

SACRAMENTO-YOLO  
MOSQUITO & VECTOR  
CONTROL DISTRICT

APRIL 20, 2020

BOARD OF TRUSTEES  
SPECIAL MEETING

BOARD PACKET

10:00 A.M.

8631 Bond Road  
Elk Grove, CA 95624

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**SACRAMENTO/YOLO MOSQUITO  
& VECTOR CONTROL DISTRICT  
BOARD OF TRUSTEES SPECIAL MEETING**

8631 Bond Road  
Elk Grove, CA 95624

**AGENDA  
April 20, 2020  
10:00 AM**

*In compliance with the Americans with Disability Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact the District office at (916) 685-1022 or (916) 685-5464 (fax). Requests must be made as early as possible, and at least one-full business day before the start of the meeting. Documents and materials relating to an open session agenda item that are provided to the SYMVCD Board less than 72 hours prior to a regular meeting will be available for public inspection and copying at 8631 Bond Road, Elk Grove, Ca 95624. The documents will also be available on the agency's website at [www.fightthebite.net](http://www.fightthebite.net).*

**CALL TO ORDER:**

- **Roll Call**
- **Pledge of Allegiance**

1. **Items for Approval by General Consent:**
  - a. **Minutes of the March 17<sup>th</sup> Board of Trustees Meeting**
  - b. **Expenditures for March 2020**
  
2. **Opportunity for Public Comment**

*This item is reserved for members of the public who wish to speak on items not on the agenda*
  
3. **Reports to the Board**
  - a. **Manager's Report**
  - b. **Reports from District Departments**
    - **Lab/Surveillance**
    - **Ecological Management**
    - **Biological Control**
    - **Larval and Adult Control**
    - **Public Outreach**
  
4. **District Projects and Collaborations for 2020 Season**

5. **Closed Session- Provide Instruction to Designated Labor Representatives (Gov. Code s. 54957.6-Labor Negotiations)**  
**Agency Designated Representatives : [Gary Goodman, Janna McLeod, Samer Elkashef, Chris Voight]**  
**Employee Organization: [Operating Engineers Local Union #3]**
6. **Board/Staff Reports and Requests**
7. **Adjournment**

# **Sacramento-Yolo Mosquito and Vector Control District**

## **April 20, 2020 Board Meeting**

### **1. Items for Approval by General Consent:**

- a. Minutes of the March 17, 2020 Board of Trustees Meeting;
- b. Expenditures for March 2020.

### **Recommendation:**

**Approve the Items by General Consent**

**MINUTES OF THE MARCH 17, 2020  
MEETING OF THE BOARD OF TRUSTEES OF THE  
SACRAMENTO-YOLO MOSQUITO & VECTOR CONTROL DISTRICT**

PLACE: 8631 Bond Road, Elk Grove, CA 95624

TIME: 10:00 a.m.

**TRUSTEES PRESENT:**

Jayna Karpinski-Costa	President	Citrus Heights
Craig Burnett	Vice President	Folsom
Gar House	Secretary	Winters
Christopher Barker		Davis
Raul DeAnda		West Sacramento
Sean Denny		Woodland
Bruce Eldridge		Yolo County
Lyndon Hawkins		Elk Grove
Gar House		Winters
Raymond LaTorre		Sacramento
Susan Maggy		Sacramento County
Robert McGarvey		Rancho Cordova
Marcia Mooney		Galt
Vacant		Isleton

**TRUSTEES ABSENT:**

**LEGAL COUNSEL:**

Jennifer Buckman

**STAFF PRESENT:**

Gary Goodman	Manager
Samer Elkashef	Assistant Manager
Janna McLeod	Administrative Manager
Steve Ramos	Program Coordinator
Marty Scholl	Ecological Management Supervisor
Tony Hedley	Fisheries Supervisor
Luz Robles	Public Information Officer

**CALL TO ORDER**

The meeting was called to order at 10:00 a.m. by President Jayna Karpinski-Costa.

**Roll Call**

All Trustees were present; therefore, there was a quorum present. Trustee McGarvey arrived at 10:06am. Trustees Burnett, DeAnda, Mooney, House, Eldridge, Denny and Barker all attended via teleconference. The City of Isleton appointment remains vacant. Legal Counsel Jennifer Buckman also attended the meeting via teleconference.

**Pledge of Allegiance**

*All phones and electronic devices are requested to be silenced during the meeting.*

## **1. ITEMS FOR APPROVAL BY GENERAL CONSENT**

Trustee LaTorre noted a correction to the Minutes. He was present at the February meeting, but, his name was not listed as a Trustee who was present. On a motion by Trustee Maggy seconded by Trustee LaTorre, the Board voted to approve General Consent Items a. through c, with the correction to the Minutes as noted. The vote was taken by roll call and the motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 0.

