee's consideration of an appeal to be made publicly available on the state board's internet website.

Position	Assigned	Group
Watch	Spencer	ACE, SLC

SB 1420 (Caballero D) Hydrogen.

Current Text: Amended: 4/8/2024 [html](#) [pdf](#)

Introduced: 2/16/2024

Last Amend: 4/8/2024

Status: 4/9/2024-Set for hearing April 22.

Location: 4/3/2024-S. E. U., & C.

Summary: Current law requires the State Air Resources Board to adopt hydrogen fuel regulations that ensure state funding for the production and use of hydrogen fuel contributes to the reduction of the emissions of greenhouse gases, criteria air pollutants, and toxic air contaminants, and ensure the production and direct use of hydrogen fuel in motor vehicles also contributes to a reduced dependence on petroleum, as provided. This bill would require the state board to adopt regulations requiring that no less than 33.3% of the retail hydrogen produced for, or dispensed by, fueling stations that receive state funds is made from renewable hydrogen, as provided.

Position	Assigned	Group
Support		ACE, SLC

Total Measures: 21
Total Tracking Forms: 21

CARB ACF Med & Heavy Duty Vehicles 8,500+ lbs. POTW rule review. Section 2013: State and Local Rule. Sec.2015 Fed. Rule. Low Pop. Counties and less than 10 vehicles have until 1/1/27 for 100% vehicle replacement by ZEVs. No req. to end use of existing compliant vehicles only for 13+ year old vehicles. Timeline table to transition. By 2039 Milestone group 2 100%. Biogas use: this regulation limits to those only vehicles purchased by 1/1/24.

- Allows existing and new vehicles purchased by Jan 1st (2024) fueled by biomethane (generated from diverted organic waste) to opt into Milestone Group 3
- CASA expressed need for a market for biomethane while demonstrating biogas-to-hydrogen technologies
- Exemptions/extensions are only available to vehicles 16 years of age or older

Most POTW have registered (req. by 4/1/24) under State & Local Govt. Agency for more flexibility provisions in the future.

AB 1594 allows purchase traditional replacements for medium and heavy duty vehicles. ACG regs. Reopened March 25 to incorporate AB 1594 (removes vehicle age reqs. To be eligible for flexibility provisions). ZEV purchase and daily usage exemptions. SD: in middle of draft of those regs. And ACF sub-group will be meeting. TRIG FAQ document being prepped. Air Resources Board concerned about Biomethane vehicles in idle to help meet LA-South Coast Air Basin Ozone Plan. Q: Boilers and using all heat for digestion (Fresno). Steve Jepsen: 80% **Mobile** sources and very small % are Title V stationary facilities and Section 183 implementation and penalties & if they don't then EPA will step in and implement the penalties. SD: seems to be flaw with focus on stationary facilities and NACWA coordinated with and provided comments to EPA.

AB 1383. 40% Methane reduction (landfill organic waste diversion) by 2030 (relative to 2014 levels). Counties have over restrictive Ordinances for Class A, B and A/EQ land application. Stanislaus, San Joaquin, Tulare, Kern tracking compliance. CARB LCFS: concern no credit for biomethane and also elimination as a transportation fuel and Gov push to zero emissions is being felt across many serving groups. Received so many comments, decided to take more time to redraft these proposals and have more time for comment and workshops. Req. by May 9 comments from workshop. Methane crediting and biomethane as transportation fuel proposed elimination by the State of California is a CASA strong stance against CARB.

US national clean hydrogen strategy specifically mentions hydrogen production from Biomass and Waste Feedstocks. LA Co. offer to demonstrate and life cycle emissions in hydrogen production. V. State of California: Tracking bills. Defining green hydrogen (make sure not limit biogas or as a feedstock) in the production of hydrogen. Not the direction the Air Resources Board wants to go. No one on call respond if looking at Biogas-to-hydrogen production from SD open ask. Steve Jepsen: Pipeline injection is expensive, energy intense and not feasible in all locations but HOW are we going to fund pilot projects and show that it is feasible. Q: LACSD Phillip Vander Klay – Electrolytic Hydrogen. CARB Chair Randolph supportive of Steam reformation Hydrogen production. Ali Chehrebsaz: option to sell hydrogen. Phillip: most hydrogen purchases now from fossil fuels. Our Carson facility close to Port of LA. Legislation wants to push out Steel, fertilizer production. Now it is underdeveloped. LACSD Danielle Dorley: For Carson, v.interested in taking

once we can develop. Big market emerging including one in Antelope Valley and groups ready to take hydrogen. Expect to be operational by 2025. Antelope Valley moving faster than Carson with South Bay Air District. Keep in mind when thinking where to site projects. SD: Folks looking for biogas source or water.

Biosolids. April 2022 Climate Smart Strategy. GHG sequestration of Carbon. Can't attain by 2045 without land management. Look at 7-8 year increments to attain. SD: looking at national and state programs that provide incentives to biosolids use. USDA NRCS; Climate Action Reserve; Healthy Soils Initiative.

AB617 gives CARB authority; AB 2588 hot spots compound list: Original 500 compounds now 1700 compounds that look like could be toxic. Many not relevant to WWTP. Need to determine what is actually detectable and is a threat to receptors. May 1 CARB Meeting. York Engineering project mgr. for phase I to develop an (pooled)emissions quantification plan (study).

SLR hoping OPC remove extreme scenario in SLR Planning Guidance. Recommend Intermediate, Int. High and High with storm conditions. By 2150 SLR 2.6 to 11.9 ft. (ice sheet loss). By 2100 SLR 1.6 to 3.1. June 4th next OPC meeting. Feb. 22: Global and Regional SLR Scenarios for the United States. SD: Reaching out to Coastal Commission to remove extreme scenario in its own guidance. SB 1 SLR Adaptation Planning Grant. Tech. Asst. Program is open. Information webinar April 15 (link in PPT slides). Regional Water Board approach in permits vary by 9 regions + some req. GHG emissions. Nicole DeSantis, San Diego: response is already regulated by Fed. Rules.

State Leg & Gov Budget Jessica and Spencer Saks

\$30 to \$80 State Budget deficit. \$17B in reductions in programs passed in package by legislation w/ mostly clawed back multi-year funding across programs. May revision by May 15. See how April tax revenues came in. Climate Bond being worked on. \$350M to clean water srf; \$600m for water recycling; \$100m for innovative regional biosolids programs. To be put on Nov. ballot. All republican bills stopped and didn't even get a hearing. Hydrogen & methane procurement bill w/amendments only source-separated organics (kind of wonky), this would be a problem, still working with author's office, in appropriations committee now. Hydrogen bills, very big bills, Caballero bill/dfn for clean hydrogen. Creates 2 pathways for qualified clean hydrogen splitting water and does not include fossil fuels. Good for us, creates some pathways. On way to appropriations. AB 2204/Bennett dfns. Problems if connected to grid that connected to fossil fuel use, this would eliminate all of us, bill pulled and second hearing not sent.

Informational item review by SD. EJ Advisory Committee (EJAC). All against Combustion. EJAC review for every scoping plan update on every plan for emissions reduction. Monthly meetings now. 2024 priorities: LCFS; Cap and Trade reg amendments; natural & working lands target setting; CARBs role in SB 905 carbon capture utilization and sequestration reqs. IRA review. Funds to USDA \$19B to multiple programs including EQIP and CSP. Through State Level NRCS – Nov.24: EQIP and March 2025 for CSP. Environmental Quality Incentives Program (EQIP) and Conservation Stewardship Program (CSP). BACT: Best Available Control Technology. Emergency Diesel Engines. Bay Area req. 1/1/10 all be Tier 4 1000+ bhp. Now considering Tier 4 engines greater than 50+ bhp. Comment: Courtney Mizutani: Talked to Facility Mgr. and just plan for Tier 4 for everything. Email this am on AQMDs on Emergency Standby Engines. Kris Flaig, LASAN on Marine Vessels. SD: Timeline? Kris: no clue. CARB Diesel Engine Off-Road Emissions, Tier 5: more reductions Nox and

PM but also first-time GHG (CO2) emissions. Water Research Foundation (WRF) Projects; WRF 5251: NO emissions whole plant monitoring; WRF 5211: Value for Thermal processed to mitigate PFAS in Biosolids by 2026. List of Cross-Media Issues: RO Conc & Brine Mgt; nutrient mgt.; organics diversion, NO emissions; CECs: PFAS, microplastics. Steve Jepsen: Concern to go so deep early on PFAS destruction and any unique method or study & regulator may expand on studies. Add exfiltration and it can be on list.

###



**BOARD MEMBER
MEETING ATTENDANCE REQUEST**

Date: _____ Name: _____

I would like to attend the _____ Meeting
of _____

To be held on the _____ day of _____ from _____ a.m. / p.m. to
_____ day of _____ from _____ a.m. / p.m.

Location of meeting: _____

Actual meeting date(s): _____

Meeting Type: (In person/Webinar/Conference) _____

Purpose of Meeting: _____

Meeting relevance to District: _____
YES NO

Request assistance from Board Secretary to register for Conference:

Frequency of Meeting: _____

Estimated Costs of Travel (if applicable): _____

Date submitted to Board Secretary: _____

Board approval obtained on Date: _____

Please submit this form to the Board Secretary no later than 1 week prior to the Board Meeting.

