



The Mission of the Las Gallinas Valley Sanitary District is to protect public health and the environment by providing effective wastewater collection, treatment, and recycling services.

DISTRICT BOARD
Megan Clark
Rabi Elias
Craig K. Murray
Judy Schriebman
Crystal J. Yezman

DISTRICT ADMINISTRATION
Mike Prinz,
General Manager
Michael Cortez,
District Engineer
Mel Liebmann,
Plant Manager
Greg Pease,
Collection System/Safety Manager
Dale McDonald,
Administrative Services Manager

BOARD MEETING AGENDA

May 6, 2021

On March 12, 2020, Governor Newsom issued Executive Order N-25-20, which enhances State and Local Governments' ability to respond to COVID-19 Pandemic based on Guidance for Gatherings issued by the California Department of Public Health. The Executive Order specifically allows local legislative bodies to hold meetings via teleconference and to make meetings accessible electronically, in order to protect public health. In light of this, May 6, 2021 meeting of the LGVSD Board will be held via Zoom electronic meeting. There will be NO physical location of the meeting. Due to the current circumstances, there may be limited opportunity to provide verbal comments during the meeting. Persons who wish to address the Board for public comment or on an item on the agenda are encouraged to submit comments in writing to the Board Secretary (tlerch@lgsd.org) by 5:00 pm on Wednesday, May 5, 2021. In addition, Persons wishing to address the Board verbally must contact the Board Secretary, by email (tlerch@lgsd.org) and provide their Name; Address; Tel. No.; and the Item they wish to address by the same date and time deadline for submission of written comments, as indicated above. Please keep in mind that any public comments must be limited to 3 minutes due to time constraints. Any written comments will be distributed to the LGVSD Board before the meeting.*

**Prior to the meeting, participants should download the Zoom app at:
<https://zoom.us/download>.*

REMOTE CONFERENCING ONLY
Join Zoom Meeting online at:

<https://us02web.zoom.us/j/86791124871>

OR

By teleconference at: +16699009128 Meeting ID: 867 9112 4871

MATERIALS RELATED TO ITEMS ON THIS AGENDA ARE AVAILABLE FOR PUBLIC INSPECTION ON THE DISTRICT WEBSITE WWW.LGVSD.ORG

NOTE: Final board action may be taken on any matter appearing on agenda

Estimated Time

OPEN SESSION:

3:30 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.

3:35 PM

2. 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 9th and April 15 and April 20, 2021
- B. Approve the Warrant List for May 6, 2021
- C. Approve Schriebman attending the Marin LAFCo Shared Services Webinar on April 29, 2021

Possible expenditure of funds: Yes, Item B and C

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

3:45 PM

3. PUBLIC HEARING FOR ORDINANCE NO. 186 ADDING CHAPTER 10, ACCESSORY DWELLING UNITS AND JUNIOR ACCESSORY DWELLING UNITS, TO TITLE 2, DISTRICT REGULATIONS, OF THE ORDINANCE CODE OF THE LAS GALLINAS VALLEY SANITARY DISTRICT

Board to consider the adoption of Ordinance No. 186 – An Ordinance adding Chapter 10, Accessory Dwelling Units and Junior Accessory Dwelling Units, to Title 2, District Regulations, of the Ordinance Code of the Las Gallinas Valley Sanitary District

Possible expenditure of funds: None

Staff recommendation: Board Adopt Ordinance No. 186, An Ordinance Adding Chapter 10, Accessory Dwelling Units and Junior Accessory Dwelling Units to Title 2, District Regulations, of the Ordinance Code of the Las Gallinas Valley Sanitary District and Approve Resolution 2021-2212, A Resolution Adopting Ordinance 186

4:00 PM

4. INFORMATION ITEMS:

STAFF/CONSULTANT REPORTS:

- 1. General Manager Report – Verbal
- 2. SCADA Support Services FY 21-22 – Written
- 3. Quarterly Financial Reports & Treasurer’s Reports as of March 31, 2021 – Written

- 4. Secondary Treatment Process Upgrade and Recycled Water Expansion Project Update – Presentation
- 5. District Correspondence - Written

5:20 PM **5. BID AWARD – BIOSOLIDS SURFACE INJECTION AND RECLAMATION PASTURELAND IRRIGATION OPERATIONS AND MAINTENANCE SERVICES**
 Board to review and approve Biosolids Surface Injection and Reclamation Pastureland Irrigation Operations and Maintenance services.

5:30 PM **6. WILL SERVE SIGNING AUTHORITY**
 Board to review and authorize District Engineer to issue Will Serve Letter(s) of behalf of the Las Gallinas Valley Sanitary District for items not requiring Board Actions, per District Ordinance.

5:40 PM **7. BOARD NORMS SUMMARY DOCUMENT**
 Board to review and approve the Board Norms Summary Document.

5:55 PM **8. 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.

6:00 PM **9. BOARD MEMBER REPORTS:**

- 1. CLARK
 - a. NBWA Board Committee, NBWA Conference Committee, Ad Hoc Admin Building Committee, Other Reports
- 2. ELIAS
 - a. NBWRA, Ad Hoc Engineering Committee re: STPURWE, 2021 GM Evaluation Ad Hoc Committee, Ad Hoc Admin Building Committee, Other Reports
- 3. MURRAY
 - a. Marin LAFCO, CASA Energy Committee, 2021 GM Evaluation Ad Hoc Committee, 2021 Legal Services Ad Hoc Committee, Marin Special Districts Association, Other Reports
- 4. SCHRIEBMAN
 - a. Gallinas Watershed Council/Miller Creek Watershed Council, JPA Local Task Force NBWA Tech Advisory Committee, Other Reports
- 5. YEZMAN
 - a. Flood Zone 7,CSRMA, Ad Hoc Engineering Committee re: STPURWE Engineering Subcommittee, 2021 Legal Services Ad Hoc Committee, Other Reports

6:15 PM **10. BOARD REQUESTS:**

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

C. Pending Board Agenda Item Requests

- i. INFORMATION - Pump Station Vegetation and Safety Report
- ii. ACTION - Relocation Assistance Act Policy for Real Estate Acquisitions
- iii. INFORMATION – ERAF Allocation/Formula
- iv. ACTION –Employee Climate Report
- v. INFORMATION – Admin Building, Site 5 Conceptual Presentation

6:25 PM 11. VARIOUS INDUSTRY ARTICLES

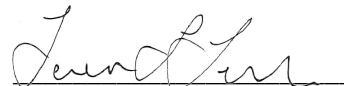
6:30 PM 12. ADJOURNMENT

FUTURE BOARD MEETING DATES: MAY 10, MAY 20, JUNE 3, 2021

AGENDA APPROVED:	Crystal J. Yezman, Board President	Patrick Richardson, Legal Counsel
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CERTIFICATION: I, Teresa Lerch, District Secretary of the Las Gallinas Valley Sanitary District, hereby declare under penalty of perjury that on or before May 3, 2021 at 3:30 p.m., I posted the Agenda for the Board Meeting of said Board to be held May 6, 2021 at the District Office, located at 101 Lucas Valley Road, Suite 300, San Rafael, CA.

April 29, 2021



Teresa L. Lerch
District 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 2A
Date May 6, 2021

MEETING MINUTES OF APRIL 9, 2021

THE BOARD OF DIRECTORS AND STAFF OF THE LAS GALLINAS VALLEY SANITARY DISTRICT MET IN OPEN SESSION BY ZOOM CONFERENCE ON APRIL 9, 2021 AT 9:03 AM AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300, SAN RAFAEL, CALIFORNIA.

- BOARD MEMBERS PRESENT:** M. Clark, R. Elias, C. Murray, J Schriebman and C. Yezman
- BOARD MEMBERS ABSENT:** None
- STAFF PRESENT:** Mike Prinz, General Manager; Dale McDonald, District Treasurer, Mike Cortez, District Engineer; Irene Huang, Associate Engineer
- OTHERS PRESENT:** None.
- ANNOUNCEMENT:** President Yezman that the agenda had been posted as evidenced by the certification on file in accordance with the law
- 1. PUBLIC COMMENT:** None

2. ADDRESS QUESTIONS RAISED DURING THE MEETING OF APRIL 1, 2021

Staff and Board discussed answers to questions related to the April 1, 2021 Sewer Rate Study presentation and gave feedback to be considered for inclusion into the final Sewer Rate Study.

Yezman left the meeting at 10:05 a.m.

3. ADJOURNMENT:

ACTION:

Board approved (M/S Schriebman/Murray 4-0-1-0) the adjournment of the meeting at 10:46 a.m.

AYES: Clark, Elias, Murray and Schriebman.

NOES: None.

ABSENT: Yezman

ABSTAIN: None.

The next Board Meeting is scheduled for April 15, 2021 3:30 PM at the District Office.

ATTEST:

Dale McDonald, District Treasurer

APPROVED:

Megan Clark, Board Vice-President

SEAL

MEETING MINUTES OF APRIL 15, 2021

THE BOARD OF DIRECTORS OF THE LAS GALLINAS VALLEY SANITARY DISTRICT MET IN OPEN SESSION BY ZOOM CONFERENCE ON APRIL 15, 2021 AT 3:31 PM AND STAFF BY ZOOM CONFERENCE AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300 CONFERENCE ROOM, SAN RAFAEL, CA. 94903

BOARD MEMBERS PRESENT: M. Clark (arrived at 3:34 pm), R. Elias, C. Murray, J. Schriebman (arrived at 3:32 pm) and C. Yezman

BOARD MEMBERS ABSENT: None.

STAFF PRESENT: Mike Prinz, General Manager; Teresa Lerch, Board Secretary; Dale McDonald, District Treasurer; Mike Cortez, District Engineer; Mel Liebmann, Plant Manager

OTHERS PRESENT: Pat Richardson, District Counsel; Adam Butler Kennedy-Jenks; Louise White, ESA; Jason Yakich, WRA; Ray Goebel, EOA; Erik Hawk, Marin Sonoma Vector Control; Barbara Salzman, Marin Audubon Society; Ed Nute; Shawn Koorn HDR;

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

1. PUBLIC COMMENT: None

2. 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 March 25, March 29th and April 1, 2021
- B. Approve the Warrant List for April 15, 2021
- C. Approve Board Compensation for March, 2021.
- D. Approve Murray attending Best Practices to Manage Public Spaces Webinar April 21, 2021

ACTION:

Board approved (M/S Elias/Schriebman 4-0-1-0) the Consent Calendar items A through D.

AYES: Elias, Murray, Schriebman and Yezman.
NOES: None.
ABSENT: Clark
ABSTAIN: None.

Clark arrived at 3:34 pm.

3. INFORMATION ITEMS:

STAFF / CONSULTANT REPORTS:

1. General Manager Report – Verbal – Prinz reported
2. District Correspondence – Written – Discussion ensued
3. Sea Level Rise Mitigation Presentation by Kennedy Jenks – Cortez reported. Adam Butler from Kennedy Jenks and Louis White from ESA presented to the Board. Discussion ensued.
4. Marsh Wildlife Pond Long Term Vegetation Management Plan – Prinz, Cortez reported. Jason Yakich from WRA, Erik Hawk from Marin Sonoma Vector Control, Ray Goebel from EOA, Barbara Salzman from Marin Audubon and Ed Nute, former LGVSD Board member contributed comments. Discussion ensued.

4. APPROVE COST OF SEWER SERVICE AND RATE STUDY FROM HDR, INC FOR THE TWO-YEAR PERIOD JULY 1, 2021 THROUGH JUNE 30, 2023

Shawn Koorn presented the draft Final Cost of Sewer Service and Rate Study from HDR for the two-year period July 1, 2021 through June 30, 2023. Discussion ensued.

ACTION:

Board approved (M/S Schriebman/Clark 5-0-0-0) the draft Final HDR Cost of Sewer Service and Rate Study for the two-year period July 1, 2021 through June 30, 2023.

AYES: Clark, Elias, Murray, Schriebman and Yezman.

NOES: None.

ABSENT: None.

ABSTAIN: None.

5. APPROVE APPLICATION OF ALLOCATION OF CAPACITY FOR APN 165-220-12 AND 165-220-13 KAISER PERMANENTE – 1650 AND 1655 LAS GAMOS DRIVE AND BOARD TO ACCEPT A NEW SEWER EASEMENT FROM KAISER PERMANENTE

Board reviewed the application of allocation of capacity for Kaiser Permanente – 1650 and 1655 Las Gamos Drive and the new sewer easement from Kaiser. Discussion ensued.

ACTION:

Board approved (M/S Elias/Murray 5-0-0-0) the application of allocation of capacity for Kaiser Permanente for 1650 and 1655 Las Gamos Drive and will accept a new sewer easement from Kaiser.

AYES: Clark, Elias, Murray, Schriebman and Yezman.

NOES: None.

ABSENT: None.

ABSTAIN: None.

6. PUBLIC COMMENT - None

7. BOARD MEMBER REPORTS:

1. CLARK

- a. NBWA Board Committee –written reports
- b. Ad Hoc Admin Building Committee – verbal discussion
- c. Other Reports– verbal report – no report

2. ELIAS

- a. NBWRA– no report
- b. Ad Hoc Engineering Committee—no report
- c. Ad Hoc 2021 GM Evaluation Committee – no report
- d. Ad Hoc Admin Building Committee – no report
- e. Other Reports– no report

3. MURRAY

- a. Marin LAFCO – verbal report
- b. CASA Energy Committee– no report
- c. Ad Hoc 2021 GM Evaluation Committee – verbal report
- d. 2021 Legal Services Ad Hoc Committee – no report
- e. Marin County Special Districts Association – no report
- f. Other Reports – no report

4. SCHRIEBMAN

- a. Gallinas Watershed Council/Miller Creek Watershed Council– verbal report
- b. JPA Local Task Force– no report
- c. NBWA Tech Advisory Committee– no report
- d. Other Reports- no report

5. YEZMAN

- a. Flood Zone 7– no report
- b. CSRMA– no report
- c. Ad Hoc Engineering Committee– no report
- d. 2021 Legal Services Ad Hoc Committee – no report
- e. Other Reports–no report

8. BOARD REQUESTS:

- A. Board Meeting Attendance Requests- Schriebman will submit a request for the LAFCo webinar.
- B. Board Agenda Item Requests- Schriebman requested a Board Calendar reflecting Board Conferences and Board meetings. Board Secretary Lerch responded that she will email the Board a Calendar tomorrow.

Lerch also advised the Board of the upcoming Board Meeting Dates:

April 20	Special Meeting Budget	2:00 pm
May 6	Regular Meeting	3:30 pm

9. VARIOUS INDUSTRY RELATED ARTICLES – Discussion ensued

10. ADJOURNMENT:

ACTION:

Board approved (M/S Clark/Schriebman 5-0-0-0) the adjournment of the meeting at 7:09 p.m.

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

The next Board Meeting is scheduled for April 20, 2021 by Zoom Electronic meeting.

ATTEST:

Teresa Lerch, District Secretary

APPROVED:

Megan Clark, Board Vice-President

MEETING MINUTES OF APRIL 20, 2021

THE BOARD OF DIRECTORS OF THE LAS GALLINAS VALLEY SANITARY DISTRICT MET IN OPEN SESSION BY ZOOM CONFERENCE APRIL 20, 2021 AT 2:03 PM, AND STAFF BY ZOOM CONFERENCE AT THE DISTRICT OFFICE, 101 LUCAS VALLEY ROAD, SUITE 300, SAN RAFAEL, CALIFORNIA. 94903.

BOARD MEMBERS PRESENT: M. Clark, R. Elias, C. Murray (arrived at 2:04 pm), J. Schriebman and C. Yezman

BOARD MEMBERS ABSENT: C. Yezman.

STAFF PRESENT: Mike Prinz, General Manager; Teresa Lerch, District Secretary; Dale McDonald, District Treasurer; Mel Liebmann, Plant Manager; Mike Cortez, District Engineer; Greg Pease, Collections and Safety Manager

OTHERS PRESENT: Pat Richardson, District Counsel;

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

1. **PUBLIC COMMENT:** None

2. **BUDGET WORKSHOP ON PRELIMINARY 2021-22 BUDGET**

McDonald presented the 2021-22 Budget including Revenue, Operation and Maintenance, Debt Service and Capital Outlay Budgets. Discussion ensued. Staff was given feedback to be considered for proposed budget to be presented on May 20, 2021.

3. **APPROVE RESOLUTION 2021-2210 SETTING TIME AND PLACE FOR A PUBLIC HEARING ON THE BUDGET FOR THE FISCAL YEAR 2021-22**

Board reviewed Resolution 2021-2210 setting the time and place for a public hearing on the Budget for the fiscal year 2021-22.

ACTION:

Board approved (M/S Murray/Schriebman 5-0-0-0) Resolution 2021-2210 setting the time and place for a public hearing on Fiscal year 2021-22 to June 17, 2021 3:30 pm.

AYES: Clark, Elias, Murray, Schriebman and Yezman

NOES: None.

ABSENT: None.

ABSTAIN: None.

4. **APPROVE PROPOSITION 218 NOTICE AND RESOLUTION 2021-2211 SETTING TIME AND PLACE FOR THE PUBLIC HEARING ON SEWER SERVICE CHARGE RATES FOR THE FISCAL YEARS 2021-22 AND 2022-2023.**

Board reviewed the Proposition 218 Notice and Resolution 2021-2211 setting the time and place for the public hearing on sewer service charge rates for the fiscal years 2021-22 and 2022-2023. Modifications were suggested by the Board for the Proposition 218 Notice.

ACTION:

Board approved (M/S Schriebman/Clark 5-0-0-0) Resolution 2021-2211 setting the time and place for the public hearing on sewer service charge rates for the fiscal years 2021-22 and 2022-2023 to June 17, 2021 at 3:30 pm.

AYES: Clark, Elias, Murray, Schriebman and Yezman
NOES: None.
ABSENT: None.
ABSTAIN: None.

ACTION:

Board approved (M/S Schriebman/Clark 5-0-0-0) the Proposition 218 Notice with revisions requested by the Board and also set the maximum Sewer Service Rate increase stated in the Proposition 218 notice to be 9% for the fiscal year 2021-22 and 9% for the fiscal year 2022-23.

AYES: Clark, Elias, Murray, Schriebman and Yezman
NOES: None.
ABSENT: None.
ABSTAIN: None.

5. ADJOURNMENT:

ACTION:

Board approved (M/S Schriebman/Murray 5-0-0-0) the adjournment of the meeting at 5:14 p.m.

AYES: Clark, Elias, Murray, Schriebman and Yezman.
NOES: None.
ABSENT: None.
ABSTAIN: None.

The next Board Meeting is scheduled for May 6, 2021 at the District Office.