- a. Minutes of the February 18, 2020 Board of Trustees Meeting;
- b. Expenditures for February 2020;
- c. Board Consideration of Surplus District Property.

## **2. OPPORTUNITY FOR PUBLIC COMMENT**

*This item is reserved for members of the public who wish to speak on items not on the agenda.*

There were none.

## **3. REPORTS TO THE BOARD**

### **a. Manager's Report:**

MVCAC Legislative Day was held on March 4th, 2020. Sean Denny and the Manager made visits to our local offices. The MVCAC is very active in pursuing continued funding for the Gateway program along with funding to help support novel techniques in the fight to control aedes populations statewide. We also discussed the current state of mosquito control in California and potential expectations for the upcoming year. A copy of our legislative asks is included in the report. The AMCA annual conference in Portland was cancelled due to the growing concerns regarding COVID-19. It was a difficult decision for the AMCA Board to make, but the health and welfare of our membership during the time of uncertainty surrounding this new virus was the motivating factor. The District has been active in tracking the impact that COVID-19 would have on District operations. We have advised staff to follow all appropriate public health guidelines to help protect against transmission. We will continue to monitor the situation as things change and will follow the advice of those professionals that are responsible for the protection of public health (CDC, CDPH, and local Health Officers). We do not anticipate major interruptions to our operations, and will do our best to continue our work where possible. District staff is working on scheduling interviews to fill current seasonal vacancies within various departments. The seasonal staff will begin in April. The Vector Control Joint Powers Agency (VCJPA) workshop was held in Santa Cruz earlier this month. Janna McLeod attended on behalf of the District. Our VCJPA is in a good financial position overall and the District continues to have minimal claims. The AMCA Washington Conference will be held on May 11-13. Sean Denny and the Manager will represent the District.

### **b. Reports from Trustees Attending the MVCAC Annual Conference:**

Trustee Christopher Barker attended the MVCAC conference and reported on the presentations he attended. He was particularly interested in the talks and side conversations relating to Aedes mosquitoes and underground sources. Based on what was presented and what other Districts are seeing it has not been conclusively determined if Aedes are breeding or just resting in the water within underground sources. He found Debbie Dritz's talk on bottle bioassays and ULV treatment results and other discussions on resistance testing encouraging. Products used in combination with different synergists may help to reduce resistance issues previously seen in the field.

**c. Reports from Trustees Attending the MVCAC Legislative Day:**

Trustee Sean Denny attended the Legislative Day with Manager Goodman. They were able to meet with several officials or their staff. Trustee Denny thought several offices were going to be quick visits to drop off materials and they actually got to meet with the staff. These visits are vital to educating new staff and reminding other staff of what is important to us as well as informing them of any bills that are being supported by mosquito control. Personal visits are more effective with staff than simple mailers or emails.

**d. Reports from District Departments:** Written reports were provided in the Board packet from each department. Department supervisors gave an oral presentation and were available to answer any questions.

**Lab/Surveillance:** Laboratory Director, Marcia Reed provided a written report.

**Ecological Management:** Ecological Management Supervisor, Marty Scholl discussed department activities including Stormwater, Drainages and Planning Program, Unmanned Aerial Systems (UAS) Program, Wetland Program, and Pool Program. Staff submitted comments to City of West Sacramento and City of Folsom for maintenance projects in their areas. The City of Elk Grove shared ground survey markers with GIS for the District to use to verify the accuracy of our UAS imagery with good results. Staff presented to over 70 wetland managers on the use of UAS for mosquito and vector control over wetland habitats. Staff attended a Waters of the US (WOTUS) workshop with new definitions that will take effect next year. Ten swimming pools have been referred to the Ecological department with six enforcement letters going out to the owners of record.

**Biological Control:** Fisheries Supervisor, Tony Hedley reported on department activities including projects, facility maintenance, training, fish rearing, movement between ponds and regular tank cleaning activities. Technicians have completed most of the annual training and are now focusing on preparing for moving fish from predatory exclusion ponds to open grow out ponds once overnight temperatures reach a stable 60 degrees or more.

**Larval and Adult Control:** Program Coordinator, Steve Ramos discussed department activities. Technicians have been responding to service requests and performing the first round of inspections for known swimming pools and spas. Catch Basins are being inspected for larval density and treatments are being made as necessary. Crews have been finishing brush clearing projects and four field technicians were recently hired to fill two vacancies from retirements and two new staff to work on suburban control including service requests for *Aedes aegypti*.

**Public Outreach:** Public Information Officer, Luz Robles reported on department activities including the School Program, Advertising, Events, the Fight the Bite Contest, and, Repellent and Materials Distribution. Prior to schools being shut down due to COVID-19 staff and Red Shoe Productions were able to hold 5 of the 6 assemblies that had been planned for schools. Trustee House attended the assembly held in Winters and saw a lot of engagement from the kids who were in attendance. Planning with consultant Benjamin/Luken has begun and will kick off during Mosquito Awareness Week in April. Most events that were planned for April have been cancelled due to the pandemic and this along with school closures may affect the number of entries we may receive for the Fight the Bite Contest. Repellent requests are coming in from various community groups including the City of Galt for an event, and, Harm Reduction Services and Mercy Peddlers who both provide services to the homeless population.