5/16/2024

BOARD AGENDA ITEM REQUESTS

Agenda Item 6B

- Separate Item to be distributed at Board Meeting
- Separate Item to be distributed prior to Board Meeting
- Verbal Report
- Presentation

CENTRAL MARIN

Plans underway to replace pipes in water system

BY ADRIAN RODRIGUEZ

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The Marin Municipal Water District is gearing up to replace old, leak-prone pipes in San Anselmo and Corte Madera.

The district's board authorized construction contracts last week with Maggiora & Ghilotti Inc. for the two projects.

One contract is for \$2.86 million of work on Sir Francis Drake Boulevard near Archie Williams High School, and the other is for \$4.38 million in the Marin Estates neighborhood around Granada Drive in east Corte Madera.

Although the San Anselmo project is smaller, the traffic implications are much greater as Sir Francis Drake is a major thoroughfare for the greater Ross Valley community, officials said. "It's going to be a tough summer with a lot of construction traffic," said Scott Schneider, assistant director of public works for San Anselmo.

Schneider said that over the last several years there have been a few water main breaks on Sir Francis Drake Boulevard where the cast-iron pipe is 100 years old. One leak shut down all four lanes of the road for several hours in the middle of the school day, Schneider said.

The project will replace about 4,000 feet of pipe with new welded steel pipe on Sir Francis Drake Boulevard between San Francisco Boulevard and Butterfield Road. Another 270 feet of pipe will be replaced on Broadmoor Avenue and 260 feet on Saunders Avenue. Schneider said the upgrade is needed to prevent traffic jams. Town officials are happy to get the project underway, he said.

"We've been talking with the contractor about traffic control and how we can maximize the throughput of traffic and minimize impacts to the traveling public and get the projects constructed as quickly as possible," Schneider said.

Construction is expected no earlier than June 17 to accommodate the end of the school year, said Jessie Underhill, spokesperson for the Marin Municipal Water District.

"To minimize impacts, Marin Water has reduced construction working hours to accommodate peak traffic volumes on Sir Francis Drake Boulevard and the start of the new school year in the fall," Underhill said. The project budget, including contingency, materials, labor and inspection, is \$3.8 million.

The Granada Drive project in Corte Madera is expected to be less disruptive but longer. Construction is expected to get going in May and continue through March.

The \$5.56 million project will replace 10,230 feet of cast-iron pipe with welded steel pipe, valves and other fixtures on roads in the Marin Estates neighborhood, where most of the water lines were installed in 1956. More than 5,300 feet of pipe will be replaced on Granada Drive along with about 1,400 feet on El Camino Drive.

Other pipe replacement will happen on segments of Paloma Drive, Estrada Lane, Sonora Way, Vista Court and Endeavor Drive.

The pipe replacement is going to be done in coordination with the town's annual road paving.

The town paused its plans to repave the neighborhood in 2023 because MMWD was preparing to replace pipes in the same area.

The town is reimbursing the water district \$695,000 so the road paving is part of the same construction contract.

MCE solar project aims to increase power along coast

BY KRISSY WAITE

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Green energy might be more attainable for residents in western Marin because of a new solar project.

A 1-megawatt initiative called the Fallon Two Rock solar project is estimated to power 400 homes by generating 2,300 megawatt hours annually.

The project, located on a 4.5-acre plot in Tomales, is a collaboration between MCE and Santa Clara-based Renewable America. While the project goes toward the energy company's total portfolio, it will first benefit those who subscribe to the clean energy provider in western Marin.

"Electricity is like water, in that it flows to the closest source that needs it," said Jenna Tenney, an MCE spokesperson.

"Because this project is located in Marin, the electricity will go right into the grid and power the closest homes and businesses with clean electricity. In addition, the site allows for continued agricultural use for grazing animals like sheep."

The project is the newest addition to MCE's portfolio, which consists of 48 megawatts of local energy generation.

The site was chosen for its size and zoning, which allowed for solar. The project cost about \$2.2 million and took four years to complete, said Richele Delapaz of Renewable America.

The deal also included \$20,000 from RNA Services LLC, a subsidiary of the solar company, to MCE for workforce development, the utility said.

"Clean energy is just one part of the transition to a sustainable future," Supervisor Katie Rice, an MCE board member, said in a statement. "The additional funding RNA committed will help MCE grow the clean energy economy, providing training opportunities for local residents to enter the green workforce."

Tenney said local renewable energy is a first step toward more resilient communities but perceived cost is often a barrier.

"Many folks believe that if it's more renewable or 'clean' that it must be more expensive," she said. "Clean energy is often more accessible than folks realize."

Local projects such as the Fallon Two Rock initiative are a win because it is expensive to build small-scale local energy generation, which is often more complicated due to regulations in areas where people live, Tenney said.

"Each project like this is a labor of love and we want to celebrate that," Tenney said. "Clean energy is something that everyone deserves access to."

MCE, formerly known as Marin Clean Energy, operates in Marin, Contra Costa, Napa and Solano counties. The company says it serves about 1.5 million residents and businesses in 37 communities.

TIBURON

Town completes purchase of property on waterfront

BY KRISSY WAITE

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Tiburon has closed the deal on a waterfront property purchase from the Richardson Bay Sanitary District.

Escrow on the property at 510 Tiburon Blvd. went through on April 19. The district sold it to the town for \$573,704.05. While final plans for the retired water retention ponds are unknown, the purchase expands the town's open space by 32,820 square feet.

"Tiburon has always been interested in acquiring that property because it is surrounded by our parks," Town Manager Greg Chanis said. "It's a very significant purchase for the town and we're very excited about it."

Chanis said the purchase has taken around three years. Now the town has to complete a state-approved closure plan, which includes draining the ponds and grading the area so it is flat. It also includes removing the pipes, concrete, fence and retaining wall.

Rough estimates for the work needed close the ponds are around \$200,000, according to Chanis. The Town Council budgeted \$800,000 of American Rescue Plan Act funds for the project.

The ponds and the surrounding site were previously used as a wastewater treatment plant, which was decommissioned by the Richardson Bay Sanitary District in 1983, according to the sale agreement. The plant is not part of the sale.

Chanis said part of getting state approval of the sale was doing groundwater and soil testing for potential contaminants. The results raised no concerns.

Mayor Alice Fredericks said the town has received a lot of public comments on potential uses of the space, but no final decision has been made. At a recent meeting, the Town Council reviewed draft plans for the future of its open spaces and parks, which gave some insight on what residents had in mind. However, more information is needed before any plans are finalized.

"Some considerations discussed to determine priorities would be impacts on the neighbors, access and parking, future costs of maintenance, need, including consideration of which recreation activities were offered nearby," Fredericks said.

Vice Mayor Holli Thier said the idea to acquire the ponds emerged around 10 years ago, when she, then a member of the Parks, Open Space and Trails Commission, and former mayor Jeff Slavitz were walking along and stumbled upon the site. They thought it would be a great spot for a community pool — something many residents have voiced a desire for.

"I kept bringing it up and bringing it up and eventually, we started taking a look at acquiring the ponds," Thier said.

"When I started this idea of acquiring the ponds, nobody thought it was possible."

Thier said she believes a pool is possible, but that there needs to be a community process before the Town Council makes any decision on the fate of the space.

"I personally am so excited to see our dream become a reality," Thier said. "It's been a long process, a good process with a lot of Town Council and community input. The community will decide what we do with it. The possibilities are limitless."

SAN RAFAEL CITY SCHOOLS

Property notice rattles leaders of Little League

BY KERI BRENNER

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The Gallinas Valley Little League is scrutinizing San Rafael City Schools' surplus declaration of property that has one of its most active baseball fields.

"There are a lot of unanswered questions about the school district's intentions," league president John Baker said.

At issue is the Old Gallinas property, a 7.9-acre district-owned surplus site at 251 N. San Pedro Road. The league, which has 35 boys and girls teams serving about 400 youths ages 4 to 16, has played at the site for about 65 years, said Richard Nielsen, a league board member.

On March 15, the district published a notice saying that it had "voluntarily and simultaneously issued priority notice of the offering for sale, lease, or lease with option to purchase the Old Gallinas Site, or portion thereof, at fair market value, to otherwise eligible public entities and nonprofit charitable/public benefit corporations."

The district complied with the surplus declaration requirements under the state Naylor Act for four sites in 1983, but took no further action on the properties, said Bob Marcucci, an assistant district superintendent.

The school district has set a public hearing to respond to community questions at 5 p.m. Tuesday at the district office at 310 Nova Albion Way in Terra Linda. Public hearings also are planned this week on the three other surplus properties: McPhail, Glenwood Marsh and the North Corporation Yard sites.

Marcucci said the hearings do not necessarily mean the district is planning to sell the properties, lease them or build on them. The hearings aim to solicit community comments on what would be acceptable dispositions, he said.

"It is the district's desire to make the highest and best use of these properties," Marcucci said in an email. That "could include many outcomes per individual property, including maintaining status quo, enhancing existing partnerships in new ways through leases, etc."