ATTEST:

Teresa Lerch, District Secretary

APPROVED:

Megan Clark, Board Vice-President

SEAL

Las Gallinas Valley Sanitation District
Warrant List 5/6/2021 DRAFT

Agenda Item 28

Date May 6, 2021

	Date	Num	Vendor	Original Amount	Addition and Adjustment	Total Amount	Description for items
1	5/6/2021	EFT1	ADP Payroll	117,499.81		117,499.81	Paydate & Processing Charges - 4/23/21
2	5/6/2021	N/A	ADT Commercial	25.00		25.00	Monitoring of Front Gate - May
3	5/6/2021	N/A	Allmax Software Support	1,000.00		1,000.00	Operator 10 Data Conversion
4	5/6/2021	N/A	Aqua Engineering	40,885.25		40,885.25	STPURWE - Secondary Plant Upgrades -Bill from June of 2020 (just received) and March
5	5/6/2021	N/A	Aramark	342.94		342.94	Uniform Laundry Service - Week of 3/29 & 4/5
6	5/6/2021	N/A	ArcSine Engineering	2,819.40		2,819.40	Marin Lagoon Pump Station Engineering Services-March
7	5/6/2021	N/A	AT&T	3,353.89		3,353.89	Pump Stations 4/7 - 5/6
8	5/6/2021	EFT2	Bank of Marin	47,335.64		47,335.64	May Loan Payment - Recycled Water Loan
9	5/6/2021	EFT	Bank of Marin Cardmember Services	24,375.64		24,375.64	Credit Card Purchases 3/5 - 4/5
10	5/6/2021	N/A	Banner Bank Escrow	34,049.62		34,049.62	STPURWE- Retention # 25 for Myers & Sons
11	5/6/2021	N/A	Beck Communications	700.00		700.00	Fiber-Optic Cables from Admin Rack to Electrical Building
12	5/6/2021	ACH	Bellecci & Associates	7,668.00		7,668.00	Kaiser & Oakmont Plan Review and Inspection Services, Pass Through Invoices Billed Kaiser and Oakmont Assisted Living
13	5/6/2021	ACH	Breakpoint Sales	1,072.53		1,072.53	Booklet Envelopes & Envelopes w/Address Change
14	5/6/2021	N/A	BullsEye Telecom	227.47		227.47	Monthly Charge for Addl Trunks on Phone System- April
15	5/6/2021	EFT	CalPERS 457 Plan	12,596.00		12,596.00	EE's Contribution to Deferred Comp. Paydates 4/9 & 4/23
16	5/6/2021	ACH	CalPERS CERBT-OPEB	11,630.00		11,630.00	Pre-Fund GASB Payment -May
17	5/6/2021	EFT	CalPERS Health	37,017.33		37,017.33	CalPERS Health- Active & Employer Retiree Share -may
18	5/6/2021	EFT	CalPERS Retirement	40,588.54		40,588.54	EE & ER Payment to Retirement- Paydate 4/9 & 4/23
19	5/6/2021	ACH	Caltest Analytical Labs	1,519.05		1,519.05	Outside Lab Testing
20	5/6/2021	ACH	CATS4U	65,538.60		65,538.60	Air Release Valve & Vault Replacement
21	5/6/2021	N/A	Cintas Corporation	125.34		125.34	Safewasher Service & Filter Replacement
22	5/6/2021	ACH	Contractor Compliance and Monitoring	5,886.46		5,886.46	Labor Compliance-March
23	5/6/2021	ACH	Core Utilities	3,180.00		3,180.00	IT Services - March
24	5/6/2021	N/A	DAC Associates	17,872.50		17,872.50	STPURWE-Geotechnical Construction Support Services
25	5/6/2021	ACH	Denali Water Solutions	23,550.00		23,550.00	STPURWE-Aeration Basin Sludge Hauling
26	5/6/2021	EFT	Direct Dental	1,650.37		1,650.37	Dental Payment- March
27	5/6/2021	EFT	Discovery Benefits	101.00		101.00	FSA Payments
28	5/6/2021	ACH	Downing Heating & Air Conditioning	1,612.70		1,612.70	HVAC System at Jail House Building- Repair
29	5/6/2021	N/A	Durkin Signs	429.66		429.66	Closed Parking Lot Sign

Las Gallinas Valley Sanitation District Warrant List 5/6/2021 DRAFT							
	Date	Num	Vendor	Original Amount	Addition and Adjustment	Total Amount	Description for items
30	5/6/2021	N/A	East Bay MUD	1,157.43		1,157.43	Chemical Bid Participaton Fee
31	5/6/2021	N/A	Federal Express	648.10		648.10	Mailings & Part Returns
32	5/6/2021	ACH	Fishman Supply Company	267.40		267.40	Hot Cups
33	5/6/2021	ACH	Franklin, William (Cole)	372.00		372.00	Membership to CWEA and Test for Line Maintenance Grade 1
34	5/6/2021	ACH	Grainger	258.54		258.54	Air Brake Tubing
35	5/6/2021	ACH	Hach	11,860.87		11,860.87	Turbidity Meter Replacement for the Recycled Water Facility, Service Bracket Kit
36	5/6/2021	N/A	Hazen and Sawyer	9,495.00		9,495.00	Engineering Support Services, Disgester Room MCC #1 Upgrade
37	5/6/2021	ACH	HDR Engineering	5,870.00		5,870.00	Sanitary District Rate Study
38	5/6/2021	ACH	Kennedy/Jenks Consulting	48,909.27		48,909.27	Integrated Wastewater Master Plan, Descanso Force Main Alignment Analysis - McInnis Marsh Restoration - March
39	5/6/2021	ACH	Kennedy/Jenks Consulting	129,770.00		129,770.00	STPURWE - Construction Management & Inspection Service- March
40	5/6/2021	ACH	Kenwood Energy	3,022.50		3,022.50	Energy Management Consulting January & March
41	5/6/2021	ACH	Kleinfelder	1,756.45		1,756.45	STPURWE Construction Inspection & Materials Testing
42	5/6/2021	N/A	Liebert Cassidy Whitmore	1,073.00		1,073.00	Legal Advice/Services - March
43	5/6/2021	N/A	Maggiora & Ghilotti	24,232.55		24,232.55	Sludge Thickener Structure Removal, Retention Miscellaneous Paving Projects
44	5/6/2021	N/A	Marin Ace	223.81		223.81	Misc. Supplies
45	5/6/2021	N/A	Marin/Sonoma Mosquito & Vector Control	70.77		70.77	Mosquito Control @ Ponds
46	5/6/2021	N/A	MuniQuip LLC	21,167.80		21,167.80	Moyno Sludge Pumps- Final Payment
47	5/6/2021	N/A	Myers & Sons Construction	646,942.72		646,942.72	STPURWE- Construction Contract
48	5/6/2021	N/A	North Bay Petroleum	3,061.00		3,061.00	Fuel- Diesel & Unleaded
49	5/6/2021	ACH	Nute Engineering	258.50		258.50	STPURWE - Engineering Services - March
50	5/6/2021	ACH	Nute Engineering	9,241.25		9,241.25	Archive Development, LGVSD Boundary Survey Research
51	5/6/2021	N/A	Operating Engineers #3	1,005.18		1,005.18	Union Dues- Paydates 4/9 & 4/23
52	5/6/2021	ACH	Orion Protection Services	318.50		318.50	Nightly Patrol Smith Ranch Rd. Service for May
53	5/6/2021	EFT	Pacific Crest Group	1,200.00		1,200.00	HR Consulting Services -4/16/2021
54	5/6/2021	N/A	Pacific Crest Group	199.05		199.05	Additional Services Requested
55	5/6/2021	N/A	Pacific Gas & Electric	8,915.89		8,915.89	Electricity at Plant
56	5/6/2021	N/A	Pacific Gas & Electric	2,037.32		2,037.32	CNG Fuel
57	5/6/2021	N/A	Pacific Gas & Electric	25.46		25.46	Solar
58	5/6/2021	N/A	Petty Cash Box	363.66		363.66	Replenish Petty Cash

Las Gallinas Valley Sanitation District Warrant List 5/6/2021 DRAFT							
	Date	Num	Vendor	Original Amount	Addition and Adjustment	Total Amount	Description for items
59	5/6/2021	ACH	Regional Government Services	7,889.25		7,889.25	Contract Services for March (Org Development, Finance)
60	5/6/2021	N/A	Rotork Controls	3,207.97		3,207.97	Replace Seals on Rotork Actuators
61	5/6/2021	N/A	Roy's Sewer Service	2,881.25		2,881.25	Vactor Truck- Clean Out Grit Chamber Twice Due to Valve Reopening
62	5/6/2021	N/A	SiteOne Landscape Supply	31.77		31.77	Nozzle
63	5/6/2021	N/A	Stroupe Petroleum Maintenance	1,920.85		1,920.85	Repair/Maintenance on Pump Registers
64	5/6/2021	N/A	Synectic Technologies	976.50		976.50	Connect Elena's Desk Phone & Cable- Dead Jack
65	5/6/2021	N/A	Terminix	516.00		516.00	Pest Control- Feb, Mar, & April
66	5/6/2021	N/A	TPx Communications	662.40		662.40	Phone Services- April
67	5/6/2021	N/A	United Site Services	1,053.59		1,053.59	Porta Potties for Construction Workers and Water Stopages - March/April
68	5/6/2021	ACH	Univar	3,708.82		3,708.82	Sodium Hypochlorite
69	5/6/2021	EFT	Vision Service Plan	458.70		458.70	Vision- May
70	5/6/2021	N/A	Water Components & Building Supplies	72.70		72.70	Misc. Supplies
71	5/6/2021	N/A	Woodland Center Auto Supply	170.47		170.47	Misc. Supplies
72	5/6/2021	N/A	WRA, Inc.	3,596.54		3,596.54	Miller Creek 5- year Monitoring and Reporting Service
73	5/6/2021	N/A	Zappetini, Inc.	10,000.00		10,000.00	Reclamation Transfer Wood Box Galvanized Catwalks

Do not change any formulas below this line.

TOTAL \$ 1,475,523.57 \$ - \$ 1,475,523.57

EFT1	EFT1 = Payroll (Amount Required)	117,499.81	117,499.81	Approval: Finance GM Board
EFT2	EFT2 = Bank of Marin loan payments	47,335.64	47,335.64	
PC	Petty Cash Checking	0.00	0.00	
>1	Checks (Operating Account)	0.00	0.00	
N/A	Checks - Not issued	847,539.85	847,539.85	
EFT	EFT = Vendor initiated "pulls" from LGVSD	117,987.58	117,987.58	
ACH	ACH = LGVSD initiated "push" to Vendor	345,160.69	345,160.69	
	Total	\$ 1,475,523.57	\$ 1,475,523.57	

Difference: \$ _____

STPURWE Costs 895,085.04

Las Gallinas Valley Sanitary District Reconciliation Detail

6204 · Credit Card at Elan Financial, Period Ending 04/05/2021

Type	Date	Name	Memo	Amount	Balance
Beginning Balance					16,258.84
Cleared Transactions					
Charges and Cash Advances - 86 Items					
Credit Card C...	03/05/2021	Hach Company	Final Effluent Analyzer JOSHUA J BINDER;	-2,889.83	-2,889.63
Credit Card C...	03/05/2021	Petroleum Service	Oil for BERS Compressor JOSHUA J BINDER;	-273.44	-3,163.07
Credit Card C...	03/05/2021	Fisher Scientific Company LLC	Lab Supplies SAHAR GOLSHANI;	-235.20	-3,398.27
Credit Card C...	03/05/2021	Labelmaster	Misc. Labels JOSHUA J BINDER;	-107.60	-3,505.87
Credit Card C...	03/05/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-86.11	-3,591.98
Credit Card C...	03/08/2021	Fisher Scientific Company LLC	Microscope Slides SAHAR GOLSHANI;	-71.41	-3,663.39
Credit Card C...	03/08/2021	Fisher Scientific Company LLC	Hotpipe Stirrer 120 Volt SAHAR GOLSHANI;	-809.39	-4,472.78
Credit Card C...	03/08/2021	Transene Company Inc.	Chemicals for Lab SAHAR GOLSHANI;	-782.09	-5,254.87
Credit Card C...	03/08/2021	Comcast	Internet - 101LVR AMY SCHULTZ;	-360.11	-5,614.98
Credit Card C...	03/08/2021	Amazon.com	Micellanious Office Supplies AMY SCHULTZ;	-322.13	-5,937.11
Credit Card C...	03/08/2021	Alhambra	Water Service AMY SCHULTZ;	-142.37	-6,079.48
Credit Card C...	03/08/2021	Amazon.com	Memory Cards TERESA LERCH;	-83.86	-6,163.34
Credit Card C...	03/08/2021	Summit Signs	Safety Vest YI YING HUANG;	-51.64	-6,214.98
Credit Card C...	03/08/2021	Labelmaster	Misc. Labels JOSHUA J BINDER;	-45.85	-6,260.83
Credit Card C...	03/08/2021	Sonic.net	Internet Suppot for the our Web site AMY SCHULTZ;	-19.95	-6,280.78
Credit Card C...	03/09/2021	Evoqua Water Technologies, LLC	DI Water Tank Exchnage SAHAR GOLSHANI;	-404.10	-6,684.88
Credit Card C...	03/09/2021	Labelmaster	Misc. Labels JOSHUA J BINDER;	-48.52	-6,733.40
Credit Card C...	03/09/2021	Zoom	Virtual Service AMY SCHULTZ;	-14.99	-6,748.39
Credit Card C...	03/09/2021	SiteOne Landscape Supply	Tarp MANUEL CARDENAS;	-12.32	-6,760.71
Credit Card C...	03/10/2021	Environmental Resource Associates	Residual Chlorine SAHAR GOLSHANI;	-276.60	-7,037.31
Credit Card C...	03/10/2021	Grainger	Gloves 58SAHAR GOLSHANI;	-201.98	-7,239.29
Credit Card C...	03/11/2021	Labelmaster	Misc. Labels JOSHUA J BINDER;	-73.36	-7,312.65
Credit Card C...	03/11/2021	Fisher Scientific Company LLC	Lab Supplies SAHAR GOLSHANI;	-222.58	-7,535.23
Credit Card C...	03/11/2021	Hardy Diagnostics	100ml btl w/septum SAHAR GOLSHANI;	-202.56	-7,737.79
Credit Card C...	03/11/2021	Fastrak	Bridge tolls AMY SCHULTZ;	-25.00	-7,762.79
Credit Card C...	03/11/2021	Zoom	Monthly Zoom subscription DALE MCDONALD;	-14.99	-7,777.78
Credit Card C...	03/12/2021	Fisher Scientific Company LLC	Lab Chemicals SAHAR GOLSHANI;	-671.65	-8,449.43
Credit Card C...	03/12/2021	Gibson Bioscience	Coilert QC Set SAHAR GOLSHANI;	-304.45	-8,753.88
Credit Card C...	03/12/2021	Labelmaster	Misc. Lables JOSHUA J BINDER;	-98.38	-8,852.26
Credit Card C...	03/15/2021	Hach Company	Lab Supplies & Chemcials SAHAR GOLSHANI;	-1,736.27	-10,588.53
Credit Card C...	03/15/2021	Tiger Supplies	Laser with Receiver and Cell Battery GREG PEASE;	-1,504.45	-12,092.98
Credit Card C...	03/17/2021	CWEA-SFBS	Employment Posting AMY SCHULTZ;	-290.00	-12,382.98
Credit Card C...	03/17/2021	Fisher Scientific Company LLC	Lauryl Tryptose Broth SAHAR GOLSHANI;	-276.25	-12,659.23
Credit Card C...	03/17/2021	Brown & Caldwell BC Waterjobs	Employment Posting AMY SCHULTZ;	-200.00	-12,859.23
Credit Card C...	03/17/2021	American Messaging Services, LLC	Pager Service AMY SCHULTZ;	-121.44	-12,980.67
Credit Card C...	03/17/2021	Walgreens	SD Card for Microscope SAHAR GOLSHANI;	-87.18	-13,067.85
Credit Card C...	03/18/2021	Miscellaneous	Employment Posting AMY SCHULTZ;	-185.00	-13,252.85
Credit Card C...	03/18/2021	Hach Company	Lab Supplies SAHAR GOLSHANI;	-138.90	-13,391.75
Credit Card C...	03/18/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-15.23	-13,406.98
Credit Card C...	03/19/2021	Express Systems	Plant Genset Modbus RTU ROBERT M LIEBMANN;	-703.05	-14,110.03
Credit Card C...	03/19/2021	McMaster-Carr	Aeration Basin Hose Installations ROBERT M LIEBMANN;	-294.17	-14,404.20
Credit Card C...	03/19/2021	Craig's List	Employment Posting AMY SCHULTZ;	-150.00	-14,554.20
Credit Card C...	03/19/2021	Hach Company	Lab Supplies SAHAR GOLSHANI;	-35.08	-14,589.28
Credit Card C...	03/19/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-12.24	-14,601.52
Credit Card C...	03/22/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-131.89	-14,733.41
Credit Card C...	03/22/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-73.05	-14,806.46
Credit Card C...	03/22/2021	Novato Builders Supply Inc.	Misc. Supplies MANUEL CARDENAS;	-57.85	-14,864.31
Credit Card C...	03/22/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-14.16	-14,878.47
Credit Card C...	03/24/2021	Novato Builders Supply Inc.	Ready Mix Concrete GREG PEASE;	-1,200.32	-16,078.79
Credit Card C...	03/24/2021	Dell Marketing LP	Monitor for SCADA Workstation ROBERT M LIEBMANN;	-226.90	-16,305.69
Credit Card C...	03/24/2021	Hach Company	Lab Supplies SAHAR GOLSHANI;	-150.43	-16,456.12
Credit Card C...	03/24/2021	SC Barnes Buildings & Fence	Tube, Steel Cap MANUEL CARDENAS;	-48.04	-16,504.16
Credit Card C...	03/25/2021	Dell Marketing LP	SCADA Workstation for Electric Building ROBERT M LIEB...	-894.91	-17,399.07
Credit Card C...	03/25/2021	FLeetio	Fuel intake program GREG PEASE;	-163.12	-17,562.19
Credit Card C...	03/25/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-152.58	-17,714.77
Credit Card C...	03/26/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-297.95	-18,012.72
Credit Card C...	03/26/2021	Fisher Scientific Company LLC	Collform TST SAHAR GOLSHANI;	-212.40	-18,225.12
Credit Card C...	03/26/2021	Fisher Scientific Company LLC	Collform TST Vial SAHAR GOLSHANI;	-106.20	-18,331.32
Credit Card C...	03/26/2021	Hach Company	Lab Supplies SAHAR GOLSHANI;	-52.31	-18,383.63
Credit Card C...	03/26/2021	Fastrak	Bridge Tolls AMY SCHULTZ;	-25.00	-18,408.63
Credit Card C...	03/29/2021	Freeway Toyota	Service on Rav4 MIKE D PRINZ;	-395.85	-18,804.48
Credit Card C...	03/29/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-207.15	-19,011.63
Credit Card C...	03/29/2021	Home Depot	Toilet Supplies ANTHONY J ASARO JR;	-184.33	-19,195.96
Credit Card C...	03/29/2021	Comcast	Internet - 300 SRR AMY SCHULTZ;	-144.87	-19,340.83
Credit Card C...	03/29/2021	Woodland Center Auto Supply, Inc.	Truck washing supplies GREG PEASE;	-53.86	-19,394.69
Credit Card C...	03/29/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-41.56	-19,436.25
Credit Card C...	03/30/2021	Friedman's Home Improvement	Tension Bar MANUEL CARDENAS;	-55.80	-19,492.05
Credit Card C...	04/01/2021	Amazon.com	Whiteboard for Process Performance Tracking ROBERT ...	-217.99	-19,710.04
Credit Card C...	04/01/2021	SC Barnes Buildings & Fence	Fencing Supplies ANTHONY J ASARO JR;	-22.75	-19,732.79
Credit Card C...	04/01/2021	Friedman's Home Improvement	Chain Link Brace Band MANUEL CARDENAS;	-14.87	-19,747.66
Credit Card C...	04/02/2021	Hach Company	Nitrate SAHAR GOLSHANI;	-229.57	-19,977.23
Credit Card C...	04/02/2021	Amazon.com	Miscellaneous Office Supplies AMY SCHULTZ;	-207.89	-20,185.12
Credit Card C...	04/02/2021	Alr Technology	Safety Valves ANTHONY J ASARO JR;	-136.80	-20,321.92
Credit Card C...	04/02/2021	Hach Company	Effluent Inorg/Mix 8SAHAR GOLSHANI;	-110.09	-20,432.01
Credit Card C...	04/02/2021	CSMFO	Subscription to CA Finanical Officers DALE MCDONALD;	-110.00	-20,542.01