**4. BOARD REVIEW AND CONSIDERATION OF AMCA ANNUAL CONFERENCE FEES**

Manager Goodman presented the item and was available to answer questions. AMCA is asking interested members to waive the refund process to help minimize the financial impacts to the association caused by the cancellation of the conference due to COVID-19. On a motion by Trustee Denny seconded by Trustee DeAnda, the Board voted to decline the refund of AMCA Annual Conference Fees totaling \$4,490. The vote was taken by roll call and the motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 0.

**5. CLOSED SESSION- PUBLIC EMPLOYMENT (Government Code § 54957) – FIELD TECHNICIAN**

At 11:00am President Karpinski-Costa adjourned the Regular Meeting to go into the Closed Session for Item 5. The Board returned to Open Session at 11:05 am. The Board reported that it voted to extend the medical leave of absence for Henry Estrada for another 60 days or to the May Board meeting, scheduled for May19, 2020. The vote was taken by roll call and the motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 0.

**6. BOARD/STAFF GENERAL DISCUSSION**

The planned visit by the Environmental Protection Agency (EPA) has been cancelled

Manager Goodman was invited to speak at the Arizona Mosquito Control meeting and that has been changed to a webinar due to COVID-19

The District has and may need to enact the Natural Disaster Leave Policy due to the COVID-19 situation if and/or when applicable

Form 700 is due by April 1<sup>st</sup>

The April Board meeting originally scheduled for April 21<sup>st</sup> may need to be moved to April 20<sup>th</sup> due to scheduling conflicts.

**7. ADJOURNMENT**

The meeting adjourned at 11:06 am.

\* \* \* \* \*

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the March 17, 2020 meeting.

\_\_\_\_\_  
Gary Goodman, Manager

Approved as written and/or corrected by the Board of Trustees at the April 21, 2020 meeting.

\_\_\_\_\_  
Gar House, Board Secretary

**March 2020 Check Register**  
**Activity From: 3/1/2020 to 3/31/2020**  
**Sacramento Yolo MVCD (SYC)**

Check Number	Check Date	Vendor Number	Name	Check
<b>Bank Code:</b> U US Bank				
053619	3/9/2020	0000504	US Bank	40,956.19
053620	3/11/2020	0000006	Adapco Inc	569.92
053621	3/11/2020	0000018	ANDKO Building Maintenance Inc.	5,497.94
053622	3/11/2020	0000034	AutoZone Inc	210.70
053623	3/11/2020	0000116	City of Woodland	328.00
053624	3/11/2020	0000126	Complete Welders Supply Inc	1,167.23
053625	3/11/2020	0000128	Consolidated Communications	769.75
053626	3/11/2020	0000168	Dignity Health Med Fdtn-Sacramento	556.00
053627	3/11/2020	0000169	Diversified Biotech Inc	1,235.56
053628	3/11/2020	0000186	Elk Grove Water District	543.89
053629	3/11/2020	0000200	Fastenal Company	467.72
053630	3/11/2020	0000223	Grainger	171.11
053631	3/11/2020	0000240	Hunt & Sons Inc	3,424.04
053632	3/11/2020	0000306	Maita Chevrolet	278.40
053633	3/11/2020	0000356	OReilly Automotive Stores Inc	321.85
053634	3/11/2020	0000367	PG & E	2,272.57
053635	3/11/2020	0000370	Pitney Bowes	301.66
053636	3/11/2020	0000388	Republic Services #922	91.79
053637	3/11/2020	0000451	SMUD	3,620.37
053638	3/11/2020	0000497	Magnegas Welding Supply - West	84.75
053639	3/11/2020	0000505	US Bank Equipment Finance	102.36
053640	3/11/2020	0000518	Vector Disease Control International	150,000.00
053641	3/11/2020	0000522	Verizon Wireless	2,567.19
053642	3/11/2020	0000529	Waste Management	164.96
053643	3/11/2020	0000537	Winters Youth Day Committee	50.00
053644	3/11/2020	0000937	Staples Business Advantage	464.55
053645	3/11/2020	0001011	Buckmaster Office Solutions	114.08
053646	3/11/2020	0001012	Riebes Auto Parts	553.65
053647	3/11/2020	0001019	Cintas Corporation	1,867.57
053648	3/11/2020	0001233	Grow West	129.76
053649	3/11/2020	0001234	T-Mobile	587.10
053650	3/11/2020	0001270	Rubicon Global, LLC	192.56
053651	3/11/2020	0001471	Walker's Office Supply	110.43
053652	3/11/2020	0001488	Red Shoe Productions	8,300.00
053653	3/11/2020	0001498	Ingalls Construction	2,018.84
053654	3/18/2020	0000267	Kaiser Foundation Health Plan	26,913.32
053655	3/18/2020	0000267	Kaiser Foundation Health Plan	3,844.75
053656	3/18/2020	0000267	Kaiser Foundation Health Plan	19,298.86
053657	3/18/2020	0000357	P & A Administrative Services Inc	99.00
053658	3/18/2020	0000373	Preferred Benefit Ins Administrators	8,838.60
053659	3/18/2020	0000531	Western Health Advantage	5,184.47
053660	3/18/2020	0000531	Western Health Advantage	3,985.81
053661	3/18/2020	0000957	Sutter Health Plus	8,459.87
053662	3/23/2020	0000014	Alhambra & Sierra Springs	54.00
053663	3/23/2020	0000015	All Star Glass	285.47
053664	3/23/2020	0000038	Bartkiewicz Kronick & Shanahan	1,073.92
053665	3/23/2020	0000117	City of Woodland	274.75