Of the lack of field space in Marin, Nielsen said: "Right now we're getting by."

"If they want to take these sites for housing, then they better have something also for where those kids that are going to be in that housing are going to play," he said.

Nielsen said previous Marin County planning documents have indicated that the Old Gallinas site was planned for housing development, "except for the field," he said.

"They were trying to carve out the field," Nielsen said. "But the school notices and everything else isn't carving anything out."

Surrounding neighborhood associations also plan to attend the public hearings.

"We hope there will be a big showing for both meetings to let the school know they neighbors are concerned about their neighborhoods," said Mary Hanley, a member of the land use committee for the Santa Venetia Neighborhood Association, in letter to area groups. She said her association was most interested in the McPhail and the Old Gallinas properties.

Aside from the athletic field, the Old Gallinas site includes a temporary home for WildCare, the animal rescue nonprofit group, as the organization rebuilds at its original site. A former school building on the property houses a day care center that leases the facility, Baker said.

The Gallinas Valley Little League plays host every summer to All-Stars games for teams from throughout Marin and San Francisco, Baker said.

“The field itself is carefully maintained by GVLL’s professional landscaper at league expense on a year-round basis,” Baker said. “Working with the San Rafael City Schools, we have participated and paid jointly for specific improvements in maintenance of the hardscape, retaining walls, irrigation systems and surrounding landscape maintenance.

Baker said the league would be interested in a 10- or 20-year lease for the athletic field. That would offer more stability than the current system of per-hour rentals that take place five to six days per week from March to October.

“Given the number of players in minors and majors, GVLL could not conduct a season without the Gallinas field, given the lack of available alternative ballparks in the league boundaries,” Baker said.

The Old Gallinas site is the second recent instance in Marin involving concern over field space.

In the fall, the Mill Valley School District considered building a new middle school atop Friends Field, a popular recreation site adjacent to the current middle school, but withdrew its interest after a widespread community outcry.

MARIN MUNICIPAL

Ranchers rip proposal for reservoir expansion

Soulajule dam plan called harmful to communities



Expansion of the Soulajule reservoir is among the proposals of the Marin Municipal Water District to increase water storage capacity. SHERRY LAVARS — MARIN INDEPENDENT JOURNAL, FILE



Water rushes down the spillway at Peters Dam at Kent Lake near Lagunitas. DOUGLAS ZIMMERMAN — SPECIAL TO THE MARIN INDEPENDENT JOURNAL, FILE

BY ADRIAN RODRIGUEZ

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After screening proposals to expand water storage capacity, the Marin Municipal Water District has narrowed its options.

But expansion of the Soulajule reservoir — the district's star prospect — is drawing mounting opposition from neighboring ranchers who fear that their multigenerational homes and ranches will be engulfed by the new footprint created by the larger dam.

As discussed to date, the proposal would elevate the dam by 39 feet, expanding the reservoir by 530 acres, meaning some existing agricultural land would be under water.

"When you consider the relative cost of this project, please know that by raising the Soulajule dam by 39 feet, you will cause us irreparable loss," Carol Dolcini, a West Marin rancher, told district officials at a board meeting Tuesday.

"The people of Marin need reliable and resilient and affordable water supply that can withstand extended drought," she said. "MMWD should be able to achieve this without destroying neighboring communities. Please do not continue to push this destructive plan."

The shortlist of projects, narrowed from 11, also includes expansion of Kent Lake and a proposal to create a new reservoir in the area of upper Nicasio, staff said.

For comparison purposes, each proposal called for an increased storage capacity of 20,000 acre feet of water, said Paul Sellier, the district's water resources manager.

At that size expansion, Kent Lake would need to be raised 37 feet. That would enlarge the footprint by 180 acres.

The creation of a new dam in the area of upper Nicasio would call for construction of a 103-foot dam with a 310-acre footprint.

"At this point, it's a white paper exercise so that we can compare what the impacts are," Sellier said.

"The next steps are to refine them, right-sizing each to see if there is a natural breaking point where less inundation and less impact could be achieved." "Is there an option where there are no impacts to structures? We need to take a close look at that and understand how we minimize impacts," Sellier said.

The discussion was an update on the district's water supply roadmap, approved last year, that set the stage for the district to significantly increase water supply for the first time since the 1980s.

The plan seeks to add another 12,000 to 20,000 acre-feet of annual supply by 2035.

The district serves 191,000 residents in central and southern Marin. Its seven reservoirs make up about 75% of the district's water supply. The reservoirs can hold up to about 80,000 acre-feet of water, about a two-year supply. An acre-foot is about 326,000 gallons of water.

The water supply roadmap estimated the agency would need at least 8,500 acre-feet of additional water per year to weather a severe four-year drought.

So far, a project at Soulajule appears to be the most viable because it is the lowest cost at \$291 million and has the fewest construction hurdles, staff said.

The Kent Lake project is estimated at \$613 million, in part because construction would be limited to three months out of the year because of presence of the protected northern spotted owl, among other challenges.

The upper Nicasio project would also inundate agricultural properties and require water to be transferred from Soulajule or the existing Nicasio reservoir to fill.

It is expected to cost about \$606 million.

Other projects previously considered would either be too complicated, too costly, or both, such as a proposal to raise the Alpine Lake dam 75 feet for \$1.29 billion.

All estimates account only for construction, which board member Monty Schmitt said wasn't a fair representation of the expense.

Schmitt said some of these projects that would inundate private property require the district to purchase land and structures.

He wanted to know what those costs were, too, he said.

Board member Larry Russell said he believes all proposals are out of reach and the district should stop the exercise, and instead, look into upping investments in conservation and desalination as means to boost water supply.

"Pie in the sky is pie in the sky," Russell said.

"You have to look at this cold-heartedly from a pure engineering feasibility standpoint, and you know, there's just better places to spend the money. It's as simple as that to my mind."

Larkspur resident Ed Jameson said he agreed with Russell.

“Cut to the quick. None of these projects make sense and no more should be spent evaluating them, and as he suggested desal looks cheap,” Jameson told the board.

Russell also said that considering the Soulajule expansion “is just unnecessarily riling up the folks that live there.”

Maria Ghisletta, one of the Hicks Valley ranchers near the Soulajule dam, said “many of us are frustrated, fearful, angry. Honestly, emotions run the gamut.”

Ben Horenstein, general manager of the district, said these are big, complex projects that will require difficult conversations.

He said that while staff gets deeper into analysis, they will also be considering other options for water recycling and desalination.

Horenstein said continuing the study is a worthwhile exercise to understand the options.

Board member Matt Samson agreed, saying he’s excited to see the study develop.

Board chair Ranjiv Khush said the last significant water supply infrastructure in Marin was built about 50 years ago, but most was constructed more than 100 years ago.

“I ask what are we going to leave for people that are going to be here a hundred years from now if we don’t have the courage to explore really difficult, challenging, expensive questions,” Khush said.

“So I feel strongly that we should continue this analysis until we have all the data on the table, including impacts on community members, including price tags, including the possibilities of external funding, so that we can make decisions that are defensible, not emotional and not well-founded,” Khush said.

“I also believe it would be very irresponsible to stop this process at this stage and I am encouraged that staff is not going to consider that option,” he said.

SURPLUS PARCELS

Marin groups hope to stay on San Rafael schools site

BY KERI BRENNER

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Two community groups said this week they will submit offers to stay on land owned by San Rafael City Schools.

The Gallinas Valley Little League, which has played games at a baseball field at Old Gallinas for 65 years, and Community Action Marin, which has operated early childhood education services at the property for more than 30 years, say they will bid to continue using the property.

The 7.9-acre site at 251 N. San Pedro Road is owned by the school district and is one of four surplus parcels up for a “priority” public offering. The deadline to submit offers is May 31.

The public offering, which also includes the McPhail, North Corporation Yard and Glenwood Marsh surplus sites, is open to public entities and nonprofit charitable or public benefit corporations, according to Jessika Johnson, attorney for San Rafael City Schools. The district is “ultimately seeking the highest and best use, and fair market value,” Johnson said. Offers could be for all or for a portion of the site, she said.

Gallinas Valley Little League president John Baker said the league would likely submit an offer for a long-term lease.

“We put in about \$30,000 to \$40,000 worth of work on that field,” Baker said after a public hearing on Tuesday. “We plan to put in an offer that will mimic what we’ve already put in.”

The league schedules games and tournaments at the field for up to six days a week for its 35 teams of 400 boys and girls ages 4 to 16. The league rents the field by the hour through the Marin Civic Center facilities use program.

Chandra Alexandre, chief executive officer of Community Action Marin, said her nonprofit also would submit some type of offer to the school district. She had no immediate word on what that would be. “I can’t confirm what we’ll do,” Alexandre said in an email. “It’s TBD.” CAM’s current lease with the school district will expire in June 2026. The center offers child care and other services to low-income families. “We have generations we’ve supported, so much so that it’s a real feeling of family and pride at the center for everyone,” Alexandre said.

“In the last few years, we’ve leveraged our Head Start and state funding to support more on-site services for families,” she said. “We’ve got a production farm there providing over 1,000 pounds of fresh produce each year that goes into the meals our central kitchen prepares for children.”