Las Gallinas Valley Sanitary District Reconciliation Detail

6204 · Credit Card at Elan Financial, Period Ending 04/05/2021

Type	Date	Name	Memo	Amount	Balance
Credit Card C...	04/02/2021	Treasury Software	ACH Software AMY SCHULTZ;	-39.95	-20,581.96
Credit Card C...	04/02/2021	Jackson's Hardware, Inc.	Hex Nuts & Fastner MANUEL CARDENAS;	-16.39	-20,598.35
Credit Card C...	04/05/2021	Magnolia Audio	SCADA Overview Monitor ROBERT M LIEBMANN;	-1,557.52	-22,155.87
Credit Card C...	04/05/2021	The Lock People	Pad locks GREG PEASE;	-827.15	-22,983.02
Credit Card C...	04/05/2021	Fisher Scientific Company LLC	Biological Indicator Box Pk-5 SAHAR GOLSHANI;	-535.80	-23,518.82
Credit Card C...	04/05/2021	Quincy Compressors	Membrane Filter Blower Parts ROBERT M LIEBMANN;	-299.08	-23,817.90
Credit Card C...	04/05/2021	Alhambra	Bottled Water Delivery AMY SCHULTZ;	-169.45	-23,987.35
Credit Card C...	04/05/2021	Alhambra	Water Service ROBERT M LIEBMANN;	-169.32	-24,156.67
Credit Card C...	04/05/2021	Zoom	Monthly Zoom Subscription YI YING HUANG;	-149.90	-24,306.57
Credit Card C...	04/05/2021	Hach Company	Nitrate SAHAR GOLSHANI;	-84.07	-24,400.64
Credit Card C...	04/05/2021	Access/Central Marin Answering S...	Answering Service AMY SCHULTZ;	-75.00	-24,475.64
Total Charges and Cash Advances				-24,475.64	-24,475.64
Payments and Credits - 2 items					
Bill	03/01/2021	Bank of Marin Cardmember Services	Memo:WEB AUTOMTC; 00000;	16,258.84	16,258.84
Credit Card Cr...	04/05/2021	Novato Builders Supply Inc.	Merchandise Return GREG PEASE;	100.00	16,358.84
Total Cleared Transactions				-8,116.80	-8,116.80
				8,116.80	24,375.64

AGENDA ITEM 2C
DATE May 6, 2021



BOARD MEMBER MEETING ATTENDANCE REQUEST

Date: 4/28/2021 Name: Judy Schriebman

I would like to attend the Marin LAFCO Meeting of
Shared Services

To be held on the 29 day of Apr from 9 a.m. / p.m. to noon

Location of meeting: online

Actual meeting date(s): April 29, 2021

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

Purpose of Meeting: discussion on sharing services among Marin agencies

Other meeting attendees: Craig Murray

Meeting relevance to District: Shared personnel may decrease district costs

Frequency of Meeting: One time

Estimated Costs of Travel (if applicable): _____

Date submitted to Board Secretary: 4/28/2021

Board approval obtained on Date: _____

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



Agenda Summary Report

To: Mike Prinz, General Manager *MP*
From: Michael P. Cortez, PE, District Engineer *mpc*
 (415) 526-1518; mcortez@lgvsd.org
Meeting Date: May 6, 2021
Re: Proposed Ordinance 186 – Title 2, Chapter 10, Sanitary Code of the Las Gallinas Valley Sanitary District
Item Type: Consent _____ Action X Information _____ Other _____
Standard Contract: Yes _____ No _____ (See attached) Not Applicable X

STAFF RECOMMENDATION

- 1) Board to open a public hearing regarding the proposed adoption of Ordinance 186.
- 2) Board to adopt Ordinance No. 186, An Ordinance to Add Chapter 10, Accessory Dwelling Units and Junior Accessory Dwelling Units, to Title 2, District Regulations, of the Ordinance Code of the Las Gallinas Valley Sanitary District.
- 3) Board to approve Resolution 2021-2212, A Resolution Adopting Ordinance No. 186.

BACKGROUND

The proposed Ordinance No. 186 addresses Accessory Dwelling Units (ADUs) and Junior Accessory Dwelling Units (JADUs) as it relates to provisions of Senate Bill 13 passed by the California State Legislature and approved by the Governor on October 9, 2019. Drafts of Ordinance No. 186 were presented to the Board on February 4, 2021 and April 1, 2021. After the first review, the District Counsel was directed to revise the draft Ordinance in order to follow the square footage thresholds established by the City of San Rafael and County of Marin. The Board had no comments on the second draft.

Attached is a memorandum from legal counsel including proposed Ordinance No. 186, which adds Chapter 10, Accessory Dwelling Units and Junior Accessory Dwelling Units to Title 2 of the Ordinance Code.

The first draft of the Ordinance has been reviewed by the State Department of Housing and Community Development (DHCD) with minor comments incorporated. As a standard protocol, the latest version of the Ordinance has been provided to the DHCD for final review.

PREVIOUS BOARD ACTION

- 1) On February 4, 2021, the Board discussed setting a Public Hearing Date for Ordinance No. 186 and agreed to table this item and bring it back to a future Board meeting after revisions by District Counsel.
- 2) On April 1, 2021, the Board set a Public Hearing Date for Ordinance No. 186 for May 6, 2021 or a subsequent date.



ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

N/A

MEMORANDUM

TO: Board of Directors, LGVSD

FROM: Patrick M.K. Richardson, Esq., District Counsel

DATE: April 1, 2021

SUBJECT: RE: Ordinance to Regulate Accessory Dwelling Units (“ADUs”) and Junior Accessory Dwelling Units (“JADUs”) pursuant to Gov. Code §§ 65852.150 et seq.

BACKGROUND:

This memorandum is a follow-up to previous memoranda and discussions with the Board regarding the fees that the District can charge for a new ADU/JADU. This new ordinance will result in the addition of CHAPTER 10, ACCESSORY DWELLING UNITS AND JUNIOR ACCESSORY DWELLING UNITS, to TITLE 2, DISTRICT REGULATIONS in keeping with Gov. Code §§ 65852.2 and 65852.22, which restricts the charging of “impact fees,” “connection fees,” or a “capacity charges” for ADUs or JADUs. The statutory structure requires that local agencies adopt an ordinance in keeping with the statutory requirements of these statutes regulating the permitting and approval of ADUs/JADUs. The primary reason for the proposed Ordinance is to meet this requirement.

The Legislature has determined that Accessory dwelling units (“ADU”) are a valuable form of housing in California for several reason as noted Gov. Code § 65852.150.¹ The statutory structure encompassing the creation of ADUs and Junior Accessory dwelling units (“JADU”) is focused on reducing the permitting processes and fees which may serve to “...restrict the ability of homeowners to create accessory dwelling units...” Therefore, most of the statutory structure more directly affects those permitting agencies such as the City of San Rafael (“City”) and the County of Marin (“County”). However, the statutes also restrict the District’s ability to charge certain fees for providing sewer services to property owners that seek to create such ADUs or JADUs.

¹ Gov. Code § 65852.150 details the underlying policy reasons for favoring the creation of ADUs, as follows:

- “(2) Accessory dwelling units provide housing for family members, students, the elderly, in-home health care providers, the disabled, and others, at below market prices within existing neighborhoods.
- (3) Homeowners who create accessory dwelling units benefit from added income, and an increased sense of security.
- (4) Allowing accessory dwelling units in single-family or multifamily residential zones provides additional rental housing stock in California.
- (5) California faces a severe housing crisis.
- (6) The state is falling far short of meeting current and future housing demand with serious consequences for the state's economy, our ability to build green infill consistent with state greenhouse gas reduction goals, and the well-being of our citizens, particularly lower and middle-income earners.
- (7) Accessory dwelling units offer lower cost housing to meet the needs of existing and future residents within existing neighborhoods, while respecting architectural character.
- (8) Accessory dwelling units are, therefore, an essential component of California's housing supply.

As the primary permitting agencies, the City's or the County's determination of a valid ADU or JADU rather than trying to devise its own definitions given that they have the primary responsibility for permitting/approving an ADU/JADU. Thereafter, the District can then proceed to determination whether fees may be charged to the property owner.

PROPOSED ORDINANCE:

For the purposes of brevity in this memo, previous discussions regarding the statutory definitions of ADU and JADU and prohibited "impact fees," "connection fees," or "capacity charges" are omitted.

Revised Ordinance: Following review by the Board, staff were directed to revise the proposed ordinance to follow the sq. footage thresholds established by the City of San Rafael the County.

The City restricts the sq. footage of **ADUs to 1000 sq. ft. or 50% of the floor area of an existing primary dwelling unit, whichever is less**, and a JADUs to 500 sq. ft. However, the County restricts the maximum floor areas of an **ADU to 1,200 sq. ft.** and JADUs to 500 sq. ft.

Therefore, if the District were to mirror the City's and County's sq. footage allowances, there would be a different imposition of fees by the District depending whether the applicant was within the City or the County jurisdiction. Because this difference is based solely on the geographic location of a property owner it is likely that such a tiered structure would not pass legal challenge as the fees would not be proportional to the cost of the service attributable to the parcel.².

Therefore, it is recommended that the Board adopt the County's sq. footage determination when fees would be charged, i.e., 1,200 sq. ft.

Following adoption of Ordinance No. 186 by the Board, a copy of the Ordinance shall be submitted to Department of Housing and Community Development for review by the Department to further review to determine whether the Ordinance complies with the requirements of Gov. Code §§ 65852.2.

RECOMMENDATION:

Thus, District Counsel recommends that the Board adopt Ordinance No. 186.

² "The amount of a fee or charge imposed upon any parcel or person as an incident of property ownership shall not exceed the proportional cost of the service attributable to the parcel."
Cal. Const. art. 13D, § 6 (a) (3)

**BOARD OF DIRECTORS OF THE
LAS GALLINAS VALLEY SANITARY DISTRICT**

ORDINANCE NO. 186

**AN ORDINANCE ADDING CHAPTER 10, ACCESSORY DWELLING UNITS
AND JUNIOR ACCESSORY DWELLING UNITS, TO TITLE 2, DISTRICT
REGULATIONS, OF THE ORDINANCE CODE OF THE LAS GALLINAS
VALLEY SANITARY DISTRICT**

**A CHAPTER REGULATING “ACCESSORY DWELLING UNITS”
AND “JUNIOR ACCESSORY DWELLING UNITS.”**

The Board of Directors of the Las Gallinas Valley Sanitary District, Marin County, California, does ordain as follows:

ARTICLE I.

Chapter 10, “ACCESSORY DWELLING UNITS AND JUNIOR ACCESSORY DWELLING UNITS” is hereby added to Title 2, District Regulations, of The Ordinance Code of the Las Gallinas Valley Sanitary District, to read as follows:

“ARTICLE I. PURPOSE. A Chapter regulating “ACCESSORY DWELLING UNITS” and “JUNIOR ACCESSORY DWELLING UNITS” pursuant to Cal. Gov. Code §§ 65852.150; 65852.2; and 65852.22, and in furtherance of the public policy and intent of the Legislature favoring the creation of additional housing in California, especially for family members, students, the elderly, in-home health care providers, the disabled, and others, at below market prices within existing neighborhoods.

ARTICLE II. DEFINITIONS.

Section 201. ACCESSORY DWELLING UNIT (“ADU”), as defined by Gov. Code § 65852.2(j)(1), means an attached or a detached residential dwelling unit that provides complete independent living facilities for one or more persons and is located on a lot with a proposed or existing primary residence. It shall include permanent provisions for living, sleeping, eating, cooking, and sanitation on the same parcel as the single-family or multifamily dwelling is or will be situated. An accessory dwelling unit also includes the following: (A) An efficiency unit, as defined in Section 17958.1 of the Health and Safety Code,

which is a unit for occupancy by no more than two persons which has a minimum floor area of 150 square feet and which may also have partial kitchen or bathroom facilities; or (B) A manufactured home, as defined in Section 18007 of the Health and Safety Code.

Section 203. CAPITAL FACILITIES CHARGE or SEWER CONNECTION FEE are synonymous for District purposes and shall have the same meaning as defined in Section 206, ARTICLE II, DEFINITIONS, of Title 1, Chapter 1, the Ordinance Code of the Las Gallinas Valley Sanitary District.

Section 204. IMPACT FEE, as defined by Gov. Code § 66000, means a monetary exaction other than a tax or special assessment, whether established for a broad class of projects by legislation of general applicability or imposed on a specific project on an ad hoc basis, that is charged by a local agency to the applicant in connection with approval of a development project for the purpose of defraying all or a portion of the cost of public facilities related to the development project, but does not include fees specified in Section 66477, fees for processing applications for governmental regulatory actions or approvals, fees collected under development agreements adopted pursuant to Article 2.5 (commencing with Section 65864) of Chapter 4, or fees collected pursuant to agreements with redevelopment agencies that provide for the redevelopment of property in furtherance or for the benefit of a redevelopment project for which a redevelopment plan has been adopted pursuant to the Community Redevelopment Law (Part 1 (commencing with Section 33000) of Division 24 of the Health and Safety Code).

Section 205. JUNIOR ACCESSORY DWELLING UNIT (“JADU”), as defined by Gov. Code § 65852.22, means a unit that is no more than 500 square feet in size and contained entirely within a single-family residence. A junior accessory dwelling unit may include separate sanitation facilities, or may share sanitation facilities with the existing structure.

ARTICLE III. GENERAL PROVISIONS

Section 301. The District shall not impose an IMPACT FEE, CAPITAL FACILITIES CHARGE or SEWER CONNECTION FEE on an ADU that is less

than 1,200 sq. ft. Any IMPACT FEE, CAPITAL FACILITIES CHARGE or SEWER CONNECTION FEE charged for an ADU of 1,200 sq. ft. or more shall be charged proportionately in relation to the square footage of the primary dwelling unit.

Section 302. For an ADU or JADU the District shall not require the installation of a new or separate sewer connection directly between the ADU and the District sewer main or impose an IMPACT FEE, CAPITAL FACILITIES CHARGE, SEWER CONNECTION FEE or a capacity charge, unless the ADU or JADU was constructed with a new single-family home, if the following apply:

(a) Where the ADU or JADU meets the Design Characteristics, Parking criteria, Setbacks, applicable Building and Septic Code requirements, Density, and other requirements imposed by the City or County, whichever governmental entity has the jurisdiction and authority to approve and permit the construction of an ADU or JADU; and

(b) Where the total floor area of the ADU is not more than 1,200 sq. ft.; or

(c) Where the total floor area of the JADU is not more than 500 sq. ft. and contained entirely within the single-family structure. A single family structure also includes an attached garage.

Section 303. For an ADU not described in Section 302, above, the District may require a new or separate sewer connection directly between the ADU and the District's sewer main.

Section 304. For purposes of providing sewer service, including the imposition of a SEWER CONNECTION FEE, a JADU shall not be considered a separate or new dwelling unit.

ARTICLE 2. ADOPTION AND NOTIFICATION

This Ordinance shall take effect and be in force either seven (7) days from the date of its passage and publication or as of May 18, 2021, whichever is later. The Ordinance or a summary of it shall be published once, with the names of the members of the Board of Directors of the Las Gallinas Valley Sanitary District of Marin County, California, voting

for and against the same in the Marin Independent Journal, a newspaper of general circulation published in the County of Marin. A certified copy of the full text of the proposed regulation or ordinance or proposed amendment to same shall be posted in the office of the clerk of the board, along with the names of those board members voting for and against the ordinance.

Furthermore, within sixty (60) days following adoption of this Ordinance by the Board, a copy of the Ordinance shall be submitted to Department of Housing and Community Development for review by the Department to determine whether the Ordinance complies with the requirements of Gov. Code §§ 65852.2.

I hereby certify that the foregoing is a full, true and correct copy of the Ordinance duly and regularly passed and adopted by the Board of Directors of the Las Gallinas Valley Sanitary District of Marin County, California, at a meeting hereof held on May 6, 2021 by the following vote of members thereof:

AYES:
NOES:
ABSENT:
ABSTAIN:

Teresa Lerch, District Secretary
Las Gallinas Valley Sanitary District

APPROVED:

Crystal J. Yezman, Board President

(seal)

RESOLUTION No. 2021-2212

A RESOLUTION ADOPTING ORDINANCE NO. 186

AN ORDINANCE OF ADDING CHAPTER 10, ACCESSORY DWELLING UNITS AND JUNIOR ACCESSORY DWELLING UNITS, TO TITLE 2, DISTRICT REGULATIONS, OF THE ORDINANCE CODE OF THE LAS GALLINAS VALLEY SANITARY DISTRICT

A CHAPTER REGULATING “ACCESSORY DWELLING UNITS” AND “JUNIOR ACCESSORY DWELLING UNITS.”

LAS GALLINAS VALLEY SANITARY DISTRICT

RESOLVED, by the Sanitary Board of the Las Gallinas Valley Sanitary District, Marin County, California, as follows:

WHEREAS, The Las Gallinas Valley Sanitary District ("District") is authorized by the Sanitary District Act of 1923 (Health & Safety Code §6400 et seq.) to provide public services and facilities related to the acquisition, construction, replacement, improvement, maintenance and operation of wastewater collection facilities within the District's service area; and

WHEREAS, the District is empowered to prescribe, revise and collect fees, rates and charges related to said wastewater collection facilities pursuant to Health and Safety Code §6520.5, including Sewer Connection Fees; and

WHEREAS, the District imposes Sewer Connection Fees in accordance with Government Code §66013; and

WHEREAS, the California Legislature has established, as a public policy, that there exists the necessity to promote the creation of ACCESSORY DWELLING UNITS (“ADUs”) and JUNIOR ACCESSORY DWELLING UNITS (“JADUs”) and reduce the amount of restrictions imposed by local governmental agencies on the ability of homeowners to create such units and implement the statutory requirements of Gov. Code §§ 65852.150 et seq., and

WHEREAS, the City of San Rafael and the County of Marin are the respective primary governmental entities empowered with the authority for the approval and

permitting of ADUs and JADUs in separate and distinct geographic areas within the District's jurisdiction, accordingly.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Las Gallinas Valley Sanitary District as follows:

1. The Board of Directors of the Las Gallinas Valley Sanitary District hereby adopts Ordinance No. 186, adding Chapter 10, Accessory Dwelling Units and Junior Accessory Dwelling Units, to Title 2, District Regulations, of the Ordinance Code of the Las Gallinas Valley Sanitary District, a copy of which is attached hereto as Exhibit "A."
2. Furthermore, pursuant to Gov. Code § 65852.2(h), within sixty (60) days of the adoption of this Ordinance No. 186, a copy of said Ordinance shall be submitted to the Department of Housing and Community Development for review and determination of whether said Ordinance complies with the provisions of Gov. Code § 65852.2.

* * * * *

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 May 6, 2021, by the following vote of the members thereof:

AYES, and in the favor thereof, Members:

NOES, Members:

ABSENT, Members:

ABSTAIN, Members:

Teresa L. Lerch, District Secretary,
Las Gallinas Valley Sanitary District

APPROVED:

Crystal J. Yezman, Board President

(seal)

5/6/2021

General Manager Report

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



Item Number 4.2

Agenda Summary Report

To: Mike Prinz, General Manager *MISP*
 From: Mel Liebmann, Plant Manager mliebmann@lqvsd.org 415-526-1526
 Mtg. Date: May 6, 2021
 Re: SCADA Support Services FY 21-22
 Item Type: Consent Action Information Other
 Standard Contract: Yes X No (See attached) Not Applicable

STAFF RECOMMENDATION

None. Informational Only.

BACKGROUND

The District utilizes a Supervisory and Control Data Acquisition (SCADA) System to perform the functions necessary to provide continuous operation of the wastewater treatment plant, recycled water facility and sewage pump stations. Staff's ability to monitor, control, make operational decisions and present performance data regarding the system is reliant on a network of integrated equipment that requires maintenance and occasional modification when necessary.

ArcSine Engineering has provided these services to the District for the last year. They have worked with staff to remedy many shortcomings of the existing control system. ArcSine staff continue to develop documentation in the programmed environment that makes troubleshooting easier. Other important improvements include implementing inclusion of collections crew into alarm delivery system, treatment plant process control and supervisory modifications, and configuration changes to improve pump station radio telemetry.

ArcSine has worked with staff to develop a scope of work and fee estimate to provide ongoing support of the District's SCADA system for FY 21-22. ArcSine's proposal is included with this summary report. ArcSine Engineering's billing is based on time and material expended.

Staff believes that continuing to utilize ArcSine Engineering for SCADA Support Services is the most advantageous way to maintain effective and reliable monitoring and control systems utilized in District operations and treatment processes. ArcSine Engineering has been contracted to perform programming for the District's Secondary Treatment Plant Upgrade and Recycled Water Expansion project. Their staff are intimately familiar with the District's SCADA network, a critical and complex District asset. The selection of ArcSine Engineering was based on a well-established reputation for delivering excellent service to several regional utilities.