053666	3/23/2020	0000119	Clarke Mosquito Control Products Inc	264.01	
053667	3/23/2020	0000126	Complete Welders Supply Inc	794.63	
053668	3/23/2020	0000200	Fastenal Company	77.67	
053669	3/23/2020	0000240	Hunt & Sons Inc	3,075.81	
053670	3/23/2020	0000277	Kimball Midwest	369.50	
053671	3/23/2020	0000293	Life Technologies Corporation	9,044.42	
053672	3/23/2020	0000306	Maita Chevrolet	544.62	
053673	3/23/2020	0000367	PG & E	1,211.48	
053674	3/23/2020	0000461	Stericycle Inc	80.79	
053675	3/23/2020	0000462	Sterling May Co	390.42	
053676	3/23/2020	0000467	Home Depot Pro Institutional	934.54	
053677	3/23/2020	0000475	Target Specialty Products	6,220.97	
053678	3/23/2020	0000502	Univar Inc	38,965.31	
053679	3/23/2020	0000526	VWR International Inc	1,732.59	
053680	3/23/2020	0000534	Wiley Price & Radulovich	1,764.00	
053681	3/23/2020	0000958	GreatAmerica Financial Services	372.82	
053682	3/23/2020	0001270	Rubicon Global, LLC	200.26	
053683	3/23/2020	0000299	Luken Benjamin Associates	4,030.00	
053684	3/30/2020	0000043	Benefit Coordinators Corporation	3,297.97	
053685	3/30/2020	0000084	CA State Disbursement Unit	350.00	
053686	3/30/2020	0000339	Nationwide Retirement Solutions	1,550.00	
053687	3/30/2020	0000339	Nationwide Retirement Solutions	4,150.00	
053688	3/30/2020	0001035	Operating Engineers Local Union No. 3	1,235.00	
053689	3/30/2020	0000504	US Bank	22,904.53	
W00130	3/30/2020	0000086	CalPERS 457 Plan	20,741.02	
W00131	3/30/2020	0000087	CalPERS Financial Reporting & Accounting	78,459.94	
W00132	3/30/2020	0000561	United States Treasury	56,468.89	
W00133	3/30/2020	0000176	EDD	15,369.40	
				<b>Bank U Total:</b>	<u>583,005.90</u>
				<b>Report Total:</b>	<u><u>583,005.90</u></u>

I hereby authorize the use of my signature plate on  
the above-listed warrants, 053619-053689, and EFTs W00130-W00133