WildCare animal rescue operation also has a lease at the site that will expire in June 2026. However, WildCare is only using the property temporarily while the organization renovates its facility near Davidson Middle School.

Gina Hagen, a member of the Santa Venetia Neighborhood Association, said her group did not have the resources to submit a bid. However, the association strongly supports all the current uses, as well as other types of “passive recreation” or cultural education projects.

“We really appreciate having the kids be able to play baseball in the neighborhood,” she said of the athletic field. The group also wants to preserve similar uses at the McPhail property. “We would like to see both sites stay in community use,” Hagen said.

Marin supervisor Mary Sackett, whose district includes San Rafael, said she attended Tuesday’s public hearing to learn about the process.

“I was there to listen and learn from San Rafael City Schools alongside the community members who attended,” Sackett said. “I appreciate the presentation given by the school board.”

The Old Gallinas property, which is in unincorporated Marin County, has been identified as a potential site for housing, according to Tuesday’s presentation.

Of the 7.9 acres, 1.7 acres is zoned for 30 housing units per acre. The rest of the property is zoned for 5.8 units per acre. The Marin County housing site list allocates 50 units for the whole property.

Bob Marcucci, the district’s assistant superintendent for business services, said it is not looking to “put cash in its bank account” by selling its surplus properties. The district wants to see if there are uses that would complement the community while also returning fair market value, he said.

“Let’s say a bus company reached out to us and said they’d like to park all their buses at the site,” said Marcucci said, saying he was speaking hypothetically.

“So you’d have 30 to 50 buses idling loudly every morning,” he said. “I don’t think that would work out for the neighborhood.”

DICK SPOTSWOOD

Strategy to create affordable homes fatally flawed

A Los Angeles County Superior Court has just ruled that Senate Bill 9 is unconstitutional. That legislation, which was signed by Gov. Gavin Newsom, allows existing property owners to ministerially split real estate parcels into four different homes.

It was the so-called end of “single family zoning.” Among SB 9’s co-authors are San Francisco’s “Mr. Housing,” Sen. Scott Wiener and Marin/Sonoma state Sen. Mike McGuire.

The petition, “City of Redondo Beach vs. Attorney General Rob Bonta,” was filed by the Southern California municipalities of Redondo Beach, Carson, Torrance, Whittier and Del Mar. Their goal, shared by other towns, homeowner associations and Marin-based Catalysts Institute for Local Control, is to push back on the state government’s efforts to usurp local control of planning in the name of creating affordable housing.

While the ruling has the potential to be a landmark decision, it has a long way to go before achieving that mark. The case will ultimately be appealed to the state Supreme Court. Alternatively, to satisfy the trial court’s concerns, the Legislature could rewrite and resubmit a new version of SB 9.

If the trial court ruling is sustained, “Redondo Beach vs. Bonta” will showcase that the state’s current strategy to create more affordable homes is fatally flawed.

The L.A. court confirmed that “charter cities are authorized to legislate with respect to municipal affairs.” That’s called “Home Rule.” There’s an exception. “The power of a charter city to govern municipal affairs must give way when the state enacts a statute tailored to the resolution of a statewide concern.” This court agreed, “a valid statewide concern is ensuring access to affordable housing” which meets the legal definition of “affordable.”

The blockbuster finding was that Attorney General Bonta “presents no evidence to support the assertion that the upzoning permitted by SB 9 would result in any increase in the supply of below market-rate housing. ... The petitioner (City of Redondo Beach) presented evidence showing “that relaxing single-family zoning — the result of SB 9 — may lead to gentrification and the development of housing for high-income households.”

That demolishes the argument that constructing more million-dollar market-rate homes will cause residential property prices to decrease or stabilize. The demand for homes in coastal California is insatiable. That shouldn’t be a surprise in an economically vibrant locale whose physical beauty and quality of life is legendary. The demand for California coastal zone homes is global.

Undoubtedly, the Golden State needs massive amounts of homes affordable for those in the manufacturing, hospitality, retail, health care and education sectors. Sacramento needs to admit that SB 9-type mandates aren’t going to create many “affordable” homes. To achieve that goal, our state government, which is already in deficit mode, will need to subsidize the construction sector.

Congressional District 2 representing the North Bay and the North Coast is sending seven delegates and one alternate to the Democratic National Convention. The Chicago conclave is set for July 15 to July 18.

The seven delegates and one alternate were selected by active party members from a list of 31 candidates. Traveling as delegates to the Windy City during its hot and humid summer are Susan Boyle, Chris York, Katherine Rice, Crystal Martinez, Tom McInerney, Brian Colbert and Meredith Matthews. The alternate delegate who’ll join the other seven at the convention is Gabe Paulson.

Boyle is Rep. Jared Huffman's alternate on Marin's Democratic Central Committee. McInerney, a major party fundraiser, is past mayor of San Anselmo. Colbert is a member of the San Anselmo council and candidate for District 2 county supervisor. San Rafael resident Crystal Martinez is a Marin Community College trustee. Paulson is a member of the Larkspur council. Matthews is mayor of Arcata in Humboldt County. Rice helped launch Women for Biden-Harris and served on the leadership councils for the LGBTQ+ and Women for Biden-Harris finance coalitions.

Columnist Dick Spotswood of Mill Valley writes on local issues Sundays and Wednesdays. Email him at spotswood@comcast.net.

DAN WALTERS

New battlegrounds emerge in endless housing conflict

At least once a month a new front opens in California's political guerrilla war between state and local officials over housing.

The Legislature and Gov. Gavin Newsom have issued a steady stream of laws and regulations aimed at forcing the state's nearly 500 cities to embrace housing development, particularly apartments for low-income families.

Communities that shun such housing, saying it degrades the bucolic ambience of their neighborhoods, respond by dragging their feet, challenging the state's authority in court or fashioning new barriers. The state counters with threats to cut off funds for public works, more laws that supersede local land use authority, and threats of lawsuits.

Two such clashes have surfaced in recent weeks: one involving Portola Valley, a very affluent village on the San Francisco Peninsula, the other a coalition of cities governed by their own charters, rather than state law.

In January, Portola Valley became one of the first Bay Area communities to have its "housing element" — a plan for meeting housing quotas — approved by the state Department of Housing and Community Development.

By late March, Portola Valley became the first California city to have its housing element decertified. State officials said the town's council had failed to make the necessary changes in zoning to accommodate the 253 housing units in its quota.

Portola Valley's wealthy residents and officials obviously don't want affordable apartments that would alter its rustic atmosphere, but if they continue to stall they run the risk of triggering the so-called "builder's remedy," under which projects could proceed without local approval.

Portola Valley officialdom says it intends to comply with the state's demands, but it's still uncertain whether apartments will actually be built, given land costs and other financial hurdles. Moreover, many neighborhoods have homeowner associations that impose their own rules on what can be built and could try to thwart multi-family projects.

The second battleground is the Los Angeles County Superior Court where Judge Curtis Kin ruled this month that one of the Legislature's most powerful laws aimed at forcing cities to accept more housing does not apply to cities with their own charters.

Senate Bill 9, passed in 2021, effectively ended single-family zoning in California, allowing up to four units of housing to be built on a residential parcel. Five charter cities in Southern California — Redondo Beach, Carson, Torrance, Whittier and Del Mar — joined forces to sue the state, contending that the law does not apply to them.

Judge Kin agreed, ruling that while SB 9 purports to encourage housing affordable to low- and moderate-income families, it does not specifically limit its impact to that category and therefore cannot supersede land use powers of charter cities.

"Because the provisions of SB 9 are not reasonably related and sufficiently narrowly tailored to the explicit stated purpose of that legislation — namely, to ensure access to affordable housing — SB 9 cannot stand," Kin wrote.

While California has nearly 500 incorporated cities, most operate as "general law" municipalities governed by state law, but about a quarter of them, mostly larger cities such as Los Angeles and San Diego, have their own charters. State laws, such as SB 9, can be applied to them only if the state declares a specific and overriding purpose.

The state could — and probably will — appeal Kin's ruling, but the Legislature could also refine the law to make it more specific, either limiting its impact to low-income projects or changing its stated purpose to increase all kinds of

housing.

It's, therefore, likely that the cities that sued and other charter cities will only temporarily benefit, if at all, from Kin's ruling. It's just another skirmish in the never-ending war.

Dan Walters has been a journalist for nearly 60 years, spending all but a few of those years working for California newspapers. His commentary comes via [CalMatters.org](https://calmatters.org), a public interest journalism venture committed to explaining how California's state Capitol works and why it matters. For more, go to calmatters.org/commentary.

Where to see young birds in Marin

BY JACK GEDNEY

IJ CORRESPONDENT

Spring is the nesting season for birds. Last time out, I discussed birdhouses, a valuable preliminary tool for certain cavity-nesting songbirds. But for some birds, the nesting process is already well underway — some babies are already out and about! Today I'd like to talk about how to see and recognize young birds, which is not always as easy as it seems.