ArcSine Engineering has worked with staff over the last two years to develop and implement a plan to apply industry best practices that will assure a uniform well documented environment for both the programmer and end user. This foundational work expedites troubleshooting, ensures



consistency, reduces errors and allows for rapid transition to other service providers, if desired, in the future. Staff recommends continuing to use ArcSine Engineering as the District's SCADA Support Services provider. A sole source justification for ArcSine's fulfillment of the needed services has been reviewed and approved by the Administrative Services Manager and the General Manager. This contract falls under the signature authority of the General Manager.

PREVIOUS BOARD ACTION

None

ENVIRONMENTAL REVIEW:

NA

FISCAL IMPACT:

\$24,501



SCOPE OF WORK

SCADA ON-CALL SUPPORT LAS GALLINAS VALLEY SANITARY DISTRICT

ArcSine Project No. 1663.09

April 8, 2021

INTRODUCTION

This Scope of Work covers professional services to be provided by ArcSine Engineering (Consultant) for ongoing support of Plant control systems.

This scope is of similar character, and a follow-on to prior support scopes for the District. The work under this Scope will be performed on an as-needed basis, as requested by the District. The scope is minimal in nature, and is not intended to provide a level of effort to make improvements. Instead its goal is to provide resources to support existing systems and functionality, as issues arise.

Task 1 –Recordkeeping

The District has in place electronic files and related documentation, all of which is in a state of evolution and ongoing improvement, Examples include Control Strategies which describe how things work.

This Task consists of recordkeeping associated with support work items, such as receiving District requests and writing/editing Control Strategies, editing documents and files to reflect work performed.

This Task does not provide for expansion of documentation.

Task 2 - On Call Support, On Site And Off Site

This Task is comprised of remote on-call support, and emergency on-site support of the Plant control system.

- 2.1 Provide remote on-call SCADA support to Plant staff. Provide telephone support and remote troubleshooting support through VPN access. For estimating purposes, allow for the following:
 - A. Ten (10) programmer telephone consultations at 4 hours each with 15-hours engineering oversight (55 hours total), with no formal documentation or follow-up.
 - B. Five (5) programmer involved consultations at 8 hours each with 10-hours engineering oversight (50 hours total), with the time covering correspondence, teleconferences, work, testing, and recordkeeping.
- 2.2 Provide on-site response to SCADA urgent events. Allow for three on-site visits, allow for 12 hours each event, total, plus reasonable expenses and technical oversight.

Agenda Summary Report

To: Mike Prinz, General Manager *MP*
From: Dale McDonald, Administrative Services Manager *M*
(415) 526-1519 dmcDonald@lgvsd.org
Meeting Date: May 6, 2021
Re: Quarterly Financial Reports & Treasurer's Reports as of March 31, 2021
Item Type: Consent Action Information Other
Standard Contract: Yes No (See attached) Not Applicable

STAFF RECOMMENDATION

Information only

BACKGROUND

Treasurer's Report:

Pursuant to the State of California Government Code Section 56300, and the District's investment policy adopted on February 23, 2017, and industry best practices, staff prepares a quarterly report on the District's cash position, investments, and liquidity.

As specified in California Government Code Section 53646(e), if all funds are placed in Local Agency Investment Fund (LAIF), 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 attached Treasurer's Report presents the District's bank and investment account balances as of March 31, 2021. Total Cash and Investments of \$41.2 million, including California Infrastructure and Economic Development Bank (IBank) State Revolving Fund (SRF), reflect a decrease of \$20.5 million during the previous twelve-month period. This decrease is the result of major capital project expenditures from funds that were accumulated specifically for those capital projects. Included with the Treasurer's Report are the LAIF remittance advices from the State Controller which includes report on earnings ratio, interest rate, and current market value as of March 31, 2021.

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:

Quarterly reviews can include comparisons of financial plans and budgets, current forecasts, and actual results. Highlights and summaries of financial activities can be provided.

The 2017 Revenue Bonds issued to fund the Secondary Treatment Plant Upgrade Recycled Water Expansion (STPURWE) project has been exhausted with a balance of \$112 remaining in the US Bank Bond Fund and US Bank Cost of Issuance Fund as of March 31. The LAIF Bond Fund account 11-21-012 was closed.



Two disbursement requests from the California Infrastructure and Economic Development Bank (IBank) in the amount of \$2,149,465.09 was made this quarter. The remaining balance for use towards the STPURWE project as of March 31, 2021 is therefore \$8,707,248.89. IBank disbursements will occur as payment requests from Meyers & Sons Construction are received.

Capital Project Reserve Fund Money Market increase of \$723,082 over last year is attributable to Marin Municipal Water District buy-in and debt service payment transfers into the funds. The fund is reserved for the STPURWE project and is expected to be drawn down in fiscal year 2021-22.

A combined department roll-up operational review was undertaken and Profit & Loss Budget vs. Actual report summary for the period July through March 2021 is being provided. The column "*Annual Budget*" is what was adopted for the 12-month fiscal year. The summary report serves as a useful tool to management and the Board in being able to quickly draw attention to certain areas that may need focused attention. New this quarter is the reporting of debt service principal and interest payments in our accounting system, under accounts 98xx.

The remaining Sewer Use Charge, assessments, and Property Tax revenue due from the County is deposited mid-April and will show up on next quarters financial report. Revenue projections will be updated and presented with the proposed fiscal year 2021-22 budget on May 20, 2021.

The LAIF interest rate has decreased from 0.63% as of December 31, 2020 to 0.44% as of March 31, 2020.

PREVIOUS BOARD ACTION

N/A

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

None

**Las Gallinas Valley Sanitary District
Treasurer's Report - Operating and Investment Accounts
March 31, 2021**

I. Account Summary: Bank and Investment Accounts Accounts Summary	March		Change from Previous Year
	2021	2020	
Summary of Bank and Investment Accounts			
OPERATIONS:			
Bank of Marin			
Operating Accounts	1,925,027	832,400	1,092,627
Liquid Savings	225,320	200,034	25,286
Private Sewer Lateral Rehab	183,529	170,382	13,147
Surcharge-Marín Lagoon	84,553	84,442	111
Surcharge-Captains Cove	17,258	17,235	23
Connection Fee	130,830	68,911	61,919
Capital Project Reserve Fund Money Market 3983	3,333,003	2,609,921	723,082
Petty cash	707	1,376	(669)
Investment Accounts			
Debt Service Reserve-Recycled Water	598,205	595,105	3,099
Debt Service Reserve-SRF Loan	299,719	298,166	1,553
 Local Agency Investment Fund	 <u>25,671,549</u>	 <u>23,521,886</u>	 <u>2,149,663</u>
Cash and Investments	<u>\$ 32,469,699</u>	<u>\$ 28,399,857</u>	<u>\$ 4,069,842</u>
 IBANK SRF AGREEMENT:	 8,707,249	 12,000,000	 (3,292,751)
BOND INVESTMENTS:			
Local Agency Investment Fund	\$ 112	\$ 21,308,107	\$ (21,307,995)
TOTAL CASH AND INVESTMENTS	<u>\$ 41,177,060</u>	<u>\$ 61,707,965</u>	<u>\$ (20,530,905)</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 February 23, 2017 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: 
Mike Prinz, General Manager

Las Gallinas Valley Sanitary District Profit & Loss Budget vs. Actual July 2020 through March 2021

Ordinary Income/Expense	Jul '20 - Mar 21	Annual Budget	% of Budget
Income			
9011 · Sewer Use Charge	8,937,156.46	15,289,361.00	58.45%
9880 · Recycled Water	84,078.46	42,000.00	200.19%
9022 · Permits and Inspection Fees	54,115.00	2,000.00	2,705.75%
9024 · Application Fees	3,300.00	20,413.00	16.17%
9101 · PSL Repairs Reimbursements	16,059.87	66,500.00	24.15%
9773 · Miscellaneous Income	0.00	750.00	0.0%
9000 · Property Tax Revenue	642,587.42	962,419.00	66.77%
9040 · Supp. Assmnts - Property Tax	11,948.41	16,000.00	74.68%
9046 · ERAF	252,663.04	325,000.00	77.74%
9280 · HOPTR	2,141.96	4,300.00	49.81%
9021 · Franchise Revenue	129,872.91	137,081.00	94.74%
9010 · Federal and State Grants	446,228.70	847,150.00	52.67%
9033 · Insurance Dividends	23,261.00	0.00	100.0%
9023 · Connection Fees CapX	31,262.75	7,720.00	404.96%
9034 · Connection Fee refund CapX	-3,794.30	0.00	100.0%
9881 · MMWD Reimbursement CapX	411,757.74	463,395.00	88.86%
9100 · Reimbursements	15,918.21	1,500.00	1,061.21%
9200 · Interest Income	421,125.64	800,900.00	52.58%
Total Income	11,479,683.27	18,986,489.00	60.46%
Gross Profit	11,479,683.27	18,986,489.00	60.46%
Expense			
9700 · Passthru Expenditure	1,278.00		
1001 · Employee Costs	3,452,403.18	5,548,993.00	62.22%
2059 · Insurance	260,611.50	175,076.00	148.86%
2080 · Repairs and Maintenance	438,828.59	671,594.00	65.34%
2331 · Reclamation Expenses	247,564.00	270,834.00	91.41%
2101 · Chemicals and Lab Supplies	141,974.60	187,000.00	75.92%
2111 · Pollution Prevention	14,494.01	12,500.00	115.95%
2117 · Lab Contract Services	37,093.60	43,000.00	86.26%
2249 · Small Tools	7,733.59	25,000.00	30.93%
2320 · Outside Services	323,004.33	403,502.00	80.05%
2330 · Damage Claims	10,000.00	10,000.00	100.0%
2356 · Engineering	142,256.33	210,300.00	67.64%
2362 · General Operating Supplies	54,102.17	40,250.00	134.42%
2530 · Utilities	277,073.68	287,812.00	96.27%
2501 · Fuels	29,009.93	33,803.00	85.82%
2389 · Misc Safety Exp - Lgvsd only	17,928.94	38,450.00	46.63%
2397 · Safety Contractor Services	26,006.50	60,000.00	43.34%
2801 · Lateral Rehab Assistance Prog	45,956.00	100,000.00	45.96%
2400 · General and Administrative	573,197.97	709,903.00	80.74%
9800 · Debt Service			
9810 · Principal Payments	2,196,153.35	2,728,851.00	80.48%

Las Gallinas Valley Sanitary District Profit & Loss Budget vs. Actual July 2020 through March 2021

	<u>Jul '20 - Mar 21</u>	<u>Annual Budget</u>	<u>% of Budget</u>
9820 · Interest Payments	1,813,968.74	2,074,724.00	87.43%
9830 · Loan Annual Fees - IBank	35,012.60		
Total 9800 · Debt Service	4,045,134.69	4,803,575.00	84.21%
9920 · Reserve Uses	0.00	1,326,507.00	0.0%
Total Expense	10,145,651.61	14,958,099.00	67.83%
Net Ordinary Income	1,334,031.66	4,028,390.00	33.12%
Other Income/Expense	-13,985,838.28	-14,911,622.00	93.79%
Net Income	<u>-12,651,806.62</u>	<u>-10,883,232.00</u>	<u>116.25%</u>



BETTY T. YEE

California State Controller

LOCAL AGENCY INVESTMENT FUND
REMITTANCE ADVICE

Agency Name

LAS GALINAS VLY SANITARY DIST

Account Number

70-21-005

As of 04/15/2021, your Local Agency Investment Fund account has been directly credited with the interest earned on your deposits for the quarter ending 03/31/2021.

Earnings Ratio		.00001214175683392
Interest Rate		0.44%
Dollar Day Total	\$	2,512,841,292.26
Quarter End Principal Balance	\$	25,671,549.00
Quarterly Interest Earned	\$	30,510.31

5/6/2021

**Secondary Treatment Plant Upgrade and Recycled Water
Expansion Project Update Agenda Item 4.4**

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



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, Mike Prinz
Plant Operations, Mel Liebmann
Collections/Safety/Maintenance, Greg Pease
Engineering, Michael P. Cortez
Administrative Services, Dale McDonald

DISTRICT BOARD
Megan Clark
Rabi Elias
Craig K. Murray
Judy Schriebman
Crystal J. Yezman

April 06, 2021

Agenda Item 4.5
Date MAY 6, 2021

The Honorable Dianne Feinstein
United States Senate
331 Hart Senate Office Building
Washington, DC 20510

The Honorable Ken Calvert
United States House of Representatives
2205 Rayburn House Office Building
Washington, DC 20515

Dear Senator Feinstein and Congressman Calvert,

In 2016, due to your steadfast efforts, Congress established a competitive grant program within the U.S. Bureau of Reclamation’s (USBR) Title XVI Water Reclamation and Reuse program to provide federal cost-share grant funding for water recycling projects in the arid West. As you know, Title XVI is the only active federal program with a focus on water recycling. We write today to thank you for your support for the program, and to ask you to help secure increased funding for the Title XVI-WIIN program in FY 2022.

Water projects funded through the Title XVI program have been used to increase the supply of drinking water, generate sustainable irrigation water, and help industries expand and create jobs, among other regionally important economic purposes. The program is not limited to the reuse of municipal wastewater—it also helps communities identify beneficial uses for industrial, agricultural, and domestic wastewater, as well as impaired ground and surface water.

There are currently dozens Title XVI-WIIN eligible projects awaiting assistance, with a total of more than \$700 million in eligible federal cost-share. This list will only grow as more projects become eligible. Title XVI-WIIN is an integral part of the federal funding partnership with local communities throughout the West to ensure they have safe and sustainable water supplies to meet demand. This is especially true in California, which has received the vast majority of Title XVI funding.

Given the critical role water reuse plays in California’s future water management, and given the overwhelming demand for Title XVI-WIIN projects across the West, we strongly urge you to provide no less than \$50 million for this program in FY 2022.

Thank you for considering our request. If you have any questions, please do not hesitate to contact Greg Fogel at gfogel@watereuse.org.

Sincerely,

Mike Prinz, PE
General Manager



Agenda Summary Report

To: Mike Prinz, General Manager *MP*
From: Mel Liebmann, Plant Manager mliebmann@lgsd.org 415-526-1526
Mtg. Date: May 6, 2021
Re: Bid Award - Biosolids Surface Injection and Reclamation Pastureland Irrigation Operations and Maintenance Services
Item Type: Consent Discussion Information Other
Standard Contract: Yes No (See attached) Not Applicable

STAFF RECOMMENDATION

Board to award a contract to Custom Tractor Services Inc. to provide Biosolids Surface Injection and Reclamation Pastureland Irrigation Operations and Maintenance

BACKGROUND

The District's NPDES Permit allows for surface injection of biosolids at the District's dedicated land disposal (DLD) site. Approximately 1,500,000 gallons of biosolids are removed annually from the District's sludge lagoons and land applied via surface injection. The District utilizes professional services to perform this disposal. District staff has developed a service contract which identifies the specifications for this work. This work is seasonally influenced and will be performed during the District's "Reclamation Season", typically May through October which coincides with the permit required discharge prohibition period.

Plant effluent that is discharged to the reclamation storage ponds during this time of year must be land applied in the irrigation pastures as a means of disposal. This reduces the storage burden and is anticipated to provide the capacity to successfully meet the full term of the prohibition period. The District utilizes professional services to operate and maintain the irrigation equipment, pasture preparation, and limited levee road maintenance during the reclamation season.

A single bid from Custom Tractor Services Inc. was received during the invitation for bids period. The Bid was officially opened and read on April 2, 2021 with the following result recorded:

Custom Tractor Services Inc.

Item 1: Sludge removal and sub-surface injection into the dedicated land disposal site. \$91,652

Item 2: Reclamation area and pasture irrigation Operations and Maintenance. \$102,185

Custom Tractor Services Inc. currently has Exhibit D (District Insurance Requirements) and Exhibit F (Contractor/Service Provider Safe Work Requirements) on file with the District. The bidder did not submit Exhibit E (Service Provider Professional Team). Based on prior experience, the District is aware that the professional services team for Custom Tractor Services Inc. is the owner/operator (Neal Carstensen). Written confirmation of this will be obtained from Custom Tractor Services Inc. prior to commencing work under this contract.



The District may conduct biosolids dewatering and land application in a different part of the District's reclamation area in the fall of 2021 as part of Strategic Initiative Number 2: Establish Beneficial Use of Biosolids. Bid item number 1 of Custom Tractor Services Inc.'s contract includes language that allows the District to delete that bid item if land application operational changes come to fruition prior to commencement of the DLD operation.

PREVIOUS BOARD ACTION

The Board awarded a contract to Custom Tractor Services Inc in the amount of \$251,834 for Biosolids Surface Injection and Reclamation Pastureland Irrigation Operations and Maintenance Services at the May 7, 2020 Meeting.

ENVIRONMENTAL REVIEW:

The activities described above comply with the District's NPDES permit and USEPA CFR Title 40, Section 503 regulations.

FISCAL IMPACT:

\$193,837

NOTICE INVITING SEALED BIDS

**LAS GALLINAS VALLEY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA**

**FOR PROVIDING BIOSOLIDS DISPOSAL & RECLAMATION
PASTURES IRRIGATION OPERATION & MAINTENANCE SERVICES
DURING FISCAL YEAR 2021-2022**

NOTICE IS HEREBY GIVEN that for and on behalf of the District Board, the General Manager of the Las Gallinas Valley Sanitary District, Marin County, California, will receive sealed bids up to, but not later than **10:30 AM on April 2, 2021**, for providing services for biosolids disposal and reclamation pastures irrigation operation and maintenance during the twelve-month period July 1, 2021 to June 30, 2022. Bids to be in accordance with Specifications that can be obtained from the office of the Las Gallinas Valley Sanitary District, 101 Lucas Valley Road, Suite 300, San Rafael, CA 94903 (415) 472-1734.

Said sealed bids shall be delivered to the General Manager of the District on or before said date and time, at the District office, 101 Lucas Valley Road, Suite 300, San Rafael, CA 94903. Any bids received after the scheduled closing time for receipt of bids shall be returned unopened. Bids will be publicly opened and examined on said day and hour by the General Manager or his authorized representative and will be referred to and considered by the Las Gallinas Valley Sanitary District Board of Directors at their meeting to be held at 3:30 PM on April 15, 2021 at its regular meeting place.

Bids shall be submitted on the form provided by the District and attached hereto and shall be enclosed in a sealed envelope bearing the name of the bidder and marked "BID FOR PROVIDING BIOSOLIDS DISPOSAL & RECLAMATION PASTURES IRRIGATION OPERATION & MAINTENANCE SERVICES". If submitting sealed bids for more than one service contract, EACH service contract must be enclosed in a separately sealed and appropriately labeled envelope.

The District Board may, at its discretion, reject any and all bids or waive any irregularities or informalities in any bid or in the bidding.