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Signature

Date

Jayna Karpinski-Costa, 2020 President of the Board

S.Y.M.V.C.D  
 FY 2019-2020 Budget Update  
 March 2020

	Account #	Account Description	9 Months Ended March 31, 2020	FY 19-20 Annual Budget	Unused
T	4000	REVENUE	\$ -	\$ -	\$ -
T	5000	SALARIES/BENEFITS/WC	\$ 6,993,947.88	\$ 8,579,233.79	\$ 1,585,285.91
T	5200	OPERATIONAL	\$ 4,165,837.19	\$ 6,190,059.00	\$ 2,024,221.81
T	5210	LIABILITY INSURANCE	\$ 145,617.00	\$ 150,854.00	\$ 5,237.00
T	5250	AUDITING/FISCAL	\$ 16,000.00	\$ 17,750.00	\$ 1,750.00
T	5270	COMMUNICATIONS	\$ 52,854.66	\$ 79,500.00	\$ 26,645.34
T	5310	PUBLIC INFORMATION	\$ 227,238.30	\$ 465,500.00	\$ 238,261.70
T	5340	STRUCTURE & GROUNDS	\$ 90,545.65	\$ 65,000.00	\$ (25,545.65)
T	5370	MEMBER/TRAINING	\$ 74,509.31	\$ 113,000.00	\$ 38,490.69
T	5390	DISTRICT OFFICE EXPENSES	\$ 12,859.31	\$ 15,000.00	\$ 2,140.69
T	5430	PROFESSIONAL SERVICES	\$ 112,829.91	\$ 198,250.00	\$ 85,420.09
T	5440	MATERIALS & SUPPLIES	\$ 8,277.95	\$ 10,000.00	\$ 1,722.05
T	5450	RENTS & LEASES	\$ 7,739.09	\$ 11,550.00	\$ 3,810.91
T	5470	SAFETY PROGRAM	\$ 1,310.00	\$ 5,000.00	\$ 3,690.00
T	5480	UTILITIES	\$ 74,336.90	\$ 110,000.00	\$ 35,663.10
T	6120	AIRCRAFT SERVICES	\$ 634,136.57	\$ 945,500.00	\$ 311,363.43
T	6140	ECOLOGICAL MANAGEMENT	\$ 4,485.69	\$ 15,200.00	\$ 10,714.31
T	6160	MICROBIAL	\$ 932,560.12	\$ 1,500,000.00	\$ 567,439.88
T	6170	BIORATIONALS	\$ 709,039.68	\$ 950,000.00	\$ 240,960.32
T	6180	INSECTICIDES	\$ 695,459.64	\$ 1,000,000.00	\$ 304,540.36
T	6220	FISHERIES	\$ 12,930.37	\$ 27,000.00	\$ 14,069.63
T	6280	GEOGRAPHIC INFO SYSTEMS	\$ 4,073.49	\$ 7,125.00	\$ 3,051.51
T	6320	INFORMATION TECHNOLOGY	\$ 31,855.01	\$ 48,200.00	\$ 16,344.99
T	6350	CONTROL OPERATIONS	\$ 19,266.42	\$ 32,430.00	\$ 13,163.58
T	6370	SHOP	\$ 61,897.14	\$ 88,000.00	\$ 26,102.86
T	6420	LAB SERVICES	\$ 143,565.00	\$ 163,200.00	\$ 19,635.00
T	6450	GAS & PETROLEUM	\$ 92,449.98	\$ 172,000.00	\$ 79,550.02
T	7000	CAPITAL ACCOUNTS	\$ 131,313.01	\$ 573,049.00	\$ 441,735.99
T	7011/1510	Capital Outlay/Construction In Progress	\$ 108,810.82	\$ 136,049.00	\$ 27,238.18
T	7030	Research Fund	\$ -	\$ 50,000.00	\$ 50,000.00
T	7035	Building Improvement	\$ 22,502.19	\$ 387,000.00	\$ 364,497.81
T		TOTALS			
T		Salaries/Benefits	\$ 6,993,947.88	\$ 8,579,233.79	\$ 1,585,285.91
T		Operational	\$ 4,165,837.19	\$ 6,190,059.00	\$ 2,024,221.81
T		Capital Accounts	\$ 131,313.01	\$ 573,049.00	\$ 441,735.99
T		Total Budget	\$ 11,291,098.08	\$ 15,342,341.79	\$ 4,051,243.71

**SYC Balance Sheet**  
**As of 3/31/2020**

**Sacramento Yolo MVCD (SYC)**

**Assets**

**Current Assets**

Cash in Bank-FSA	51,267.01	
Cash with LAIF	8,703,929.20	
Petty Cash	600.00	
US Bank	161,684.04	
Accounts Receivable	(13,717.46)	
Assigned - Cash With VCJPA	1,520,371.00	
Inventory	933,041.51	
<b>Total Current Assets:</b>		<b>11,357,175.30</b>

**Fixed Assets**

LAND, BLDG., IMPROVEMENT	1,175,092.88	
EQUIPMENT	4,280,678.04	
BOND ROAD	5,061,395.00	
WOODLAND FACILITY	708,574.00	
ACCUMULATED DEPRECIATION	(6,650,388.20)	
<b>Total Fixed Assets:</b>		<b>4,575,351.72</b>

**Other Assets**

Deferred Outflows of Resources	7,419,528.00	
Deferred Outflows of Resources-GASB 75	427,109.00	
<b>Total Other Assets:</b>		<b>7,846,637.00</b>
<b>Total Assets:</b>		<b>23,779,164.02</b>

**Liabilities**

**Current Liabilities**

Accounts Payable	113,996.71	
Payroll Taxes Payable	(0.30)	
Voluntary TL & AD&D	(643.93)	
Voluntary STD	(459.92)	
FSA Deductions	102,620.08	
P.E.R.S. Deductions	(1.04)	
Safety Program	(1,530.00)	
Accumulated Vacation	417,766.45	
<b>Total Current Liabilities:</b>		<b>631,748.05</b>