In some cases, though, it is. A minority of local birds have what are known as precocial young, meaning that they are able to see and move and feed themselves more or less immediately after emerging from the egg. Such precocial young are easy to identify, being much smaller than their parents and dressed in the familiar downy feathers of youth. While there are relatively few local birds with precocial young, certain species are quite common: Mallards, Canada geese and swans can all be easily seen at local ponds such as Las Gallinas in San Rafael, Stafford Lake in Novato or Ellis Creek in Petaluma. If you want to see cute little baby birds, ducks and other waterfowl, they should be your first stop.

There are a few other birds with precocial young. One of my favorites is the pied-billed grebe, a somewhat duck-like species that bears its stripey little babies on the backs of the parents during their early days. Common mergansers might also be seen giving piggyback rides to their chicks at Alpine or Bon Tempe Lake. The North Bay also has a smattering of shorebirds that breed locally, with American avocets, black-necked stilts and killdeers all producing fuzzy little babies that trot along after their parents on long, gangly legs. Around the woods or your neighborhood, turkeys or quail also have precocial young.

In the backyard and away from the water, almost all birds instead have what are called altricial young — these babies are quite helpless at birth, highly dependent on their parents and unable to walk or fly for weeks. This has some major consequences for our odds of noticing them. First, you probably won't — these young will stay in the nest for at least a few weeks. And when you do see them, newly emerged from the nest, they will be essentially fully grown and equal in size to their parents: You cannot recognize baby songbirds by size. Instead, clues to their youth largely fall into two categories: plumage and behavior.

The degree to which recently fledged backyard birds look similar to their parents varies by species and age. Many birds will look largely the same, while a relatively minority have clearly distinctive patterns. Young robins and bluebirds, for instance, have lots of dots or speckles on their breasts. Young spotted towhees and dark-eyed juncos have an overall streaky pattern instead of the crisp black heads of the adults. Newly fledged house finches will generally resemble adult females, but bear wispy "horns" for the initial days of their life out and about in the world. One subtle clue of appearance is a widespread and reliable indicator of youth, however: the unfeathered area around the edge of the beak known as the gape. This is often relatively prominent, the remnant of the bright-colored mouths that gaped open in the nest to prompt parental feeding.

For birds that look largely the same as their parents, is there any way to identify them as recent fledglings? There can be some behavioral clues. The most common distinctively youthful behavior is begging, in which young birds follow their parents around while they crouch, flutter their wings and open their mouths as they request food. (In some species, adult females will imitate this behavior to solicit "courtship feeding" as they test and prime their male mates for parenthood.) Young birds will also often appear clumsier or uncertain in flight or in pursuit of food — take those moments of hesitation to pull out your binoculars and look for the tell-tale gape or other elements of immature plumage.

May is a wonderful month. Go to the ponds and enjoy the ducklings and goslings. Watch in your yard for streaky or speckly fledglings missing their landings or staring obliviously into the world. And listen for the clamor of the

insatiable young birds, seeking satisfaction for their painful hunger from their diligent, faithful parents.

Jack Gedney's On the Wing runs every other Monday. He is a co-owner of Wild Birds Unlimited in Novato and author of "The Private Lives of Public Birds." You can reach him at jack@natureinnovato.com.

MARIN MUNICIPAL

Drought-like water saving planned

District's new conservation strategy would mirror rules during dry times

BY ADRIAN RODRIGUEZ

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The Marin Municipal Water District is bolstering its strategy on conservation with policy updates and incentive programs designed to reduce water use by hundreds of millions of gallons annually.

The draft "2024 Water Efficiency Master Plan" is a playbook that outlines how water is used today in the county, and how the district can help its 191,000 customers in central and southern Marin cut back.

The plan aims to reduce water use districtwide by more than 1,000 acre-feet a year starting in 2025, with even greater incremental reduction targets beyond that. An acre-foot is about 326,000 gallons of water.

District staffers presented the draft plan to the board at a special meeting on Wednesday.

Carrie Pollard, the district's water efficiency manager, said that while the strategic plan sets a goal to reduce water use by 800 acre-feet in the next five years, planners wanted to set a target that was "aspirational."

"This is an aggressive and realistic goal that we can strive for and really work towards achieving and have a significant impact on water use," Pollard said.

If the plan is implemented, the staff projects reducing another 3,350 acre-feet a year by 2035, and another reduction of 4,160 acre-feet a year by 2045.

To achieve this, the drought response water use would become the new norm for the community over the next few decades, staff said.

Pollard said the plan contemplates goals of 170,000 square feet of turf conversion each year through rebate programs. The plan also looks at a systemwide deployment of wireless metering and customer communication strategies to ensure savings.

The plan proposes sunsetting the high-efficiency toilet rebate and high-efficiency clothes washer programs.

The programs would be replaced by a custom rebate program for commercial, industrial, institutional, irrigation and multifamily home customers.

The rebate of the new program would be a 50% cost share or an amount calculated based on water savings, which ever is lower.

Staff are proposing to update the grey water ordinance to provide customers one of three options when establishing a new connection or making a substantial remodel.

A customer could choose to install drought-tolerant plants in all new or rehabilitated planting areas that total at least 500 square feet and use no- or low-volume irrigation.

A customer could install a grey water system or irrigate the site with recycled water, which is required where recycled water is available.

The plan also proposes updating fixture standards to align with the CALGreen standards for interior plumbing.

The plan also asks staff to look at why some people are motivated by drought or environmental reasons while others are motivated by the expense, and how to appeal to each type of customer to make efforts toward conservation.

Board members said they are encouraged by the draft plan and look to create some synergy between other district efforts.

“I really, really think that we should have our water efficiency efforts tied to the analytics that we’re doing on water supply and storage,” board member Jed Smith said.

The district is considering reservoir expansion proposals that would cost upwards of \$290 million just to construct, he said.

The district is also looking at proposals to connect pipelines between Sonoma and Marin at a cost of \$140 million to \$380 million.

“We have to look at them next to each other and we have to look at how water efficiency and conservation can help drive us to be more sustainable from a water supply perspective for a long time,” Smith said.

Board member Larry Russell agreed, given the extreme costs to expand reservoirs and pump water into Marin.

“What I’d like you to think about is, if we doubled our budget for conservation or tripled, what could we do to improve the return, if anything?” Russell said.

“It would be great if there was some way to understand, should we be investing even deeper, or is there really a limit?” board member Monty Schmitt said.

Another update on the plan is expected at the communications and water efficiency committee meeting on May 15. More information is at marinwater.org.

Parks board reviews study on artificial turf prospects

BY KRISSY WAITE

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Mill Valley might one day convert recreational fields to artificial turf, but a recent analysis revealed no clear options.

City staff presented a synthetic turf feasibility review to the Parks and Recreation Commission on Wednesday. It was the second study since 2020.

Artificial turf uses less water and allows for more usage, but factors such as field ownership and infrastructure could complicate a transition to turf, the report said.

“I think as we continue to need more availability for field space and as we continue to look at ways to save water, which is obviously a precious natural resource, it makes sense to continue to look at options for artificial turf,” commission chair Vanessa Justice said.

Mark Neumann, director of operations and utilities for Mill Valley, said the review is routine and is meant to advise the commission on potential renovations. He said there is no plan to renovate any of the city’s fields yet.

“We’ve discussed it a bit, about what the best field is if we wanted to do it,” Neumann said.

“There’s not a clear, best location. Every location has its downsides.”

Mill Valley maintains seven fields: Friends Field, Bayfront Field, Bell-Ropers Field, Hauke North Field, Hauke South Field, Alto Field and Boyle Field.

These fields are mainly used for recreational sports, such as soccer, lacrosse, baseball, football and softball, which are scheduled by the city’s arts and recreation department.

But the Boyle and Bell-Ropers fields are too small to support soccer, a requirement for evaluating artificial turf prospects, and have been eliminated from further review.

Other factors beyond size that have to be considered include the permitting agency, the soil type — sand is better for sports because it has good drainage, but needs more upkeep and maintenance — and when the most recent renovation was done.

Friends Field is the largest at 130,000 square feet, but would require collaboration with the Mill Valley School District and was renovated in 2019.

Additionally, five of the seven fields require permitting through the San Francisco Bay Conservation and Development Commission, which would add costs and time to the process.

“There’s a lot of considerations,” Justice said. “It’s not cut and dry, and especially because we don’t have a super obvious field to transition to turf and because it is really costly. It’s just not something that will be an easy decision, if that decision is made in the future.”

Development of a turf field could cost between \$6 million and \$12 million.

Neumann said turf would expand the play and practice times for the teams that use the field because they wouldn’t need to shut them down for weather or maintenance as often. Synthetic turf only needs occasional irrigation to keep dust at bay.

“It’s also a playability thing,” Neumann said. “Right now we have two periods each year where we have the fields shut down for rest and renovations. You’d have much more play time for the leagues that are using it.”

Clay-based soil fields, such as Hauke North and Boyle, tend to be unplayable for most of the winter. Justice said there are more people and sports leagues looking to use the city’s fields, and artificial turf could increase availability.

A critical part of maintaining the grass fields for sports throughout the year is irrigation, which amounts to the city’s largest use of potable water.