DATED: March 16, 2021

Las Gallinas Valley Sanitary District

By _____
Mike Prinz, General Manager

LAS GALLINAS VALLEY SANITARY DISTRICT

B I D F O R M

FOR PROVIDING SERVICES FOR IRRIGATION PASTURE OPERATION & MAINTENANCE and for BIOSOLIDS REMOVAL AND SURFACE INJECTION (1,500,000 GALLONS) DURING FISCAL YEAR 2021-2022

The undersigned, as bidder, declares that he/she has examined thoroughly the attached SPECIFICATIONS AND NOTICE INVITING SEALED BIDS, and that he/she hereby agrees, if this bid is accepted, to provide services for biosolids removal and surface injection to the Las Gallinas Valley Sanitary District in accordance with said Specifications and Notice for the following prices. **Agreement Term for all bid items is May 11, 2021 to June 30, 2022**

BASE BID

DESCRIPTION	ITEM PRICE
<p>ITEM 1: Sludge removal and sub-surface injection into DLD Area of 1.5 million gallons from Sludge Storage Ponds (approx. ½ of total pond volume) Price includes:</p> <ul style="list-style-type: none"> • Mowing biosolids injection field and roadways • Initial and periodic disking of DLD area to maximize disposal capacity/infiltration • Mixing of pond contents prior to and during removal • Removal of contents, transport and uniform injection in DLD site • Daily sludge flow monitoring • Collection of daily composite samples on sludge removal days and delivery to District Lab • Mowing levee roads around sludge lagoons and DLD (once) • Other work as required to complete project 	
Total Item 1 *see note (a)	\$ 91652.00
<p>ITEM 2: Reclamation Area and Pasture Irrigation Operations & Maintenance Price includes:</p> <ul style="list-style-type: none"> • Irrigation of approximately 100 million gallons of stored water from District's three effluent ponds • Chisel ripping Pastures #1 - #5 to 12" depth prior to commencement of irrigation • Disking Pastures #1 - #5 (Four Times) • Mowing levee roads around irrigation pastures (once) • Clear and Grub berms of Pastures #1, #2, #3 	

DESCRIPTION	ITEM PRICE
<ul style="list-style-type: none"> • High weed mowing in fields 1 through 5 prior to tillage of fields. • Bulldoze spoils from main drainage ditch for fields 1 and 2. • Disk cattail spoils north of storage ponds. • O&M of the pivot irrigation systems and of the available fixed irrigation equipment in areas of pasture not covered by pivots. Operation shall comply with the restrictions of Order R2-1992-064. • Maintenance of all above ground piping and appurtenances • Collection of one set of four soil samples for analysis by outside laboratory. Cost of analysis to be paid by the District. • Other work as required to complete the project 	
Total Item 2	\$ 102185⁰⁰

Bidder agrees to abide by The Las Gallinas Valley Sanitary District's requirements and all California State and Federal laws, regulations, and restrictions related to Biosolids handling and disposal. Bidder also agrees to abide by The Las Gallinas Valley Sanitary District's requirements under the San Francisco Bay Area Regional Water Quality Control Board under Order No. 92-064 and any Federal laws, regulations, and restrictions related to Land Application of Secondary Treated Effluent.

Note (a) The Las Gallinas Valley Sanitary District reserves the right to delete **Item 1 BIOSOLIDS REMOVAL AND SURFACE INJECTION (1,500,000 GALLONS)** in entirety if deletion is deemed necessary by the District. If deletion occurs after commencement of work related to item 1, the District will pay for all valid, documented costs associated with work completed under item 1 by such time that deletion is communicated in writing

Bidder encloses a Payment Schedule (Exhibit C), a copy of its insurance certificate in accordance with District Insurance Requirements (Exhibit D), identification of the Service Provider Team (Exhibit E) and a signed acknowledgment of the Contractor/Service Provider Safe Work Requirements (Exhibit F) with bid.

DATED: 3-29-2021


Signature of Bidder

Neal Carstensen owner
Print Name and Title

NAME AND ADDRESS OF ORGANIZATION:

Custom Tractor Service
484 Ely Rd Petaluma CA 94954

Telephone 707-484-1931

Fax Custom Tractor Service @ Gmail.com

E mail

Accepted:

Per Board Action on: _____


By:

Mike Prinz, General Manager

Date _____



Agenda Summary Report

To: Mike Prinz, General Manager 

From: Michael P. Cortez, PE, District Engineer
(415) 526-1518; mcortez@lqvsd.org

Meeting Date: May 6, 2021

Re: Will Serve Letter Signing Authority

Item Type: Consent Action Information Other

Standard Contract: Yes No (See attached) Not Applicable

STAFF RECOMMENDATION

Board to authorize District Engineer to issue Will Serve Letter(s) on behalf of the Las Gallinas Valley Sanitary District for items not requiring Board action per current District Ordinance.

BACKGROUND

It has been District staff's regular practice to request Board approval for issuance of Will Serve Letter (WSL) to all projects regardless of the additional flow contribution, including additions or alterations of existing structures, which typically have minimal impact to the downstream sewer system. The intent of this staff report is to provide clarity on the District Engineer's authority for issuing WSL for residential, commercial, and other development projects not requiring Board authorization. Per District Ordinance, Title 2, Chapter 1, Board actions are not explicitly required for all projects, except the following:

- Final Subdivision Map
- Private Sewage Disposal System
- Easement or Grant of Right-of-Way
- District Financial Participation in Construction of Wastewater Facilities
- Annexation
- Additions or alterations of existing structures causing the existing to **exceed 40 PFU**

All other items not listed above could be approved at staff level and the District Engineer should have discretion issuing WSL to projects meeting District requirements that are 40 PFUs or less. However, large residential and commercial development projects will be reported to the Board prior to issuance of WSL. Simplifying the WSL process would reduce administrative paperwork, valuable Board meeting time, and wait times for project applicants. Staff will provide information such as brief project description, number of additional plumbing fixtures, connection fee, potential access or capacity issues, and other relevant items in the bi-monthly engineering reports for all WSL issued under the District Engineer's authority.

PREVIOUS BOARD ACTION

N/A



ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

N/A

Agenda Summary Report

To: Mike Prinz, General Manager *MP*
From: Teri Lerch, Board Secretary *TL*
(415) 526-1510 terch@lgvsd.org
Meeting Date: May 6, 2021
Re: Board Norms Summary Document
Item Type: Consent _____ Action X Information _____ Other _____
Standard Contract: Yes _____ No _____ (See attached) Not Applicable X

STAFF RECOMMENDATION

Staff recommends that the Board review and approve the attached Board Norms. Staff further recommends that Board members and staff use the Board Norms Summary Document as a guide regarding procedural details, issues and public meeting practices.

BACKGROUND

The Board has regularly expressed interest in improving board meeting efficiency and shortening meeting durations, which are very likely to be realized through procedural enhancements that will flow from a discussion and memorialization of Board Norms.

PREVIOUS BOARD ACTION

On January 29, 2021, the Board and staff participated in a workshop to formally acknowledge Board Meeting expectations and procedures in the future. Topics discussed included:

- Purpose and Function of Board Meetings
- Board Meeting Process
 - Development and approval of Agendas
 - Board Member Responsibilities
 - Interaction with the Public
 - Meeting Protocols Using Robert's Rules of Order
- District Counsel Role
- General Manager Role
- Brown Act Compliance

Staff subsequently worked with the Board President to memorialize the January 29th workshop via the attached Board Norms Document.

ENVIRONMENTAL REVIEW

N/A

FISCAL IMPACT

N/A

LGVSD Board Norms

1. Board members will review meeting packages in entirety prior to the Board Meeting.
2. Whenever possible, Board Members will seek answers to questions about agenda items prior to Board meetings by contacting either the Staff Report Author or the General Manager.
3. Board members are encouraged to greet the general public in attendance at any given meeting without acknowledging individual attendees.
4. The Board President will exercise responsibility for managing the pace of Board meetings and ensure discussions pertain only to the agenda item at hand.
5. Board members will hold comments and questions until the end of any given presentation, whether delivered by staff or consultants, in order to avoid disrupting the presentation.
6. The Board President will recognize and call on board members to speak.
7. Board Members are encouraged to present all of their questions/viewpoints when called upon before another member is subsequently called upon.
8. Items of interest that come up during discussion but that are not on the agenda may, upon formal request, be brought forward on a future agenda, and will not be discussed without being properly agendized.
9. Agenda items may be tabled or continued to a future meeting if meeting duration or need for additional information warrants doing so.
10. Board Member reports will be prepared in advance and delivered as efficiently as possible in order to avoid extending the duration of any given meeting.
11. The Board President may provide brief factual information in response to public comments, however dialogue with members of the public during the public comment period is to be avoided.

AGENDA ITEM 8

5/6/2021

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.

5/6/2021

BOARD MEMBER REPORTS

CLARK

NBWA Board Committee, 2021 Admin Building Ad Hoc Committee, Other Reports

ELIAS

NBWRA , Ad Hoc Engineering Sub-Committee re: STPURWE, 2021 GM Evaluation Ad Hoc Subcommittee, 2021 Admin Building Ad Hoc Committee, Other Reports

MURRAY

Marin LAFCO, CASA Energy Committee, 2021 GM Evaluation Ad Hoc Subcommittee, 2021 Legal Services Ad Hoc Committee, Marin Special Districts Association, Other Reports

SCHRIEBMAN

Gallinas Watershed Council/Miller Creek Watershed Council, JPA Local Task Force, NBWA Tech Advisory Committee, Other Reports

YEZMAN

Flood Zone 7, CSRMA, Ad Hoc Engineering Sub-Committee re: STPURWE, 2021 Legal Services Ad Hoc Committee, Other Reports



AGENDA

Agenda Item 9.3.1
Date May 6, 2021

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

Meeting Date/Time: April 22, 2021 / 8:30 – 10:30 am
Meeting Location: Zoom Link (provided in the meeting appointment)
Dial-in: Zoom Call-In (provided in the meeting appointment)

COMMENCEMENT

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

LEGISLATIVE UPDATE

	ITEM	LEAD	STATUS
1.	2021 Bill Cycle	Jessica/ Alma	Bill Review – updates on ACE Bill Report
2.	Governor’s Budget	Jessica	May Revise and Senate Budget Plan, Water-Energy Bond Ask Subgroup

PRIORITY ISSUES/ACTION ITEMS

	ITEM	LEAD	NOTES
1.	COVID-19	Greg	Resources on CASA Website , CASA/CWEA webinar: April 21 , CWEA webinar: May TBD, Wastewater Based Epidemiology (WBE)
2.	PFAS	Greg Jared	SWRCB Order Sampling Results Roundtable held Apr 20, Clean Water Summit Partners Workshop held Apr 21
3.	Criteria Pollutants & Toxics Emissions Reporting & AB 2588 Toxics Program	Sarah David	Air Toxics Subgroup, proposed CTR and EICG , comments on formal 15-Day Changes submitted Apr 14
4.	SB 1383: Organic Waste Methane Emissions Reductions	Greg	SB 1383 , enforcement remains on schedule, regulations , impacts to POTWs , CalRecycle Webinar Series, next: Apr 28 (non-local entities)
5.	CARB Advanced Clean Truck Rule (2020) & Advanced Clean Fleet Rule (2021)	Sarah	Advanced Clean Vehicle Subgroup, One-Time Reporting due May 1, Clean Fleet Rule comments submitted Apr 2, Met CARB staff Apr 16
6.	New BACT for Large Emergency Diesel Engines: BAAQMD, SCAQMD, SMAQMD	Sarah	BAAQMD determined Tier 4 engines achieved-in-practice, no public process, applied retroactively; SMAQMD requesting comments by Apr 30 ; SCAQMD to begin public process end of May/June
7.	Healthy Soils Initiative and NWL Climate Change Implementation Plan	Sarah Greg	Working with SWRCB and RWQCBs to discuss biosolids land app for achieving 2030 and 2050 climate change mitigation targets
8.	CA Adaptation: SWRCB/RWQCBs, Coastal Commission	Sarah	Climate Change Preparedness Subgroup, SWRCB Survey late 2021, met with SWRCB Mar 30, SF Bay RWQCB survey , RWQCB efforts
9.	AB 32 Environmental Justice Advisory	Sarah	Committee opening, Applications due 5 pm, Apr 26

INFORMATIONAL ITEMS

	ITEM	LEAD	NOTES
1.	Soil Enrichment Protocol	Sarah	Webinar overview – doodle poll to schedule
2.	Carbon Sequestration Meta-Analysis	Sarah	Requesting help with systematic article reviews and data extraction
3.	Biogas/Biomethane Management: EPA Renewable Fuel Standard RINs	Greg	Communication with Kurt Gustafson resuming to discuss the R3 vs R5 value for sludge-based vs codigestion-based biogas
4.	CPUC Self-Generation Incentive Program	Greg	CASA responds to Commissioner questions Mar 22
5.	SB 100 Joint Agency Report	Sarah	Revised report released Mar 15, no changes, discuss next steps
6.	BAAQMD Climate Pollutants Regulation	Sarah	Regulation 13 suspended, Organic Recovery Technical Working Group BMPs for controlling CH ₄ /VOCs, BACWA to Survey POTWs
7.	SCAQMD Rule 1118.1 (to limit NOx)	David	Research/technology assessments, impact to standby engine use
8.	Central Valley Salinity Alternatives for Long-Term Sustainability (CV SALTS)	Debbie Layne	Notice to Comply for salinity released, nutrient management early action plans released, Attorneys Roundtable Apr 29
9.	Biosolids & Fire Reclamation Efforts	Greg	Status of Las Virgenes/Calabasas, sampling into spring 2021
10.	USFS Wood Innovation Grant	Greg	2-yr project testing use of biochar for odor control, Final Report

UPCOMING CONFERENCES/EVENTS

NAME	DATE/LOCATION
WEF Knowledge Development Forum (KDF): Biogas cleaning/upgrading	April 27-28 (Virtual)
CWEA-CASA Partnering for Impact Workshop	May 5 (session on innovative uses of biosolids)
WEF Residuals & Biosolids Conference	May 11-13 (Virtual)
CVCWA Annual Conference	May 11-12 (Virtual)

NEXT MEETING: May 27th, 8:30 to 10:30 am (webinar/conference call)



AGENDA

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

Additional topics we review periodically for progress or changes:

State

- CARB Natural & Working Lands
- CARB Mandatory GHG Reporting Regulation
- CARB 2030 Target Scoping Plan
- CEQA Guidance on GHG Emissions
- CNRA Climate Change Assessment
- CNRA Online CA Sea Level Rise Database
- CNRA Safeguarding CA: Implementation Action Plans
- CEC Climate Change Research Plan
- OEHHA CalEnvironScreen Tool
- California's Climate Future report (by Governor Brown)
- Funding opportunities

Regional Adaptation Collaboratives

- Bay Area Climate Adaptation Network (BayCAN)
- San Francisco Bay Regional Coastal Hazards Adaptation Resiliency Group (CHARG)
- Southern California Association of Governments (SCAG) Regional Climate Adaptation Framework

National

- NEPA Guidance on GHG Emissions
- EPA EJScreen Tool
- WERF Phase II Project (lab scale based model) - N₂O Emissions from Wastewater Treatment Processes
- WERF High Quality Biosolids from Wastewater Project
- EPA Mandatory GHG Reporting Regulation Updates
- EPA Clean Power Plan (on stay)
- EPA Existing Source Performance Standards
- EPA Biogenic Emissions Accounting Framework
- White House Budget for DOE Energy Efficiency and Renewable Energy Programs
- NACWA Energy Workgroup
- NACWA Climate & Resilience Workgroup
- Funding opportunities

International

- Global GAP (Good Agricultural Practices) & Biosolids
- IWA Nitrous Oxide Modeling

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

April 22, 2021 (8:30 – 10:30 am)
Zoom Link – See Meeting Appointment



1

Legislative Update



2

Assembly Bills – 2021

- AB 11 (Ward) Regional climate change authorities
- AB 50 (B. Horvath) Climate adaptation center and regional support network: sea level rise
- AB 64 (Quirk) Long-term backup electricity supply strategy
- AB 67 (Petrie-Norris D) Sea level rise: working group: economic analysis
- AB 72 (Petrie-Norris D) Coastal adaptation projects: sea level rise: regulatory review and permitting
- AB 96 (O'Donnell D) CA Clean Truck, Bus, and Offroad Vehicle and Equipment Technology Program
- **AB 284 (Rivas, Robert D) Climate goal: natural and working lands**
- AB 322 (Salas D) Electric Program Investment Charge program: biomass
- AB 426 (Bauer-Kahan D) Toxic air contaminants
- AB 585 (Rivas, Luz D) Extreme Heat and Community Resilience Program
- AB 649 (Bennett D) CalRecycle: Office of Environmental Justice and Tribal Relations
- AB 843 (Aguiar-Curry D) Renewables Portfolio Standard Program: renewable feed-in tariff
- AB 897 (Mullin D) ORP: regional climate networks: climate adaptation action plans
- AB 1001 (Garcia, Cristina D) Environmental permitting and air pollution
- AB 1005 (Muratsuchi D) Scientific Review Panel on Toxic Air Contaminants
- AB 1027 (Seyarto R) Solid and organic waste
- AB 1086 (Aguiar-Curry D) Organic waste: implementation strategy
- AB 1261 (Burke D) State Air Resources Board: greenhouse gas emissions: incentive programs
- AB 1279 (Muratsuchi D) Coastal resources: sustainable kelp
- AB 1296 (Kamlager D) South Coast Air Quality Management District: district board: membership
- AB 1317 (Berman D) Clean energy

3

Assembly Bills (cont'd) – 2021

- AB 1325 (Burke D) Microgrids: Clean Community Microgrid Incentive Program
- AB 1371 (Friedman D) Recycling: plastic: packaging and carryout bags
- **AB 1463 (O'Donnell D) Low Carbon Fuel Standard regulations**
- AB 1500 (Garcia, Eduardo D) Safe DW, Wildfire Prevention, Drought Preparation, Flood Protection, Extreme Heat Mitigation, and Workforce Development Bond Act of 2022
- AB 1559 (O'Donnell D) Energy: Innovative Renewable Energy for Buildings Act of 2021

Senate Bills – 2021

- SB 1 (Atkins D) Coastal resources: sea level rise
- SB 18 (Skinner D) Green hydrogen
- **SB 27 (Skinner D) Carbon Sequestration: state goals: natural and working lands: registry**
- SB 45 (Portantino D) Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2022
- SB 83 (Allen D) California Infrastructure and Economic Development Bank: SLR Revolving Fund
- SB 372 (Leyva D) Medium- and heavy-duty fleet purchasing assistance program: zero-emission vehicles
- SB 418 (Laird D) Sea level rise planning: database
- **SB 619 (Laird D) Organic waste: reduction regulations**
- **SB 669 (Borgeas R) California Renewables Portfolio Standard Program: bioenergy projects**
- **SB 697 (Hueso D) Cap-and-Trade Program: Green Hydrogen Credit Program**
- SB 759 (Hueso D) Short-lived climate pollutants: methane: organic waste: landfills

4

Governor’s Budget: May Revise and Senate Budget Plan

- Drought Protection: Build Back Boldly budget makes a \$2 billion commitment to mitigate impacts of drought
- \$500 M for Community Water Investment Fund to help smaller, lower income communities
- \$500 M Water Conservation Fund for homeowners/small businesses/local agencies
- \$300 M for emergency Sustainable Groundwater Management Plan assistance
- \$700 M for other one time and immediate investments in water quality, species protection, stormwater, water recycling, water monitoring equipment and other investments to reduce drought impacts

April 21st - White House launched Drought Relief Working Group to address urgency of western water crisis



5

Governor’s Budget: May Revise and Senate Budget Plan

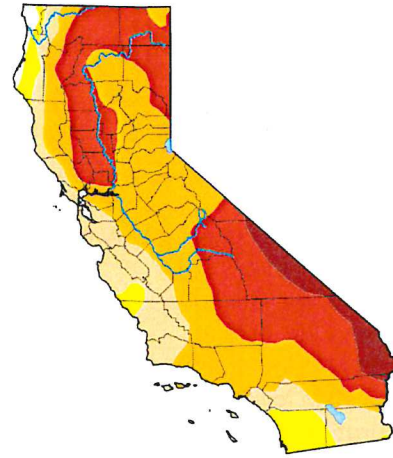
- Wildfire Prevention and Resilience: Build Back Boldly budget builds on early action budget package to provide a sustainable multi-year commitment to address wildfire crisis
- Provide funding consistent with the Senate’s “Blueprint for a Fire Safe California” — e.g., provide short- and long-term funding for wildfire, climate, watershed and forest health; implement modern-day vegetation, forest management, and community hardening plans; and train and deploy a fire resiliency workforce
- Significantly increase multi-year funding to wildfire prevention and resiliency programs and projects to save on suppression costs and wildfire damage
- Focus multi-year funding on projects with both wildfire and drought resilience benefits

Every dollar spent on prevention saves \$6-7 in wildfire damages

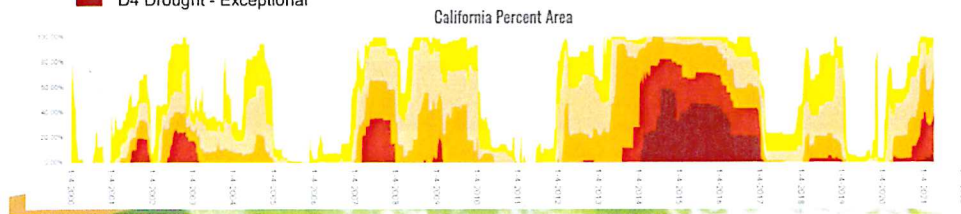


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Drought conditions are worsening...prepare for PSPS events and wildfire!