**Long-Term Liabilities**

Net Pension Liability	13,470,191.00	
Net OPEB Liability	1,151,973.00	
Deferred Inflow of Resources	1,197,703.00	
Deferred Inflow of Resources-GASB 75	101,685.00	
<b>Total Long-Term Liabilities:</b>		<b>15,921,552.00</b>
<b>Total Liabilities:</b>		<b>16,553,300.05</b>

**Equity**

INVESTMENT IN FIX ASSETS	4,575,351.96	
RESERVED CASH ( INS.)	1,520,371.00	
Committed-Capital Outlay	700,000.00	
Unassigned - Dry Financing	6,000,000.00	
GENERAL FUND	(5,718,204.08)	
Retained Earnings-Current Year	(1,851,654.91)	
Committed - Vector/Disease Response	2,000,000.00	
<b>Total Equity:</b>		<b>7,225,863.97</b>
<b>Total Liabilities &amp; Equity:</b>		<b>23,779,164.02</b>

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# **Sacramento-Yolo Mosquito and Vector Control District**

## **April 20, 2020 Board Meeting**

### **3. Reports to the Board**

#### **a. Manager's Report**

#### **b. Reports from District Departments**

- **Lab/Surveillance (Marcia Reed)**
- **Ecological Management (Marty Scholl)**
- **Biological Control (Tony Hedley)**
- **Larval and Adult Control (Steve Ramos)**
- **Public Outreach (Luz Maria Robles)**

#### **a. Manager's Report**

The Coronavirus has definitely disrupted operations to an extent. Staff has done an amazing job of adapting and innovating to ensure that our work is being done. We have increased our cleaning regimen of high touch locations, instituted staggered shifts to minimize contact, encouraged social distancing for those in the office together, promoted telework when feasible and have made masks for staff to use when needed.

The season is picking up as our surveillance is showing an increase of mosquitoes in the field with the warm weather. Control crews are seeing more activity as the recent rains have filled up some of our spring sources. Our seasonal employees are beginning to come on board and we are implementing remote training for them.

Mosquito and West Nile Virus Awareness week is April 19-25. Normally, we have a number of events planned however due to the pandemic we have to adjust as no public gatherings or events are planned. We will be issuing press releases to educate the public on how we protect public health as well as distributing repellent to the homeless shelters.

The District is working on compiling the annual budget for FY 20-21. A draft version will be presented at the May meeting.

The AMCA Legislative Day was cancelled however we are hoping for a small contingent to be able to discuss our issues with legislators when travel is restored.

**b. District Departments**

- **Lab/Surveillance (Marcia Reed)**
- **Ecological Management (Marty Scholl)**
- **Biological Control (Tony Hedley)**
- **Larval and Adult Control (Steve Ramos)**
- **Public Outreach (Luz Maria Robles)**



# LABORATORY

## Monthly Report for April 2020 Board Meeting

### Insectary:

Colonies maintained: *Culex tarsalis* Kern National Wildlife (susceptible)  
*Culex tarsalis* Conaway Ranch – wild (resistant)  
*Culex quinquefasciatus* Cq1 (susceptible)  
*Culex pipiens* Woodland (resistant)  
*Culex pipiens* f. *molestus* - wild - Sacramento County  
*Aedes sierrensis* wild - Marin - Sonoma County (in egg form)

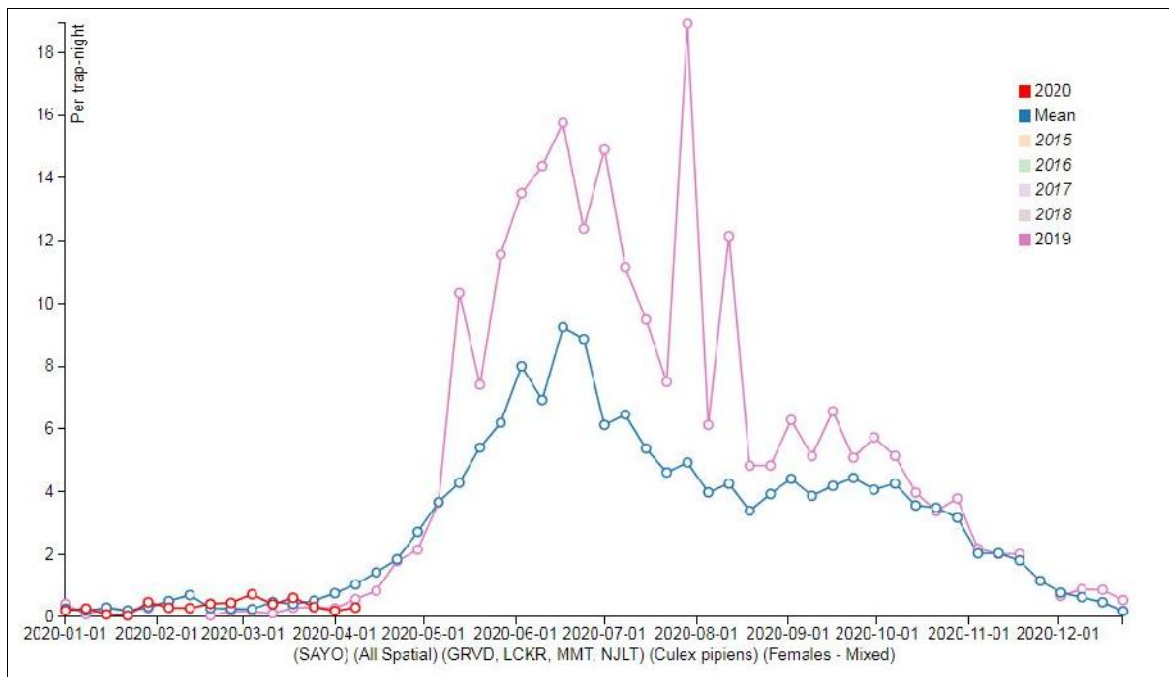
### Lab Modification Update:

We plan to begin testing by the end of this month in the new PCR lab here at the District.

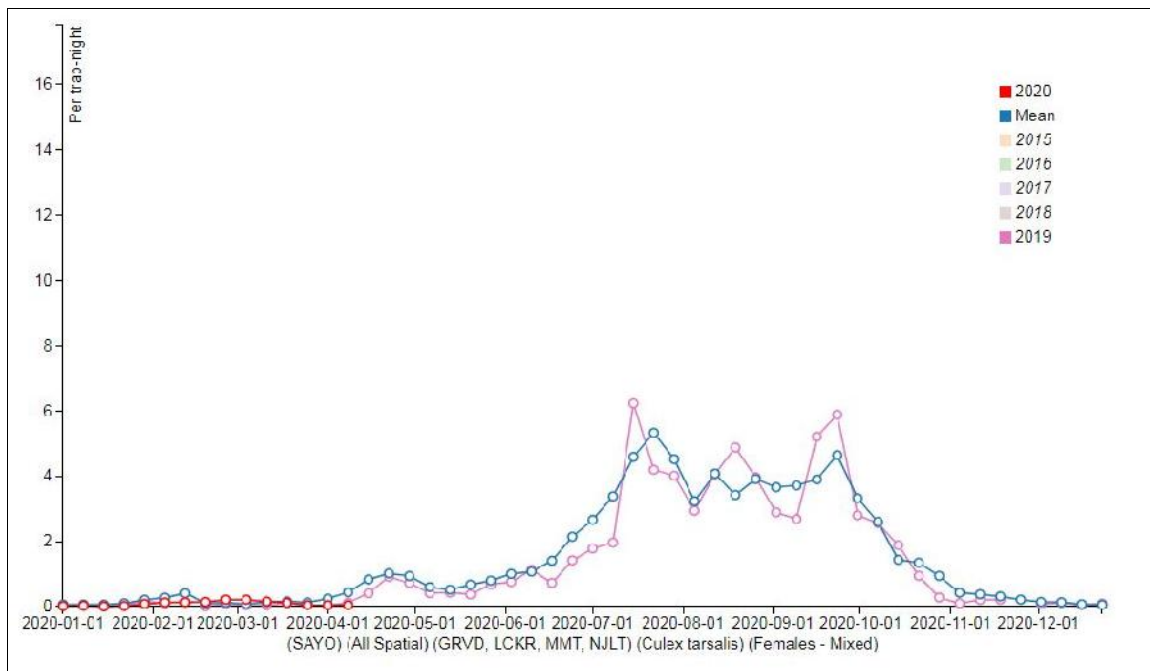
### Surveillance:

- **Weekly collections** – New Jersey Light traps (NJLTs), Locker CO<sub>2</sub> Traps (LCKRs) and Gravid traps (GTs) results are presented in the graphs below. Abundance continues to be low. We expect populations to increase as the weather warms up.

*Culex pipiens* in abundance traps (NJLT, LCKR, GT):



*Culex tarsalis* in abundance traps (NJLT, LCKR, GT):



**Encephalitis virus surveillance (EVS) – Mosquitoes** – We plan on beginning overnight trapping for abundance data the middle of April, and will start virus testing trap collections of *Culex tarsalis* and *Culex pipiens* mosquitoes the first week of May.

**Encephalitis virus surveillance (EVS) – Sentinel Chickens** – Chicken arrival day is April 23<sup>rd</sup>. We will be picking up our chickens in Modesto and delivering them after baseline bleeds to our five flock sites. We will also have replacement chickens available in our Bond Rd mosquito-proof coop if they are needed during the season. During the season, any chickens that seroconvert are removed and replaced.

**Encephalitis virus surveillance (EVS) – Dead Birds** – The dead bird hotline is open as of Monday April 13<sup>th</sup>. We will again be picking up and testing dead birds reported to the hotline. We will be utilizing Mapvision for the first time to assign the dead birds to laboratory technicians for pick up.