For example, the sandy soil of Friends Field requires 115,000 square feet of irrigation — or 2,161,129 gallons of water — sourced from the Marin Municipal Water District, according to the review.

The other six fields require about 11 million gallons of water, although some water is sourced from a reclamation plant — mixed with one-third water district water to dilute the salt.

“I think it was just obvious that we’re maybe approaching a fever pitch about field availability and turf and it’s an issue that’s not going to stop being inquired about,” Justice said.

MARIN MUNICIPAL WATER DISTRICT

Study to gauge effects of climate change on dams

Allocation of \$1.06M follows critical grand jury report



Runoff water flows down the Bon Tempe Reservoir spillway in January in the Mount Tamalpais watershed. The Marin Municipal Water District has seven reservoirs. PHOTOS BY SHERRY LAVARS — MARIN INDEPENDENT JOURNAL



Water flows off the spillway at Phoenix Lake near Ross. The district's reservoirs can hold up to about 80,000 acre-feet of water, or about a two-year supply. SHERRY LAVARS — MARIN INDEPENDENT JOURNAL

BY ADRIAN RODRIGUEZ

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The Marin Municipal Water District is embarking on a yearlong study to examine the impact of frequent, severe storms on the utility's seven dams.

The district board authorized spending up to \$1.06 million to evaluate the capacity of the dam spillways, and to use climate change projections to assess potential hazards.

The study is a response to a critical Marin County Civil Grand Jury report published last summer. The watchdog panel said dam safety plans for the Marin Municipal Water District and the North Marin Water District are failing to account for more regular "atmospheric river" storms brought on by climate change.

The grand jury recommended, among other actions, that the water districts update their dam hazard mitigation plans with the latest science on climate change effects on storms.

Elysha Irish, engineering manager for the Marin Municipal Water District, said it has a thorough dam safety program and that the state Division of Safety of Dams has determined the agency's dams to be safe for continued use.

“This effort of confirming our spillway capacity is a proactive and precautionary review given projections of future atmospheric rivers,” Irish said. “The spillway capacity assessment is being performed to ensure the spillways are appropriately sized for our changing climate conditions.”

MMWD operates seven of the eight large dams in Marin. Six are earthen dams, and Alpine Dam is concrete. The reservoirs can hold up to about 80,000 acre-feet of water, about a two-year supply. An acre-foot is about 326,000 gallons.

The agency said its hazard plan was updated in 2022 and contains information on dam failure in relation to climate change.

In addition to the spillway capacity analysis, the study includes a subsurface assessment of the Bon Tempe spillway that will involve surveying cracks in the system.

The study would potentially do similar work at Peters dam at Kent Lake, Seeger Dam at the Nicasio Reservoir and the Soulajule spillway.

“This is really great work, and I appreciate the dedication to safety and being responsive to the grand jury report,” board member Monty Schmitt said. “I know that it’s the intention is to draw attention to dam safety as an issue that affects, frankly, all dams, especially the older they get, and especially given changing climate.”

Schmitt said considering the district is also looking at potentially increasing water storage, it would be good to know if one dam might be a candidate for a safety retrofit, because “that might significantly shift the cost-benefit.”

The North Marin Water District’s dam safety plan is incorporated into the countywide hazard mitigation plan. The plan was last updated in 2018.

Tony Williams, general manager of NMWD, said the district is in the middle of a study in partnership with the county flood district. The analysis of the Novato Creek watershed, where Stafford Lake and its dam are located, includes an analyses of the dam’s structure, incoming flows to the lake and other details.

A draft of the study is expected to be completed this summer, Williams said.

An engineering analysis of a proposed adjustable spillway gate at Stafford dam, which could help increase the reservoir’s storage capacity, is also expected to be presented in the coming months.

The grand jury report also recommended that Marin water suppliers form a committee to plan strategies to prevent potential dam failures.

Earlier this year, the two water districts and the county joined the Center for Western Weather and Water Extremes Water Affiliates Group in an effort to understand extreme weather better.

The group researches atmospheric rivers and other severe weather to improve water management, mitigate flood risk and increase water supply reliability.

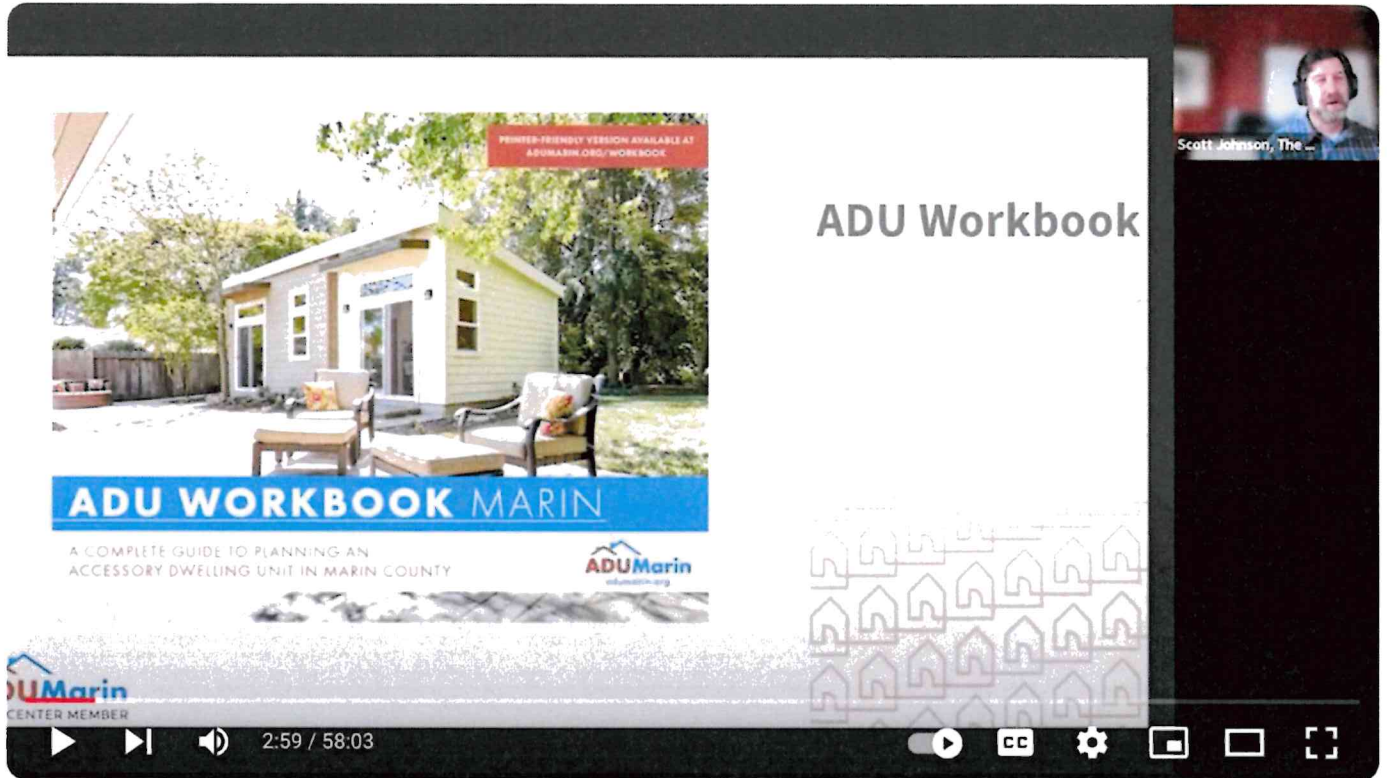
The National Oceanic and Atmospheric Administration says atmospheric rivers are storms that move most of the water vapor out of the tropics. According to the Water Affiliates Group, heavy rainfall from these flows of condensed water is responsible for almost 85% of floods on the West Coast.

At last week’s meeting, Ranjiv Khush, the MMWD board chair, said he is interested in learning if there is agreement between the near-term projections by the Water Affiliates Group and the longer-term projections that will be revealed as part of the new study.

“Keep us updated on the results,” he told staff.

MARIN HOUSING

New nonprofit promotes accessory dwelling units



ADU Marin Building Together: ADU Insights with City Staff in Sausalito, Larkspur, and Corte Madera



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A screenshot from a recent webinar by ADU Marin, an organization that aims to help homeowners understand the process of building the apartments. [YOUTUBE.COM – WATCH?V=EJDDZDRTQ58](https://www.youtube.com/watch?v=EJDDZDRTQ58)

BY GIUSEPPE RICAPITO

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A new Marin nonprofit organization is promoting accessible dwelling units as a solution to the state housing shortage.

ADU Marin is working with officials in San Anselmo, Mill Valley, Fairfax, Larkspur, Sausalito, Novato, San Rafael, Corte Madera, Ross and the county to provide information on developing the apartments, also known as granny flats or in-law units.

The organization launched a website, ADUMarin.org, on April 1. A series of recorded webinars featuring local building and planning officials has been uploaded to the site.

“We think ADUs are a really good solution for Marin,” said Scott Johnson, the nonprofit’s director. “It’s not the only solution, but we think it is a very powerful one.”

An ADU is an independent apartment on a lot with a primary residence or where one is proposed. ADUs are generally smaller than primary residences and can function as rental housing or housing for family members.