Intensity:
D0 Abnormally Dry
D1 Drought - Moderate
D2 Drought - Severe
D3 Drought - Extreme
D4 Drought - Exceptional



7

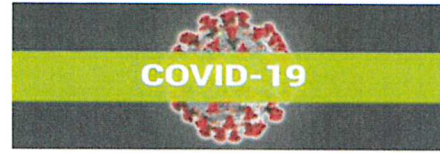
Priority Issues/ Action Items



9

1. COVID-19

- CWEA-CASA Webinar – April 21st
- CWEA Webinar – May TBD
- CASA website for resources: <https://casaweb.org/covid-19/>
- Wastewater-based epidemiology (WBE) efforts →
 - Survey sent (from Greg Kester) on behalf of Water Quality Monitoring Council to understand who is participating in surveillance, labs used, and other details
 - CDC managing national database (SWRCB to submit data) – National Wastewater Surveillance System
 - Health and Human Services data collection target: 30% population



COVID-19 is impacting the wastewater community in a variety of unique and challenging ways. Below are a series of resources that may be useful to reference for local wastewater agencies as we navigate through this crisis. As a reminder, this information represents the state of our knowledge at a point in time, and should be used as a resource for exploring additional actions. Circumstances are always subject to change, and agencies must make their own decision about what course appropriately balances public safety while ensuring the continued delivery of critical infrastructure services.



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2. Per and Poly-fluoroalkyl Substances (PFAS)

- Quick facts:
 - Background levels are in ppb range
 - Notification levels: PFOS at 6.5, PFOA at 5.1 ppt, PFBS at 500 ppt
 - Response levels for PFOS/PFOA: 40/10 ppt (from 70 ppt), PFBS at 5000 ppt
- SWRCB Order (Roundtable held April 20th on first round of samples)
 - Quarterly sampling of influent, effluent (if ≥1 mgd)
 - Quarterly sampling of biosolids if ≥5 mgd or annual if 1-5 mgd
 - GW monitoring programs to do one-time sample
 - Check Geotracker data!
- Region 2 response in partnership with SFEI (Phase 1 data to inform Phase 2)



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2. Per and Poly-fluoroalkyl Substances (PFAS)

- Other efforts underway
 - Summit Partners Meeting – April 21
 - National Coalition of Receivers – fact sheet revisions and engaging new congress

- EPA PFOS/PFOA Problem Formulation
 - Recognizes receivers, importance of source control
 - EPA Risk Assessment Process (adopt by end 2021)
 1. Deterministic screening model
 2. Probabilistic model (full risk assessment)

- EPA to award 4 teams summer 2021, ~\$1.5 M each to investigate pollutants in biosolids (27 proposals received)



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3. Criteria Pollutants & Toxics Reporting and Air Toxics “Hot Spots” Program Updates

- AB 617: Criteria Air Pollutant and Toxic Air Contaminant Reporting (CTR)

Was requiring all WWTPs to report full Hot Spots compound list (>500 compounds).

 - Implements statewide annual reporting of criteria air pollutant and toxic air contaminant emissions data from facilities. It establishes new policies to improve emissions inventory data (critical to understanding sources contributing to adverse health risks or other impacts at the local, regional, and statewide level).

- AB 2588: Air Toxics "Hot Spots" Program (Hot Spots Program)

Expands Hot Spots compound list to ~1,000 compounds (including 60 PFAS compounds for WWTPs).

 - Establishes a statewide program for the inventory of air toxics emissions from individual facilities, as well as requirements for risk assessment and public notification of potential health risks.



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3. Criteria Pollutants & Toxics Reporting and Air Toxics “Hot Spots” Program Updates

- Formal 15-Day Changes draft released March 29th
- Met with CARB staff April 2nd and 14th

Confirmed our interpretation of the regulatory language:

- Intent for all WWTPs to report business as usual through 2028, including those (GHG Facilities) that trigger original applicability thresholds
- Wastewater sector has through 2028 to perform “two-step process” (collaborating with CARB and air districts) to determine shortlist of compounds to quantify/report in 2029
- Two-step process:
 1. GC/MS Scan for determining detectable compounds
 2. Quantification Process (once quantification methods have been approved by CAPCOA and Scientific Review Panel) - mimic 1990 Pooled Emissions Estimation Program (PEEP)



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3. Criteria Pollutants & Toxics Reporting and Air Toxics “Hot Spots” Program Updates

- Comments submitted April 14th – intend to acknowledge our letter in the Final Statement of Reasons
- May have one more comment period if there are extensive comments
- Once formal regulatory draft is submitted to OAL, CASA to draft outline of wastewater sector’s formal approach to the two-step process and identify participating agencies



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4. SB 1383: Organic Waste Methane Emissions Reduction

- 40% methane reduction by 2030 (relative to 2013 levels)
- Organic waste diversion from landfills (*includes biosolids, digestate, and sludges*)
 - 50% by 2020 (relative to 2014 levels)
 - 75% by 2025 (relative to 2014 levels)
- Implementation
 - State to enforce on jurisdictions Jan 1, 2022
 - Local jurisdictions to start enforcement Jan 1, 2024
 - Compliance by Jan 1, 2025



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4. SB 1383: Organic Waste Methane Emissions Reduction

- Items to address...
 - Understand how to handle County Ordinances
 - Determine if there will be flexibility with enforcement or if implementation will be delayed (SB 619 may extend the deadline)
 - Understand procurement of products and if they will reopen consideration of other products
 - Transfer of Emission Reduction Credits (offsets) from landfills to projects that divert/process organic waste
 - Streamlining permitting (Ventura County composting facility)
 - Updates to General Order
- CalRecycle webinars, next one: April 28th (see link in agenda)
 - Non-Local Entities (includes entities not subject to the control of a jurisdiction's regulations related to solid waste, including special districts)



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5. CARB Advanced Clean Vehicle Regulations

Advanced Clean Truck Rule

- Requires manufacturers increase electric vehicles sales thru 2045
- Requires large entities report vehicle 2019/2020 activity by **May 1, 2021**:
 - >\$50 M in revenue from related subsidiaries, subdivisions, or branches, and has at least one vehicle
 - Owns 50 or more vehicles
 - Dispatches 50 or more vehicles into or throughout California
 - Is a government agency (federal, state, local, and municipalities)!

Next Steps...

- OAL approved March
- **Report activity data by May 1st**
- Activity data will be used as basis for Clean Fleet Rule regulatory development.
- Be sure to report:
 - Mileage
 - Hours of operation
 - Remote assets
 - Specialty vehicles and needs

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5. CARB Advanced Clean Vehicle Regulations

Advanced Clean Fleet Rule

- Zero-emission fleets by 2045
- Government entities viewed as early adopters
- Convert public fleets by 2035 (purchase agreement by 2027)
- Goal to adopt regulation by end of 2021 (may extend into 2022)
- Workshops held 3/2 and 3/4

Next Steps...

- Comments submitted 4/2
 - Provisions for essential public services
 - Wastewater biogas as a low carbon transportation fuel
 - Develop exemption process with timeline for essential public services (consider cost)
 - Support normal replacement cycle of vehicles within public fleets and delayed start date for low population counties
 - Support purchases of NZEV
 - Regulatory timeline to reflect the need for flexibility in planning
 - Avoid stranded assets
 - Early action credit
- Met with CARB 4/16
- Draft regulation to come – 45-day comment period

Working with ACWA, CMUA,
SCPPA, CSDA and SoCalGas

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6. New BACT for Large Emergency Diesel Engines

- BAAQMD issued the determination December 22, 2020
- No stakeholder process, no previous notification
- Deemed achieved-in-practice based on installations vs operation
- Retroactively applied to permit applications open since Jan 1, 2020
Unprecedented!

EPA Tier 4 Emission Standards

Pollutant	BACT Limit
POC	0.14 g/bhp-hr
NO _x	0.5 g/bhp-hr
SO ₂	CARB Diesel (15 ppm sulfur)
CO	2.6 g/bhp-hr
PM-10	0.02 g/bhp-hr

BAAQMD Rule 2-1-409 states "regulations or standards in force on the date the application is declared by the APCO to be complete"

BACWA submitted letter on retroactive application



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6. New BACT for Large Emergency Diesel Engines

- BACWA to engage BAAQMD Board Members
- CASA to engage:
 - Sacramento Metro AQMD requested public comment – due April 30th
 - South Coast AQMD to convene end of May/early June
 - Coordinate with Hospital Association as an essential public service (Tier 4 Engine in SoCal hospital automatically shut off due to low urea)
 - Coordinate meeting with CARB staff



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7. Biosolids role in Healthy Soils Initiative & NWL Climate Change Implementation Plan

- Healthy Soils Initiative
 - Biosolids help achieve every goal of the Action Plan

- Natural & Working Lands Climate Change Implementation Plan
 - Enhance resilience & potential carbon sequestration through management & restoration (30 x 30)
 - Advance statewide objectives for renewable energy & fuels, agricultural markets, soil health, etc.

- President Biden’s Initiative for Climate Resilience in Agriculture
 - CASA has offered to assist in development and implementation
 - Part of broader plan to create a 2030 GHG reduction target

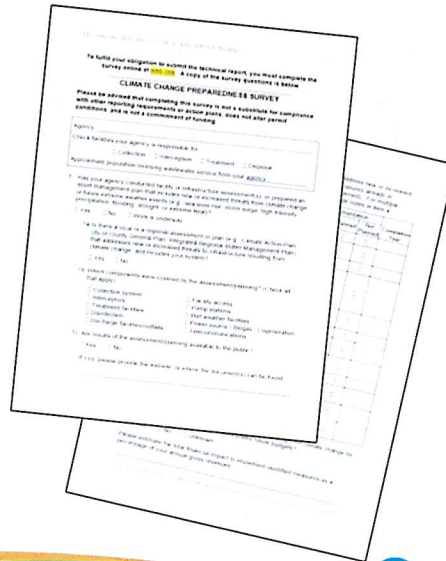


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8. CA Adaptation: SWRCB Climate Change Preparedness Survey

- State Water Board to:
 - Send NPDES and WDR permit holders to be surveyed in late 2021
 - 45-day response
 - Webinar after formal distribution

- Actions:
 - Met with SWRCB staff Mar 30th
 - Consider piloting survey (as BACWA did for RWB survey)
 - Consider developing guidance for responding to survey



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8. CA Adaptation: SWRCB Climate Change Response Update

- Priority Areas discussed Mar 16th (with near- and long-term actions)
 1. Drinking Water: SAFER (Safe and Affordable Funding for Equity and Resilience) & small system drought resilience program
 2. **Wastewater and Co-digestion:** recognized DACs and air quality issues to address, as well as carbon sequestration
 - Reduce landfill methane using existing digestion capacity and produce biogas and biosolids (for c-sequestration and supporting healthy soils)
 - Environmental Justice Leaders to meet on implementation of co-digestion
 - Need clear permitting requirements – survey to be delivered later this year
 - Helping support inclusion of biosolids in the healthy soils initiative
 - CARB-funded model to be built by UC-Merced for Natural and Working Lands – assessing c-sequestration and water benefits
 3. **Sea Level Rise:** infrastructure and vulnerable communities (consider [Principles for State Action](#) - 1 ft SLR by 2030 and 7.6 ft by 2100)
 4. Harmful Algal Blooms: increasing in frequency and severity

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8. CA Adaptation: Coastal Commission and RWQCB efforts

- Coastal Commission planning for sea level rise – met with staff to discuss:
 - Need for better coordination on a project/permit basis – avoid duplication those efforts
 - Need for better coordination at state agency level between CCC and SWRCB on requirements for performing vulnerability assessments
 - Certainty of which projections (and documents) agencies rely upon in their planning (i.e., the 2018 OPC Sea Level Rise Guidance, [Principles for State Action](#))
- Draft SSS WDR consists of System Resiliency Actions
- Regional Boards –
 - SF Bay RWQCB released its survey
 - Matrix of latest efforts

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9. AB 32 Environmental Justice Advisory Committee Opening

- Advise CARB in development of 2022 Scoping Plan Update
- CARB estimates at least 5 meetings starting as early as June 2021 and continuing through summer 2022, with opportunity for at least 5 sets of community meetings
- Criteria to select potential new members include:
 - Represent communities with most significant exposure to air pollution, including communities with minority populations or low-income populations
 - Regional representation and advocates from faith-based organizations, neighborhood organizations, non-profit organizations, and tribes
 - Expertise in transportation; fossil gas grid and electricity grid decarbonization and infrastructure; natural and working lands; clean fuels and technology; public health
 - Environmental justice experience in topic areas that contribute to perspectives of existing active committee members
 - Conflict of interest response:
Any personal conflict of interest (whether a financial interest, personal activity, or relationship) that could impair your ability to act impartially and in the best interest of EJAC?
- Applications due 5 pm, April 26th



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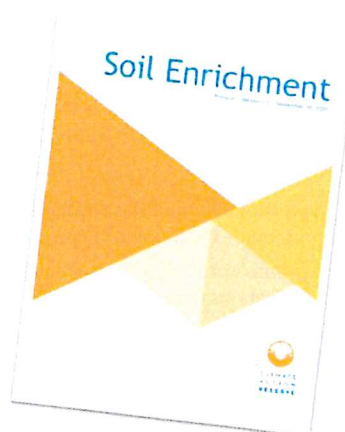
Informational Items



27

1. Soil Enrichment Protocol (SEP)

- Climate Action Reserve (Reserve)
- Published September 2020
- Provides guidance to **account for, report, and verify** GHG emission reduction associated with soil enrichment projects
- Produce **carbon offset credits**, referred to as Climate Reserve Tonnes (CRTs)
- **Soil enrichment projects** are defined as the adoption of sustainable agricultural land management practices intended to increase soil carbon sequestration and/or decrease net GHG emissions, via changes to:
 - Fertilizer application
 - Soil amendment application
 - Water management/irrigation
 - Tillage/residue management
 - Crop planting and harvesting
 - Fossil fuel usage
 - Grazing practices



Presentation to step through the calculation process – doodle poll sent

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2. Carbon Sequestration Meta-Analysis

- **Request for Biosolids Soil Carbon Systematic Article Reviews and Data Extraction**
- Virginia Tech researchers funded to quantify carbon sequestration potential from land-applied biosolids from analysis of existing data
- Systematic review of published and unpublished data (13,000+ abstracts)
- Seeking assistance with Full-text Review (2 people per Review) – focused on Materials and Methods section and checking for soil organic carbon/matter data
- No funds available to compensate for time, offering authorship
- If you, a PhD student, postdoctoral researcher, or someone who would like to help, **please reach out to Mike Badzmierowski, Greg Evanylo, and Lee Daniels!**
- If you have non-published data regarding biosolids land-application and changes in soil organic carbon/matter concentrations and stocks, consider sending it to be included in the grey literature search
- Data (with consent of authors) to be added to an open-access repository.
- Promote biosolids research, identification of research gaps, and inform and harmonize future collection methods

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3. Biogas/Biomethane Management: RINs

- EPA Renewable Fuel Standard RINs
 - Met with Kurt Gustafson
 - Discussed interpretation of RFS related to RIN values for sludge-based biogas (D3) vs food waste-based biogas (D5)
- Next Steps
 - Appeal to higher authorities within EPA
 - Pursue legislative clarity through Congress



30

4. CPUC Self-Generation Incentive Program

- CASA responded Mar 22nd to **questions** from Commissioner
- The Commission asked if it should revise SGIP renewable generation technology requirements to:
 1. **Remove directed biofuels as an eligible fuel?**
 2. **Remove internal combustion engines from the list of eligible technologies?**
 3. Exclude crops grown solely for energy production (commonly referred to as “purpose-grown crops”) as eligible feedstocks for renewable fuels?
 4. Limit eligible sources of renewable hydrogen to “green electrolytic hydrogen”?
 5. Define green electrolytic hydrogen as hydrogen produced at the project site, or delivered to the project site by vehicle or dedicated pipeline, that was produced through electrolysis using:
 - 100% renewable electricity, as defined by the RPS, with the addition of large hydro;
 - 100% renewable electricity from a RPS purchase program that provides bundled renewable energy credits to the electricity purchaser; and
 - excluding hydrogen gas manufactured by any other method?
 6. Direct SGIP Program Administrators to issue a single 30-day warning when renewable fuel use documentation is not provided as required, followed by issuance of an infraction and initiation of procedures of the SGIP handbook if the required information is not provided within 30 days of issuance of the warning?



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5. SB 100 Joint Agency Report

- 100% Clean Energy Act of 2018
- Renewable and zero-carbon resources to supply 100% of electric retail sales to end-use customers by 2045
- CEC, CPUC, and CARB drafted joint agency report to Legislature identifying pathways to achieve mandate
- CASA submitted comments recommending:
 - Inclusion of biogas/biomethane in SB 100 PATHWAYS
 - State level interagency coordination on utilization of biogas/biomethane supporting goals/mandates
 - Utilizing cost and supply information already compiled
 - Support for the Draft Report's recommendation supporting research and innovation in clean energy technologies, including biogas/biomethane produced by POTW anaerobic digesters

Sent copy of letter to:

Jared Blumenfeld, CalEPA
 Anil Prabhu, CARB
 Mark de Bie, CalRecycle
 Wade Crowfoot, CNRA
 Tim Olsen, CEC
 David Hochschild, CPUC
 Jamie Ormond, CPUC
 Karen Ross, CDFA
 Amrith Guneseckara, CDFA
 Max Gomberg, SWRCB

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6. BAAQMD Climate Pollutants Regulation 13

CH₄

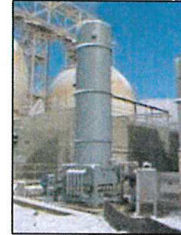
Rule development suspended due to COVID-19 & lack of data

- BAAQMD realized it needed more data, before drafting regulations!
- Draft BMPs summarized for Organic Material Handling and Compost Facilities
- BACWA to summarize current BMPs for POTWs via survey, specifically:
 - Anaerobic digesters and ancillary equipment
 - Other treatment processes (i.e., lagoons)
- BAAQMD may incorporate BMPs as part of standard permit conditions vs further regulate

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7. Rules to limit NO_x: SCAQMD Rule 1118.1

- SCAQMD – Rule 1118.1
 - Technology Assessments Status – SCAQMD staff to work with stakeholders on impacts of food waste diversion and beneficial use alternatives to flaring
 - Impact to emergency engine use



35

8. Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS)

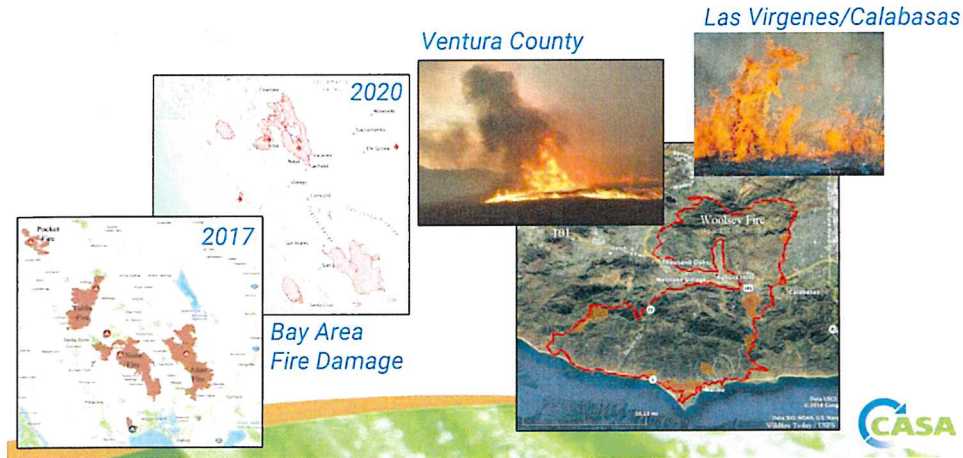
- **Nutrient (Nitrate) Management**
 - Nitrate Management Orders went to POTWs within priority basins (those land applying biosolids)
 - Only applicable in Priority 1 or 2 GW Basins
 - Early Action Plans released for review
 - Roundtable April 29th
- **Salt Management**
 - Notice to Comply released
 - Phase 1: Prioritization & Optimization Study (P&O Study) approved in March
 - Late 2020 to early 2021
 - 30- to 35-year study



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9. Biosolids and Fire Reclamation Efforts

- Site secured in Las Virgenes/Calabasas (Phase 1) for Class B cake, Class A compost, and Class A dried pellets for land application + control site
 - Finalizing data analysis from Dec 2019 rain sample, to continue through spring 2021
 - Formal report to come in 2021
- Looking for a site in Bay Area (Phase 2) and back to Colorado (Phase 3)



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10. U.S. Forest Services Wood Innovation Grant



- Two-year grant from Sierra-NV Conservancy & Governor’s Office of Planning & Research (completed Dec 2019)
- Collaboration with U-CO and UC-Merced unit (owned by Phoenix Energy)
- Investigate viability of replacing GAC with biochar (from gasification of dead trees) for pre- and post-treatment odor control
 - Year 1: Perfect activation of biochar (bench to full scale)
 - Year 2: Agency testing (Delta Diablo, LACSD)
- University of CO has written report summarizing additional needs to develop a marketable product – Greg Kester finished reviewing report last year
- Finding: Biochar did not perform as well as GAC, but recommendations for improving its performance are provided
- Report anticipated to be complete by end of April 2021, final formatting underway

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Upcoming Conferences/Events

- **WEF Knowledge Development Forum: Biogas Clean & Upgrading Technologies**
April 27th-28th, Virtual
- **CWEA-CASA Partnering for Impact Workshop (session on innovative uses of biosolids)**
May 5th, Virtual
- **WEF Residuals & Biosolids Conference**
May 11th-13th, Virtual
- **CVCWA Annual Conference**
May 11th-12th, Virtual



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Upcoming Meeting

- May 27th

Make it a
great
Earth Day!