The webinars aim to inform residents about the rules in each municipality. State laws regulate the development of ADUs in terms of size, height and other objective development standards, but each municipality is allowed to pass ordinances modifying ADU rules.

Since the website launched, nearly 50 residents of Marin have sought consultations with the nonprofit for more information on how to build ADUs, Johnson said.

“Homeowners aren’t developers. It is a complex process and the organization is here to help homeowners get up to speed,” he said. “This in-depth support wasn’t around before we were here.”

Various municipalities have pushed for ADUs as a potential solution to limited space and burdensome state requirements for housing development, and as a way for homeowners to generate additional income.

Under a state mandate, the county and its municipalities must facilitate the development of 14,405 new homes in the 2023-31 planning cycle. If ADUs can take a sizable chunk out of that number, all the better, officials said.

Steve Marshall, a city planner in Novato, said during a webinar that the city is updating its ordinance to better align with the state mandate. The edict requires Novato to accommodate 2,090 new dwellings during the planning cycle.

Marshall said ADUs could proliferate as residents become more comfortable with them.

“We took a perspective that what we wanted to do was to distill state law into a usable format,” he said.

Margaret Kavanaugh-Lynch, a planner in San Rafael, called the effort a continuous task to align local codes with state law in order to better facilitate development. San Rafael’s share of the state mandate is 3,220 new residences.

“We are a pro-housing city,” she said. “We are trying to find ways to get to yes using the development standards laid out in our municipal code and as augmented by HCD, by the state of California.” HCD is the California Department of Housing and Community Development.

Bill Hansell, chief building official for Larkspur, which must accommodate 979 new residences, said one of the biggest hurdles is informing the public about planning requirements and building laws.

“They still need to comply with basic building safety codes,” he said.

ADU Marin is a spinoff of a larger group, Napa Sonoma ADU, which has performed about 600 consultations since 2020, Johnson said. About 73% of people engaged with the nonprofit are in the process of getting an ADU or have completed one.

Johnson hopes that the group can see the same success in Marin.

“The market is just not building this stuff,” he said. “Construction is hard enough. ADUs are a fundamentally different development model and they lead to different outcomes than the traditional market. There’s nothing else like it.”



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US House Passes Historic Legislation Defining Special Districts in Federal Law



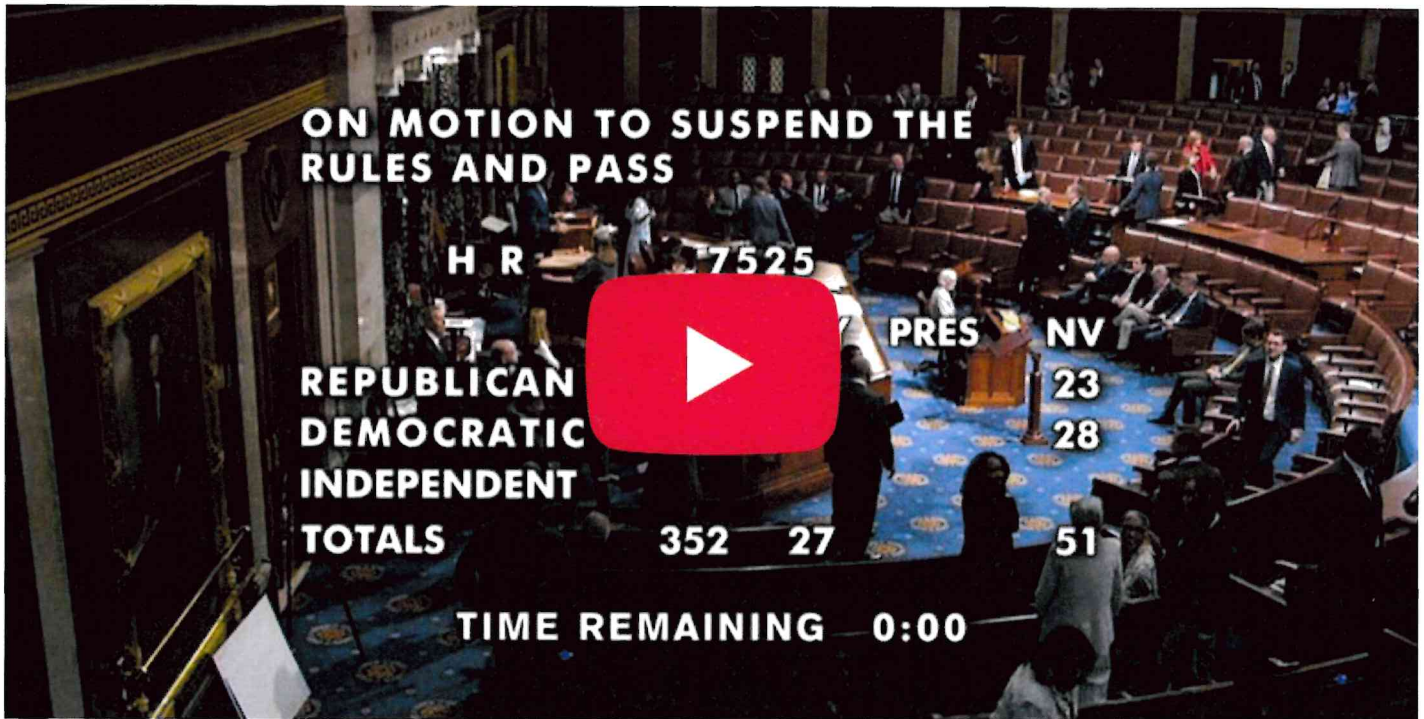
By Vanessa Gonzales posted 2 hours ago

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By @Kyle Packham

Federal Legislation Would Open Funding Opportunities for Special Districts Providing Essential Services to Nearly All of California's 39 Million Residents

Chat-How Can We Help?



Yesterday, in a major victory for special districts and the National Special Districts Coalition (NSDC), the U.S. House of Representatives overwhelmingly passed the *Special District Grant Accessibility Act (H.R. 7525)*, legislation that would codify a first-ever definition of “special district” in federal law. Additionally, the bill would direct the White House Office of Management and Budget to require federal agencies to ensure that special districts are eligible for all appropriate forms of federal assistance.

The bipartisan legislation, which cleared the House on an overwhelming 352-27 vote, is authored by Representatives Pat Fallon (R-TX) and Brittany Pettersen (D-CO) and was cosponsored by 14 Members of the California Congressional Delegation from both sides of the aisle. Action now turns to the Senate, where NSDC is working with key Members in an effort to advance a companion measure.

Over 250 special districts and other organizations sent letters or signed CSDA’s April 9 Coalition letter to California’s Congressional Delegation in support of H.R. 7525. Special districts and other organizations not listed on the April 9 letter are encouraged to sign-on using this online form to be added to an updated letter CSDA will soon send to California’s United States Senators.

The Special District Grant Accessibility Act is the top priority of NSDC, of which CSDA is a founding member. Last week, CSDA Chief Executive Officer Neil McCormick and Chief Advocacy and External Affairs Officer Kyle Packham traveled to Washington D.C. together with special district representatives from eight other states. The contingent met with the White House Office of Intergovernmental Affairs and over 20 legislative offices including the offices of California’s Senator Alex Padilla and Senator Laphonza Butler.



While in Washington, CSDA was honored to join the coalition in meeting with the sponsor and original cosponsor of the Special District Grant Accessibility Act. Representatives Fallon and Pettersen both spoke on the House Floor in support of H.R. 7525:

- [Congressman Pat Fallon \(R-TX\) Floor Speech](#)
- [Congresswoman Brittany Pettersen \(D-CO\) Floor Speech](#)

Following passage of the legislation, the sponsor and original co-sponsor released the following quotes respectively in a nationwide press release:

“The consequence of current law is some communities served by special districts cannot access certain federal funding opportunities, which has a huge impact on the ability of special districts to provide vital services and meet community needs,” Congressman Fallon said. “H.R. 7525 re-sets the board and ensures special districts have the resources, autonomy, and flexibility to address the unique challenges and opportunities facing their communities.”

“There are 3,500 special districts in Colorado alone, which are responsible for critical services for our communities ranging from drinking water and wastewater management, to health care, transit, and natural resource conservation,” said Congresswoman Pettersen.

“Unfortunately, special districts have not had a specific definition under federal law,

meaning Coloradans in these areas are missing out on federal funding opportunities that help other communities with reliable ambulance service, wildfire protections and firefighters, pandemic response services, and more. I'm proud to work on this bipartisan bill with Congressman Fallon to help us better adapt to the complexity of local governments and ensure Coloradans and people across the country have access to the support they need."

H.R. 7525 would require the White House Office of Management and Budget to issue guidance to federal agencies requiring special districts to be recognized as local governments for the purpose of federal financial assistance determinations. Specifically, H.R. 7525 would establish the following definition in Federal law (Title 13 of US Code):

"The term 'special district' means a political subdivision of a State, with specified boundaries and significant budgetary autonomy or control, created by or pursuant to the laws of the State, for the purpose of performing limited and specific governmental or proprietary functions that distinguish it as a significantly separate entity from the administrative governance structure of any other form of local government unit within a State."