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Agenda Item 9.3.2
Date May 6, 2021

4/21/21

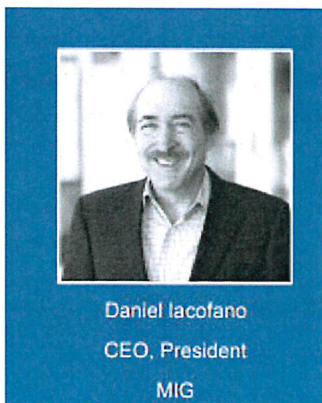
Craig K. Murray

ICMA Free Coaching Webinar - Best Practices to Manage Public Spaces

According to a study by the National Research Center, one of the top ten things that residents want in their community is the ability to be close to nature. Community parks and other open spaces where people can gather outside are important to residents. Most of us would agree that these areas are good for the community and there are many different ways to use these spaces; however, there can be challenges in operating and maintaining them. Our panelists will give you some best practices in managing public spaces.

Topics:

- 1. How do we ensure that our public spaces best meet the needs of our community and are welcomed as true assets by our residents and businesspersons?
- 2. What are some innovative ways to utilize “typical” public facilities in non-traditional, more attractive ways? (public art, water detention facilities, green roofs)
- 3. How can you promote the use of your public spaces and ensure that your public spaces are clean and welcoming?
- 4. What happens when the unplanned occurs—protests, homelessness, destruction of public property, etc? Are there groups in the community that you can build relationships with to help keep the community safe during unrest.



MIG/ Daniel: Iacofano book: Streets Reconsidered. <https://www.migcom.com/> Street Design (clutter); Traffic Safety : Leading Cause of Death of Children (collisions). ReStreets Conference UC Berkeley, Natl. Endowment of Arts: to create better spaces and 6 featured in book: reconsidered. After more than mobility, but social gathering. Eg San Antonio freeway ramp/walking corridor. Capture most enjoyable routes Point A/B. Mobile AL connect to Waterfront (in design, construction). Social interaction: shopping, sitting , eating, shade, food truck interaction. City of Seattle “Flexible Street” Thoroughfare then on weekends for peds to enjoy. San Antonio: Zona Cultural. Use graphics to help

ICMA Public Space Redesign 4 21 21

people understand. Boulder CO: Play areas in front of retail. & Jiana Gana Garden San Antonio, high level of animation. Farm Street of excess right of way into food space. Grow enough food for neighborhood, compact, vertical farming. Seattle: Green Street, downspout storm water and water street vegetation. Nashville TN green strip down middle. Community Pop Up events to demonstrate how can work. Get people involved in Neighborhood Streets. Virtual Open House: Charlotte, NC. Click on graphics to get bigger concept, use dashboard to show making progress and impt. to have that. Change American Cities through Street Design. Small, Medium and Large downs. Even more impt. w/o large population cities then you get the impact of gathering locations.

Which of the following Street Types would you consider for your city or town?

- Pedestrian-only streets
- Flexible streets
- Play streets
- Festival streets
- Farm streets (DI: little more Avant Garde)
- Green energy streets
- All of the above
- None of the above

What do you believe are the greatest barriers or obstacles to implementing any one or more of these street types?

- Funding
- Public safety
- Business community acceptance
- Broad community acceptance
- Traffic flow
- All of the above
- None of the above

Eg Santa Barbara: closed State Street recently, big business difference, people out. Visualizations, graphics, demonstrations on the street. Urban Accupuncture book, former Mayor of Brazil. Barcelona Spain Block Concept, reducing area for cars to safe streets, barrier to traffic flow. Audience: State Dept. of Transportation: impediments to change. DI: There is a movement, eg new Cal Trans Director strong background in Complete Streets. By testimonials show safety through creative designs as well.



Jen Krava, Forecast Public Art jenk@forecastpublicart.org, www.forecastpublicart.org, Harvard Design graduate. Univ. of Minn. Professor College of Design. Dakota People Lands, St Paul MN home for Forecast. <https://forecastpublicart.org/> Work across the country: connect people to public art

through equitable processes. Grants for MN artists to work on public design. Arts & cultural planning: cities, counties, transportation agencies. Do locational analysis and mapping. In person, online for creative place design. 20-30 projects around country with focus bringing more people of color into art. Monuments, Architectural, wall art & paving, sculpture, living art, water features, installations, performance art. From more permanent to seasonal to itinerant to more ephemeral. Public art can happen: sidewalks, squares, parks, transit stations, fringe spaces (under bridge), private plazas, accessible building interiors. From public to private locations. Public Art funding Models: ..\$1 bag golf tax. What can public art do: create new career opt. for public artists (eg CETA program).

FUNDING MODELS

- Percent for Art Funding
- Billboard tax
- License Plate fees
- Hotel/motel tax
- Gambling proceeds
- Tax return check box
- Postage stamps
- Microgrants and crowd-funding
- Meals hosted to fund
- Auctions—online and in person.
- Percent of private development fees
- "Golf tax" (\$1 from each bag rented)
- Graffiti abatement funds
- Corporate sponsorships
- Private gifts and loans
- Trading your art for other art
- Bartering with artists
- Grants and sponsorships

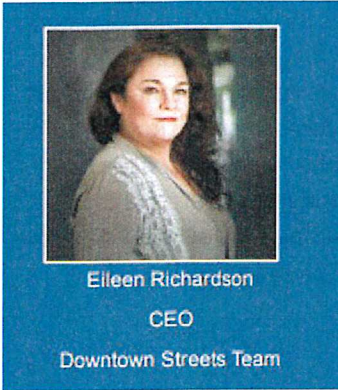
WHAT CAN PUBLIC ART DO?

- create new career opportunities for public artists
- attract attention, tourism, and generate economic activity
- connect communities and issues
- activate civic dialogues and participation
- give identity and character to communities
- humanize urban environments
- develop audience appreciation of the arts
- add value to public improvements and private development

Monument Lab. Group in Philadelphia to determine who gets a monument through public input.

ICMA Publication: Problem Solving Through Arts and Cultural Strategies: A Creative Placemaking Wayfinding Guide for Local Government Managers. ICMA publication: Problem Solving Through Arts and Cultural Strategies: A Creative Placemaking Wayfinding Guide for Local Government Managers.

Think about how Artists can be involved at the beginning of the project, an artist can help you see something that you are not seeing. Community Art and Culture folks are great to reach out to first.



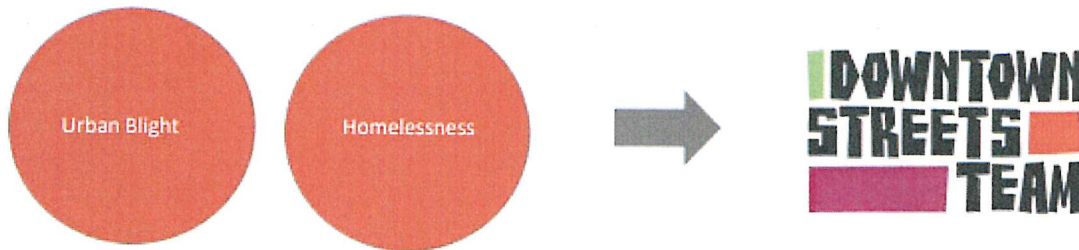
Eileen Richardson, Pres. and CEO, Downtown Streets Team, Homelessness. In San Rafael, Novato, Petaluma. Ending Homelessness While Improving Public Spaces. Unhoused persons in Nor CA. Prior CEO of Napster. Downtown Streets Team: League of CA Cities, CA State Assoc. of Counties (CSAC) and Institute for Local Government (ILG) recognized. San Francisco Civic Center Plaza. About \$83,000./year to keep a homeless person on the street. Started in 2005 Business Improvement District (BID) in Palo Alto. Business Polled of their Biggest Issues: 1. Panhandling; 2. Homelessness. Eileen was vol. and took on and thought just go back into high tech. It has been 16 years. Poll: What is worst part of being homeless (cold, standing in line. It was Way People Look Down on Me (Feel isolated, alone). Put bright yellow shirt, broom and clean up little area. Homelessness is an Experience not an Identity. Simple thing: Make Eye Contact and Say Hi. Downtown Streets Team: Restore Dignity, Hope, Purpose, Provide a path to recover from homelessness. Really impossibility of person to get up and get a job one day. DST Model: Bunch of people trying to get out of homelessness w/staffers. Ebullient feeling. Cheerful staffers relaying practical information. Homeless people just give up if made to stand in lines, looked down upon. Too big a divide: someone to stand up one day and say they get psych. Services. Stepping stone to employment. 10M+ gallons debris removed: 600k cig butts, 100k needles removed since 2016. People that haven't fallen into chronic homelessness just need a family. DST Model: 96% of Team Members stated an overall increase in their Self-Worth. Promotes positive contributions, changes perceptions, immediate results, cost effective solution, cleaner/safer streets. SF reputation: Lot of homeless people, drug use. Promote cleanliness and safety. ICMA connect: an online location to ask questions and seek solutions to problem in your community.

WORST PART ABOUT BEING HOMELESS?

- The cold
- Feeling safe at night/lack of sleep
- Services are lacking
- Don't know where I'll get my next meal
- Not sure if I'll have shelter tonight or don't like shelters
- Can't shower, have clean clothes or practice good hygiene
- Have to stand in a lot of lines
- Can't keep my things safe and have to carry them around
- No privacy
- Can't always use the bathroom when I need to
- Other (please explain): The way people look down at me



PALO ALTO: 2005



ICMA | coaching program

DST MODEL

- Unhoused and people at-risk of homelessness (Team Members) volunteer to beautify their community
- In return, they earn a non-cash basic needs stipend, case management, employment services and a support network

ICMA | coaching program

Q/A: Common Challenge/Myth in reworking public spaces. Daniel: Width of the Traffic Lanes (depends on the speed to design the street ie 50 mph v. slower speeds can go down to 9' such as in Parks w/posted speed). Also use other visual design clues for drivers to slow down. Fire Chief want street super wide. In Europe, designed many fire trucks to fit in the streets. Ped only streets numerous failures to kill downtown, many streets have failed for pedestrianization. MIG favors multi-use not ped only. Digital Art: Melchen/Times Square Augmented Reality make feel under water. Marlena Myles: Dakota language back. First Step Homelessness addressment? Eileen: A Place to meet and community clean up program. icma.org/coachingwebinars.

Q/A also posted in the Handouts tab. Addl. Questions to lphillips@icma.org.

#



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: _____

Other meeting attendees: _____

Meeting relevance to District: _____

Frequency of Meeting: _____

Estimated Costs of Travel (if applicable): _____

Date submitted to Board Secretary: _____

Board approval obtained on Date: _____

Board packets are uploaded 7 days before the Board Meeting. Please submit your request to the Board Secretary, no later than 2:00 p.m. on the second or fourth Tuesday of the month.

5/6/2021

BOARD AGENDA ITEM REQUESTS

Agenda Item 10B

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

Big sewage spill goes undetected for 2-week span

SAUSALITO

Agenda Item 11

Date May 6, 2021

By Lorenzo Morotti

lmorotti@marinij.com

Tree roots are being blamed for a 98,280-gallon sewage spill in Sausalito that went unnoticed for two weeks.

The overflow started on March 17 and went undetected because of heavy vegetation, according to the county. The spill was stopped on March 31.

The spill, between 71 and 67 Woodward Ave., was caused by roots blocking a private sewer lateral, said Gregory Pirie, a county environmental health official.

Pirie said water samples taken on Thursday near the spill location and at a catch basin off Easterby Street and Filbert Avenue showed high levels of E. coli, coliform bacteria and enterococcus bacteria.

Samples taken at the waterfront, however, are within state standards, Pirie said. He said there is no threat to people or pets.

“The highest levels of contamination are found within a catch basin that people and domestic animals do not have access to,” he said. “The contaminated riparian or intermittent stream area on Woodward is marked with signage and is on private property.”

“While the water samples from the bay are within the standards for recreational waters, we still have asked that the city of Sausalito post their signage, due to the upstream contamination,” he said. “The signage at the bay is in an industrialized area, with limited public access.”

Signs have been posted on Woodward Avenue and at 35 Liberty Ship Way

and 55 Liberty Ship Way.

The city did not respond to a request for comment.

On Monday, county crews worked with the city to capture contaminated water in the Easterby catch basin to prevent more wastewater flowing into the bay.

“The city of Sausalito has been very cooperative,” he said. “Existing signage was in place as the Army Corps of Engineers restricts shoreline access in that location.”

Environmentalists say the spill could have been avoided and is an unfortunate result of aging equipment.

“It’s a relatively large-scale spill, which is why it’s surprising it went on for days without being detected,” said Sejal Choksi-Chugh, executive director of San Francisco Baykeeper. “The problem is a lot of sewage infrastructure around the Bay Area is becoming really old and are on its last

“To spill almost 100,000 into creeks and potentially the bay is a really sad situation that could have been prevented.”

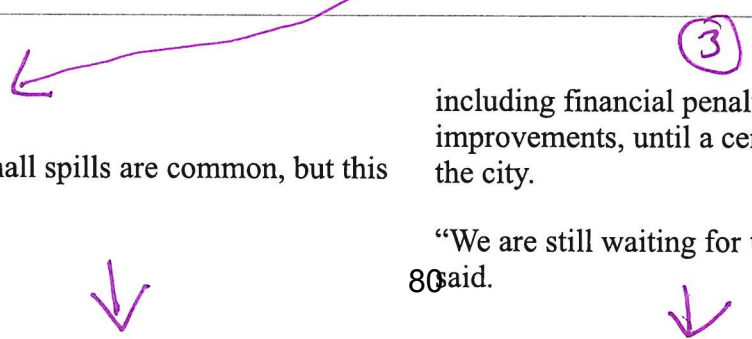
— Sejal Choksi-Chugh, San Francisco Baykeeper

legs.”

Choksi-Chugh said small spills are common, but this one is not small.

including financial penalties or required system improvements, until a certified report is completed by the city.

“We are still waiting for the city to send us that,” he said.



2

“We experience a lot sewage spills in the Bay Area, especially when it’s raining,” Choksi-Chugh said. “But to spill almost 100,000 into creeks and potentially the bay is a really sad situation that could have been prevented.”

Bill Johnson, a regulator at the California Regional Water Quality Control Board, said the agency was notified about the spill, but the initial uncertified reports were for 1,000 gallons.

“We were aware of the incident, but we were not aware of the magnitude,” Johnson said. “Earlier today we went into the system we saw a draft report that said the spill is closer to 100,000 gallons.”

He said the state board will not comment on possible enforcement measures,



4

He said it is unlikely there will be any ecological impacts to the bay because the spill was spread out over several days instead of all at once.

Johnson said the last sewage spill in the city was in 2019. He said about 50,000 gallons spilled because of a storm that dumped a lot of rain over a short time.

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Limits on water use approved for Marin

MANDATORY RULES

Agencies OK restrictions amid drought conditions

By Will Houston

whouston@marinij.com

Marin's two major water suppliers have approved mandatory use restrictions, becoming the first large utilities in the Bay Area to do so in response to historically low rainfall.

The governing boards of the Marin Municipal Water District and the North Marin Water District both adopted the drought restrictions on Tuesday evening.

The rules came a day before Gov. Gavin Newsom directed state agencies to begin bolstering drought responses. He also declared a drought emergency for the Russian River watershed in Sonoma and Mendocino counties.

①
The Russian River supplies 75% of the North Marin Water District's supply and 25% of the Marin Municipal Water District's supply.

"California is facing the familiar reality of drought conditions, and we know the importance of acting early to anticipate and mitigate the most severe impacts where possible," Newsom said at a news conference in Mendocino County on Wednesday.

The Marin Municipal Water District rules ban a variety of activities, including washing vehicles at home, washing sidewalks and driveways, power washing, watering public medians and refilling decorative fountains. The district board also considered limiting all outdoor irrigation to one day per week, but asked staff to bring back the proposal in two weeks based on public feedback.

This is the first time since 1988 that the district implemented mandated water restrictions. The rules take effect immediately, but enforcement won't begin until May 1.

②
Violators will be given a warning at first, a \$25 fine for a second violation and then a \$250 fine for any subsequent rulebreaking. District staff say they will focus on education before having to consider other enforcement methods such as patrols.

Residents can report water waste or violations by calling 415-945-1523 or submitting a complaint online at marinwater.org/forms/water-waste-report.

The district will consider requests for alternative conservation rules for ratepayers and businesses who might experience hardships, health and safety issues or other emergencies from the mandate.

Customers raised concerns that the one-day watering limit will lead people to drench their lawns. Landscaping-related business owners were concerned about the financial impacts to their businesses.

⑤
Outdoor watering with sprinklers will be limited to three days per week beginning July 1 so long as customers reduce their overall water use by 20% compared to the same billing period in 2020. Homes with odd-numbered addresses can water on Monday, Wednesday and Friday, and homes with even-numbered addresses can water on Tuesday, Thursday and Saturday.

Customers who continue to use less than 300 gallons per day can water three times per week but don't have to meet the 20% conservation target. Customers can still water their landscapes without restrictions if they use a handheld hose with a shutoff nozzle, a container such as a watering can and a drip irrigation system.

Other banned activities include:

- refilling pools

3

Other ratepayers called on the district to ban new water connections and to reduce water releases for threatened and endangered fish in Lagunitas Creek. “As a practical matter, the drought cannot be taken seriously until the steps are taken seriously,” Larkspur resident James Holmes told the board. “Your customers should not be stuck with dead plants and dirty toilets when developers get a free ride and fish swim freely.”

The district intends to collectively reduce summer water use by 40%, or by about 7,300 acre-feet, from May to October. This target caused confusion among ratepayers who thought they would have to reduce their individual water use by 40% even if they were already using small amounts of water.