"Since the formation of California's first special district in 1887, the now 2,000 independent special districts in our state have confronted some of our nation's biggest challenges at the local level, be they drought, flood, fire, and more," said Neil McCormick, Chief Executive Officer of the California Special Districts Association and Immediate Past Chair of NSDC. "Passage of H.R. 7525, the Special District Grant Accessibility Act, by the United States House of Representatives is a historic moment in recognizing the value of special districts to the communities they serve and improving intergovernmental partnership as we confront the many challenges ahead."

"We're extremely grateful to Representatives Fallon and Pettersen for their strong leadership on behalf of special districts and for marshaling this historic bill through the House," said Ann Terry, Chair of the National Special Districts Coalition (NSDC). "We hope today's overwhelming vote in the House sets the stage for timely action in the Senate and will carry H.R. 7525 through to the President's desk, where it will be signed into law."

According to NSDC, there are more than 35,000 special districts in the U.S. providing a range of infrastructure and essential community programs across the country including parks, water, sanitation, fire protection, ports, cemeteries, healthcare, electricity, pest control, and libraries.

For more information on H.R. 7525, visit [Special District Grant Accessibility Act - California Special Districts Association \(csda.net\)](https://www.csda.net/blogs/vanessa-gonzales/2024/05/07/us-house-passes-historic-legislation-defining-spec?utm_source=informz&utm_medium=em).

Bird watchers in Bay Area savor peak migration time

A chance to experience faraway places at home



A duck glides across the water at the Las Gallinas Ponds in San Rafael. ALAN DEP — MARIN INDEPENDENT JOURNAL

BY CAELYN PENDER

BAY AREA NEWS GROUP

If the cost of living in the Bay Area has made travel too expensive, Matthew Dodder has another idea for how to experience the sights and sounds of faraway places: bird-watching.

"You're basically seeing the world in motion," said Dodder, executive director of the Santa Clara Valley Audubon Society. "You are seeing continents move, so to speak."

Early May is an ideal time to break out the binoculars as the number of birds migrating through the Bay Area peaks for the season, with thousands taking flight each night on their annual trek northward for summer.

From Monday night into Tuesday morning, an estimated 272,100 birds crossed Marin County, according to a map compiled by BirdCast, a collaboration among scientists at Cornell University, Colorado State University and the University of Massachusetts Amherst to track and predict bird migration. By comparison, the number was 483,300 in Sonoma County, 359,700 in Santa Clara County and 77,100 in San Francisco.

The migration marks an exciting time of year for birders and naturalists, Dodder said, and is also a great opportunity for people with an interest in birds to take the time to look for species just arriving and passing through.

Bird-watchers are likely to see not only more birds but also more species of bird than usual, said Dr. Katie LaBarbera, a scientist at the San Francisco Bay Observatory.

Amateur bird-watchers need only a notebook, a field guide and a birding app to get started, although binoculars can take the activity to the next level, according to a guide from the National Audubon Society. The birds will be most active in the morning, starting after sunrise up until 10 a.m., LaBarbera said. "As long as you get out of your downtown, you're probably going to see something," LaBarbera said. But "you will have to wake up earlier than you think" and "sit and be quiet for a little bit."

Experts said beginner bird-watchers are likely to see migrating birds in almost any natural area, but there will be more passing by the coast and through canyons, making locations such as the Hayward Regional Shoreline, Mitchell Canyon or Coyote Hills Regional Park ideal. Even going to large parks in San Francisco, such as the Presidio, are likely to result in some sightings.

Good viewing spots in Marin include Corte Madera's Shorebird Marsh and at the Las Gallinas Sanitary District ponds in north San Rafael.

Aspiring bird-watchers will need to summon their patience and use all their senses for bird sightings. Look for flashes of bright colors in the bushes and listen closely, Dodder said.

"You're going to be hearing sounds you haven't heard in months," he added.

Many bird species that migrate to the Bay Area come for the natural resources, such as the nutritional bounty of native plants and insects, Dodder said. Some species come from as far as South America, such as the flycatcher family, which weighs only an ounce and makes the flight to the Bay Area twice per year.

"These migration routes have been determined over thousand and thousands of years," Dodder said.

Some birds will be sticking around in the Bay Area for the next several months, but for others, the region is just one stop on the route to a summer in Alaska or northern Canada. Other winter birds, such as geese, ducks and gulls, leave the Bay Area for the summer and will return in the fall migration. Now marks the last chance to see these birds until they return later this year.

Experienced bird-watchers recommend looking out for warblers, orioles and western tanagers, to name a few. Apps released by the Cornell Lab of Ornithology, such as eBird and Merlin Bird ID, can help amateur bird-watchers keep track of sightings and identify species, said Daniel Karp, a biology professor at the University of California at Davis.

"It's this incredible treasure trove of information," Karp said.

Many smaller species of birds will migrate primarily at night, despite not being nocturnal, said LaBarbera. Birds use a combination of natural navigation skills to get to their destination, including a sense of magnetism in their heads that tells them which direction they are flying and the ability to identify and follow the North Star, according to experts.

During the day, they will largely focus on refueling, making them easier to spot, LaBarbera said.

The long treks of these bird species have their challenges, but "the reward if you succeed in making it to your destination is enormous," Dodder said. Birds face obstacles such as window strikes, bright city lights disrupting their natural guidance systems and house cats.

For those who wish to help birds along on their journey, Dodder recommends changing bright blue house lights to warmer yellows, as well as turning down their intensity and pointing lights toward the ground if possible. Turning off the lights on one house at night can be helpful, LaBarbera added, even if neighbors do not.

“Light is additive, so one less light is still good,” she said.

Karp, who has been bird-watching since he was 8, plans to take part in Global Big Day, a worldwide bird-watching event Monday where participants can report their sightings to eBird.

Karp said he plans to bird-watch for 24 hours straight with the aim of seeing more than 200 bird species, but amateur bird-watchers will not need to commit as much time as Karp to appreciate the migrating birds this spring.

“Bird-watching really opens your eyes to a lot of beauty that exists around you,” said Maya Xu, a junior at Stanford University and an officer for the school’s bird-watching club. “I can’t go anywhere now without appreciating the bird life around me, and I feel like it just makes my life that much richer.”

‘Surplus’ still has some value for community

The San Rafael City School District is diving into hot political waters.

They need only ask their colleagues in the Ross Valley and Mill Valley school districts.

San Rafael is taking a fresh look at its ledger of properties. Some may be viable sites for housing — and for generating income for the district’s budget.

Many Marin districts, having closed campuses due to cycles of declining enrollment, have become long-term landlords, renting out surplus school facilities and generating revenue it could use for capital improvements and repairs for their campuses and other properties.

In recent years, the dilemma has been over what to do with community-based tenants that are renting closed schools. That’s the quandary facing San Rafael officials.

In Mill Valley, there is a longstanding agreement between the city and the school district that let the city turn school district land into sports fields with the city taking responsibility for the improvements and maintenance.

In Ross Valley, the district stirred controversy with its vote to evict the Fairfax-San Anselmo Children’s Center from Fairfax’s Deer Park School, the popular center’s home for decades. The district based its decision on warnings about safety of the old school and worries about its liability. After months of discord, an agreement was struck to sell the property to a community-based nonprofit organized to not only keep the center, but also promised to make needed repairs.

In Mill Valley, the school board sparked a community dispute when it considered taking back its property to build a new middle school. That scenario promised to save the district money over building the middle school on its current site and installing portables for temporary classrooms during construction.

The proposal generated so much political opposition, including threat of a lawsuit, that the school board dropped it.

In both cases, the decision sided with preserving community-serving uses.

San Rafael is considering its varied properties to determine whether any could be declared surplus and sold.

Leaders of the Gallinas Valley Little League were surprised to find the ballfields they rent and maintain at the old Gallinas School campus in Santa Venetia on that list. Their baseball fields — diamonds that are counted as among the best in Marin — are used by 400 boys and girls, ages 4 to 16.

That real estate plays an important and healthful role in their lives and it cannot be easily replaced.

It comes as no surprise, league leaders are fighting to keep the district from posting “For Sale” signs on the campus.

The district could use the revenue, and sites for needed housing are few, but school officials also need to give priority to community-serving uses and the property’s public ownership.

The district says it is “ultimately seeking the highest and best use, and fair market value” for its surplus properties.

So where does a treasured Little League ballfield fit into that goal? What about the early childhood education services that Community Action Marin has held at the old school?

Taxpayers originally acquired the property to be used by the community. As the need for the property for a school has diminished amid the enrollment decline, needs of the community have not.

In the case of Gallinas School, its role in meeting the needs of youth recreation and for early childhood education service have not diminished. They should remain a community priority that the school district should strive to protect in its decision-making process.

School officials shouldn't approach the decisions as private real estate investors. They are holders of community property and should weigh what is best for the community. The "highest and best use" is not always one that generates the highest price.

Nonprofit tenants need to pay their way. The district's ongoing costs of maintaining and repairing surplus properties have to be covered, but a negotiated break-even lease is a fair and community-serving strategy.