The intent is to keep average water use per customer below 60 gallons per day to achieve that 40% reduction, according to Ben Horenstein, the district’s general manager.

The district, which serves 191,000 residents in central and southern Marin, approved the rules in response to the second-lowest rainfall amount in 143 years of records this season. The district has received about 20 inches of rain, less than the notorious 1976-77 drought and only slightly more than the record low of 18 inches in 1924.

The district hopes to have 30,000 acre-feet of water supply by December in its seven reservoirs in the Mount Tamalpais watershed. Any less than that would trigger a mandatory 50% reduction in use. The 30,000 acre-feet figure equates to about a third of the district’s storage capacity.

The water supply as of Tuesday was about 41,400 acre-feet, well below the average 72,800 acre-feet for this time of year.

Horenstein said staff are already exploring backup plans should the drought continue into next winter. The options include temporary desalination and water transfers from the East Bay Municipal Utility District or other utilities.

“Both of these are certainly complex projects,” Horenstein said. In addition, the board delayed a decision on whether to ban pool refilling after several residents raised concerns about health hazards and costly mechanical failures that could result. Board member Larry Bragman suggested the district explore mandating pool coverings.

6

• washing vehicles at home except for quick rinses using a bucket or hose with a shutoff nozzle

• using water for dust control

• watering golf courses, except for tees and greens. Course owners can alternatively reduce overall water use by 25% compared to 2020.

• no new or enlarged water connections after July 1, unless approved before then.

Violators will be given a verbal notice and then a written notice for a subsequent offenses. If the issue is still not addressed, the district can charge an initial fine of \$250 and then impose a \$500 fine and cut off service. The district has never fined anyone for violating similar mandates in the past, according to staff.

“If there is someone found in violation we really try to work with those customers to get the situation resolved,” said district water conservation coordinator Ryan Grisso.

The rules also include a drought surcharge of \$1 for every 1,000 gallons used.

The district mandated water restrictions in 2007, 2009, 2014 and 2015. They ranged from 15% to 30%.

The district recorded 8 inches of rain this season, its lowest dating back to 1916. The district’s main reservoir at Stafford Lake is at 52%, but only because the district has been running Russian River water into it for several weeks. Without that, the reservoir would be below 30% capacity.

No members of the public commented on the regulations at the meeting.



A bridge is revealed by low water levels at Nicasio Reservoir on March 19. The Marin Municipal Water

4

The district also delayed a rule requiring golf courses to limit irrigation to greens and tees at the request of board member Jack Gibson. He said there might be alternative ways for golf courses to achieve the same conservation levels without limiting watering to just one day, a point also raised by ratepayers about their own landscaping.

The board delayed the golf watering restriction to take effect on May 20.

Novato rules

The North Marin Water District board approved a hybrid plan calling on Novato customers to voluntarily conserve by 20% from May 1 through June 30 and then mandating 20% conservation from July 1 to Oct. 31. The target percentages are based on collective water use of all 60,000 Novato customers.

7

District and the North Marin Water District both adopted drought restrictions on Tuesday.

ALAN DEP — MARIN INDEPENDENT JOURNAL

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Teresa Lerch

From: Mark Millan <millan@datainstincts.com>
Sent: Tuesday, April 27, 2021 1:42 PM
To: Undisclosed Recipients
Subject: The Future of Water in the American Southwest - Counter Punch 4/27/21

The Future of Water in the American Southwest

Frederick Clayton, Counter Punch 4/27/21

No country is immune from water scarcity issues—not even the world’s wealthiest country, the United States.

The Southwestern states, in particular, have faced frequent and ongoing droughts over the past two decades, and traditional water supplies are failing. As groundwater supplies in the region have depleted substantially, rainfall has decreased and the costs of importing water have risen substantially.

The region looks to the Colorado River as its plumbing system, which currently provides drinking water to 1 in 10 Americans—all while irrigating nearly 5.5 million acres of land. But it’s also being stretched to its limits: Population growth and expansive development are increasing agricultural demands. Meanwhile, the pressure to ensure that there is sufficient water left in the environment to support ecosystems has accelerated. According to a study by the U.S. Department of the Interior Bureau of Reclamation, the demands on the Colorado River are expected to exceed supply by 2040.

On top of this, each state has vastly different needs. For example, Nevada’s needs are largely urban, but Arizona and California require water for huge agricultural and urban sectors. Each year, states argue over who has the superior right to water supplies. And once they have their allocation, districts frequently end up in litigation over their allotment. There is always a shortage, raising questions over who is responsible and who must mitigate for it.

Of course, these variables can change year after year, and all planning is dictated by a largely unpredictable snowpack and, therefore, an increasingly erratic river flow. While demand is increasing, climate change has damaged supply—and the impact is twofold, as less water comes down the Colorado River and people use more water due to increased temperatures.

Simply put, there is only so much water.

“When you can’t make the pie bigger and you’re fighting over a finite supply, it’s a misery index, just an allocation pain for all parties,” says Brad Herrema, a lawyer who specializes in water law and natural resources.

“But if you can make the pie bigger, there’s less fighting.”

Turning Wastewater Into a Resource

Our existing water supplies must go further, and the technology exists to make this happen—by turning wastewater into drinking water. This is not a new science, but the practice has evolved significantly in the past 50 years.

In the 1960s, water availability became problematic in rapidly growing areas in the U.S., and water managers began to consider using wastewater to augment supplies. A number of water reuse projects were built in the following decades in California, Virginia, Texas and Georgia, but larger developments in the 1990s were met with opposition. “Toilet to tap” narratives in the media fed misperceptions regarding the treatment process, which helped to dismantle public support

for these projects. What “toilet to tap” now misses is membrane filtration, membrane desalination, ozone and advanced oxidation, to name but a few treatment options that make the purified water entirely safe to drink.

But advances in these very technologies associated with water reuse helped boost confidence in and acceptance of the practice among water professionals in the early 2000s. Now, water reuse is entering the mainstream.

Almost half of all the potable reuse projects built in California, since the first in 1962, have been installed in the past 10 years, with several more on the horizon for the early 2020s. California—with more potable reuse projects than any other state—used around 1.5 million acre-feet per year (AFY) of reused water in 2020, with one acre-foot equivalent to about 326,000 gallons and enough to cover a football field. The state plans to increase this to 2.5 million AFY by 2030, almost doubling the number, especially once planned potable reuse projects are installed.

And according to a document by the Environmental Protection Agency and CDM Smith Inc., potable reuse also makes up “a significant portion” of the nation’s water supply once de facto reuse is factored in.

What’s clear is that some major U.S. cities are already delivering recycled wastewater to the consumer on a massive scale and making the pie larger.

How a city can recycle wastewater depends largely on the geography of the area, financial resources—and, perhaps most importantly, the attitudes of the public.

Las Vegas

Las Vegas recycles nearly all of its water used indoors, giving it a virtually inexhaustible supply of water for domestic consumption. The city benefits from its unique geography. Nearly 90 percent of southern Nevada’s water is taken from Lake Mead, which lies on the Colorado River. It is then treated and run through the city’s system. After it’s flushed or drained, the water makes its way to a wastewater treatment plant before it’s discharged into the Las Vegas Wash. From there it makes its way to Lake Mead where it is either drawn back out or stays in the river, ensuring there’s enough water for cities downstream of Vegas.

One key element that makes Vegas’s reuse system so effective is the Wash: a 12-mile-long channel that acts “as the ‘kidneys’ of the environment, cleaning the water that runs through... [it by] filtering out [any] harmful residues” on its way back to Lake Mead. Thanks to the Wash, when the water is withdrawn again, it does not need to go through a costly process of advanced treatment and, instead, undergoes just basic drinking water treatment.

Another key factor in Vegas’s success is that for every gallon of water Las Vegas puts into Lake Mead, it can take a gallon back out—meaning the city is essentially recycling its indoor water in a closed loop. This is known as de facto water reuse.

Nevada is allocated 300,000 AFY of water from the Colorado River each year. Bronson Mack, who oversees water resources and operations at Southern Nevada Water Authority (SNWA), says that in 2019, the city actually diverted 490,000 AFY of water from the Colorado River but only consumed 234,000 AFY. About 256,000 AFY was returned to the lake.

“Our return flow credits system is unique,” says Colby Pellegrino, director of the water resources department for SNWA. “Once we return the water to Lake Mead, we’re not charged for that water. We’re only charged for the total we depleted.”

Mack adds that local water utilities pay \$313 for treatment and delivery of 1 acre-foot of water, and pass that cost on to the consumer. If Vegas could not return such a large proportion of its water, that cost would rise dramatically.

De facto reuse is also vital for a city that can't afford to gamble on the weather—Las Vegas is the driest city in the U.S. When the Colorado River ran at 40 percent of its usual capacity in 2002, the city was struck by drought, but its citizens still had unlimited access to indoor water.

“Vegas couldn't exist without [the] return flow credits approach,” says Daniel Gerrity, an assistant professor of environmental engineering at the University of Nevada, Las Vegas. “Without that, we'd have already maxed out.”

This means the city's major conservation efforts go into limiting outdoor use. And so, contrary to expectations, it is not the casinos that are the problem—but the local residents, who irrigate their gardens and wash their cars. After all, water lost to evaporation is water lost forever.

However, not every city has a Lake Mead or a Wash. For places without Vegas's luck, there are other ways to do water reuse.

Orange County, California

Orange County Water District (OCWD) is a world leader in water reuse. Since 2008, it has provided drinking water to 2.5 million people—in a region with no more than 15 inches of annual rainfall—through its Groundwater Replenishment System (GWRS) project. This water would otherwise be discharged into the Pacific Ocean. By keeping it in the system, there is less reliance on the Colorado River, easing the strain on its supplies.

The city utilizes a process called indirect potable reuse (IPR). In the absence of an environmental filtration process like the Las Vegas Wash, Orange County's wastewater has to undergo advanced treatment before it is pumped to a groundwater basin. From there, it is pumped to the consumer via a standard drinking water treatment train making it safe to consume and completing the cycle. The process not only turns wastewater back into a resource, but also saves massively on the cost of pumping Colorado River water from hundreds of miles away.

GWRS, which is a joint project of OCWD and the Orange County Sanitation District (OCSD), currently supplies north and central Orange County with 77 percent of its water supply, and it is expanding its wastewater treatment capacity from 100 to 130 million gallons per day by 2023. OCWD's executive director of engineering and water resources, John Kennedy, says the expansion will save providers in Orange County over \$6 million per year as there will be more water available to pump from the basin. Currently, he says, the other 23 percent of the water requirement of Orange County must be bought at approximately three times the price of reused water from another regional wholesaler—the Metropolitan Water District of Southern California—that operates the Colorado River Aqueduct, which is a 242-mile water conveyance. And so, not only does expanding the water reuse projects make the pie bigger, but there's also an economic incentive attached to it.

“Orange County is the benchmark [for] water reuse system,” says Gerrity.

Water managers from around the world visit OCWD to learn how they've managed such success.

Like so many regions innovating in water reuse, drought forced their hand. In 1975, “[a]s imported water supplies became less available, another source of water was needed to fight seawater intrusion. In April 1975, OCWD unveiled... [a facility that] took treated wastewater from the... OCSD, blended it with deep well water and injected it into... [a basin]. In 1977, [OCWD became]... the first in the world to use reverse osmosis to purify wastewater to drinking water standards.”

The project was expanded in line with the demand in the '90s, and the GWRS, which has been operational since 2008, is now the world's largest advanced water purification system for potable use.

And through it all, OCWD managed to swerve the “toilet to tap” attacks that had ruined public support for such projects in other areas of California.

How?

“People expect to find out that our success is grounded in some secret technology, but they find out it’s all about education, education, education,” says Rob Thompson, the director of engineering at OCSD, which treats the water before sending it to the basin managed by OCWD. “Bringing the public on board with drinking [recycled] wastewater takes a lot of outreach. Getting over the ‘yuck factor’ is everything. We had to speak with NGOs, governors, the authorities, politicians—you name it, we spoke to them. Once you have enough people on board, everyone starts to think it must be okay.”

“People have high expectations about the quality of their water and have a lot of questions,” adds Dr. Megan Plumlee, who heads OCWD’s research and development department. “We explain to the public what we’re doing and how it’ll benefit the district, retailers and community.”

San Diego, currently embarking on a huge potable reuse project, followed OCWD’s lead when developing their project. Indeed, sometimes it takes a leader in the field for a new process to take hold, someone to show the way and prove something can be done safely, on a large scale.

“We weren’t the first to try it, but we were the first to succeed on such a massive scale. That’s because we were the first to really embrace education. Now others are doing the same,” says Thompson.

Now, 14 states have developed regulations that allow for IPR, with several more IPR projects on the horizon that will help bolster water supplies—all without putting additional pressure on the Colorado River.

Another method of water reuse, which is more efficient, is yet to take hold in the U.S.—though it may be about to find its leader.

San Diego

Direct potable reuse (DPR) was labeled the final frontier of water reuse by G. Tracy Mehan, the executive director for government affairs at the American Water Works Association (AWWA), in an essay written for *A Better Planet: 40 Big Ideas for a Sustainable Future*. The process does away with an environmental buffer and pumps wastewater directly through an advanced treatment train before it is purified and put straight back into the system in a matter of hours.

Given this reality, DPR can deliver water more efficiently and cost-effectively by using existing infrastructure and without needing to build expensive and energy-intensive pipelines to a reservoir or groundwater basin. DPR can also allow for more water to be recycled than IPR as there are no limitations on the reservoir or groundwater basin.

Additionally, DPR avoids regulations on putting water back into the environment by eliminating the buffer. And finally, DPR can be more reliable and efficient: Jeff Mosher, vice president and principal technologist at Carollo Engineers, a leading firm in engineering water reuse systems, explains that DPR can turn wastewater into drinking water in a matter of hours, faster than IPR or any other method of reuse.

Only two facilities in the U.S. are currently equipped to operate DPR—both are in Texas. Big Spring in West Texas identified DPR as the most feasible way to address an urgent need to diversify the city’s water portfolio and increase its supply reliability for when rains failed to fill the city’s reservoirs—the project now serves around 135,000 people. Wichita Falls in northern Texas, serving 150,000 people, followed Big Spring’s example. Anticipating a water crisis with the city reservoirs at less than 20 percent capacity in 2012, and lacking a groundwater backup supply, Wichita Falls determined DPR was a viable means of urgently meeting potable water demands. The two systems can supply 2 million and 5 million gallons per day, respectively.

Both facilities have been successful and without incident, yet the catalyst for both was an emergency. Such was the water crisis both cities were facing, that Texas had to use emergency water regulations in order to build the facilities

without formal DPR regulations. DPR is yet to become a mainstream and a trusted water supply system, and it still remains unused outside times of crisis and for larger communities.

Only Arizona has draft regulations that allow for DPR (while formal regulations are drawn); California, Colorado and Florida are actively pursuing regulations. This is mainly due to a lack of public acceptance. The speed at which DPR recycles wastewater makes it particularly vulnerable to “toilet to tap” attacks, and this has consumers concerned, who worry over the small room for error and the “yuck factor.”

An attempt to introduce potable reuse in San Diego in the 1990s failed after fears of “drinking sewage” diminished trust in the project and fostered uncertainty about the safety of the water.

And in 2005, just 28 percent of people randomly surveyed in San Diego strongly favored or somewhat favored using advanced treated recycled water to supplement the drinking water supply.

But that number is now 79 percent.

San Diego has changed its mind and now it may one day do for DPR what OCWD has done for IPR and pave the way for DPR use on a wider scale.

With lessons learned from OCWD, outreach helped bring the community on board in San Diego. “We had to educate the community on the concept [of potable reuse],” Amy Dorman, a senior engineer on San Diego’s Pure Water program, says. “We ran focus groups with the community, made ourselves flexible moving forward and recognized the importance of listening to the community. In the ’90s, there was not the right amount of education. Now it’s comprehensive. We do tours, presentations, websites, mailers and [identify] all stakeholders—[ensuring] diligent and constant outreach.”

Dorman explains that 18,665 San Diegans have visited the demonstration facility, while the team at Pure Water has spoken to almost 30,000 children in schools. They explain that 50,000 lab tests have been carried out on the water supply, each meeting every regulatory standard and producing exceptional water quality—typical tap water is actually less highly treated than DPR tap water.

But the key statistic is that 85 percent of San Diego’s water is already imported from the Colorado River and Northern California Bay Delta. In fact, because the city is downstream, Dorman says that the water has already been recycled 49 times by other water districts before it reaches San Diego. She says this usually quells fears that drinking recycled water is unsanitary, since, as it turns out, residents have been doing it for years.

“What we know now is that it’s possible to convince people,” adds Mosher. “We have proven that every community you go into that has concerns, you can overcome.”

San Diego hopes that by 2035, a third of the city’s supply will come from locally supplied, recycled wastewater instead of importing the majority of its water supply.

For phase one, the Pure Water San Diego program—funded by the San Diego government—will use IPR to provide the city with 30 million gallons of water per day, utilizing the nearby Miramar Reservoir as an environmental buffer in a similar way to how Orange County uses its groundwater basin.

But phases two and three target an additional 53 million gallons of water per day. In the absence of a groundwater basin and large enough reservoirs, Pure Water San Diego plans to employ DPR to realize the project’s full scale.

Mosher says that cities with plans to do DPR one day don’t want the attention, to be the ones to take the dive into doing it on a large scale. But with projects on the horizon in San Diego, as well as El Paso, Texas, Mosher expects greater faith

in the process by the end of the decade, and a 2011 public opinion poll shows that citizens are 50 percent more likely to accept recycled water when they learn that other communities have done so already.

Without a leader in the field, there is hesitancy among cities interested in doing DPR, but Gerrity is positive about the impact San Diego can have countrywide.

“It’s a good platform to go forward,” he says. “We have more options for facing water scarcity, another tool in the toolbox to tap into. Conservation, potable reuse [and] innovative technologies all extend supply and give high-quality drinking water to the public.”

Mainstreaming Potable Reuse

While water reuse is breaking into the mainstream, there are still challenges going forward.

It is not simply a matter of copying Las Vegas, Orange County or San Diego. The geography and finances of a region often dictate a city’s water supply—and that has a huge impact on what kind of reuse that city can attempt. De facto reuse, as in Las Vegas, is incredibly site-specific and requires the geography of an area to substitute for advanced treatment, while the most successful IPR projects rely on large groundwater basins and nearby reservoirs.

Both types of potable reuse are also incredibly expensive, and while they may save money in the long term, they require a huge initial investment. The advanced water purification facility in Wichita Falls, for example, cost \$13 million. OCWD, serving 2.5 million people, will have spent upward of half a billion dollars once the final phase of their project is complete, almost doubling their initial outlay. Irrespective of the size of your service area, installing an advanced treatment facility is expensive.

There are ways to get around the financial obstacles, though. Districts not doing potable reuse may help fund water reuse projects in exchange for a greater share of the pie. Take Las Vegas, for example. It makes no sense for SNWA to build an advanced water purification facility—the city’s proximity to Lake Mead keeps pumping costs low, and the lake itself acts as a natural cleanser. However, SNWA is currently in discussions to potentially fund potable reuse projects in California in exchange for additional water from the Colorado River.

Gerrity says this could happen on a wider scale. “Anywhere with water scarcity, it’ll make sense for us to realize, by investing in water infrastructure, we can alleviate problems.”

And working out what works best for one community is half the battle. Because there is no one size fits all thanks to the geographical nuances that help potable reuse or de facto reuse work.

“You could take what Orange County does, and it’s going to work, but the question is whether that is the best approach for that location. So, the challenge is, now that we feel comfortable with one approach, can we do it a different way?” says Gerrity.

Mosher is trying to compile all the information on water reuse into an easy-to-read guidance document that cities considering the process can use to decide which approach may be best for them.

“It’s about getting to a point where communities who want to try DPR don’t feel overwhelmed,” says Mosher.

What’s clear is that the Colorado River can no longer be relied upon to provide such vast numbers of people with their water needs. If we are to continue asking so much of it, then we have to start easing those pressures. Water reuse is a future imperative if the driest parts of the world are to continue growing without destroying the environment that relies as much on water as we do.

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