**Invasive *Aedes spp.* Surveillance** – We have not yet detected any *Aedes aegypti* activity in Citrus Heights this year. We are picking up trap baskets weekly at our ten surveillance sites. We will expand trapping to new locations as soon as we detect activity in Citrus Heights.

**Tick and Lyme disease surveillance** – We have one more month of tick surveillance at our 20 sites which are monitored for the presence of *Ixodes pacificus* ticks. Pools (samples) of these ticks will be tested for *Borrelia burgdorferi*. We have currently found three positive pools from two sites. The pools were all from the American River corridor, near Folsom.

**BG Counter Traps** – We will begin deploying these traps within the next month in some habitats, with the rice area traps being deployed later in early June.

**Mosquito Resistance Testing** – We are will being larval bioassay resistance testing this month. The adult resistance testing will be done in primarily in the summer months.

**Disease Response Surveillance** – In the month of March, we were not notified of any imported mosquito-borne disease cases.

#### **District Studies –**

**LVL (Low Volume Larvicide) studies** – We are anticipating utilizing this application method for our invasive *Aedes* response this season and are developing plans for evaluating its efficacy.

**Adulticide Product Trials** – We plan on again conducting efficacy trials again this season with pesticide products currently used at the District.

**Sugar Bait Project** – We are in the process of locating sites for the initial placement of these baits. They will be left in the field for one week, then picked up and tested for the presence of virus.

**Resistance Evaluations** – We plan on beginning our season with a look at the larval resistance profiles for our larvicides in several Woodland *Culex pipiens* populations.

***Aedes aegypti* traps** – Currently, we utilize BG Sentinel traps for monitoring our Citrus Heights invasive *Aedes* populations, we plan on evaluating other trap types as well once we see activity in the spring/summer in this area.

#### **Collaborations –**

**Catch Basin Residue and Resistance study** – We are planning year two of this study with Dr. Gan's lab at the University of California Riverside. Several other mosquito control districts are also participating.

**Additional Projects** – We are currently supporting two researchers in their application for Pac-Vec Center of Excellence training grants and will be collaborating with them if they are awarded the grants.

**2020 California Arbovirus Surveillance Bulletin updates will begin this month.**

**ECOLOGICAL MANAGEMENT DEPARTMENT**  
**Monthly Report for the April 2020 Board Meeting**

**Agriculture Program**

Staff has started annual access road mowing around dairy sumps, ditches, and duck club wetland cells in both counties as the weather allows. Staff will be exploring practical methods for vegetation removal around select dairy sumps and will be assisting with the evaluation of Sumilarv larvicide on these same sumps this season.

**UAS Program**

DroneDeploy: Staff participated in a series of conference calls with the District's main drone software provider DroneDeploy to discuss advanced processing and workflow opportunities.

Leading Edge Associates and Aerial Technologies Inc.: Staff participated in a seasonal planning conference call to help determine the anticipated need and services provided by Leading Edge for this mosquito season.

Staff completed and submitted the second FAA Public Certificate of Authorization (COA) request to the Federal Aviation Administration(FAA) to keep the District's application Unmanned Aircraft System(UAS) unit operational.

Every District FAA licensed pilot with a small UAS rating will have to re-certify per FAA testing regulations this year. One Ecological Management staff recently took and passed his sUAS Recertification exam. Both Ecological Management Technicians were scheduled to take the California Department of Pesticide Regulation's Unmanned Aerial Pesticide Applicator exam this year, but due to COVID-19 all testing has been suspended. Staff will provide updates when testing resumes hopefully later this year.

**Wetland Program**

Staff has begun receiving annual grower and irrigation plans from some of the wetland preserves as well as from some of the organic rice producers. Multiple annual spring meetings have been canceled due to COVID-19, and are being handled by email and conference calls.

**Pool Program**

Staff helped with assembling Request for Inspection mailers for all of Elk Grove known active pool sites in an attempt to minimize physical site inspections. In addition to increasing the District's mailings, staff is working on developing emergency FAA waivers to assist with UAS imagery of pools if needed later this season.

**BIOLOGICAL CONTROL**  
**Monthly Report for April 2020 Board Meeting**

In the month of March the Fisheries Department finished stocking the mosquitofish grow out ponds with help from personnel from other departments. This process would normally have taken 1-2 weeks but with the collaborative effort we were able to finish this process in 4 days. Multiple days in March were spent monitoring water quality, running aerators, clean water and the deep well system to keep water quality stable and pond levels high. Daily activities such as tank cleaning were also performed to maintain the high quality of our fish population. The fisheries department will be involved in many projects this season including monitoring dissolved oxygen levels, crayfish trapping, testing the ideal stocking rates and investigating the use of mosquitofish pheromones to repel mosquito egg laying.

Log of Treatment Applied for March

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Rate</u>	<u>Treatments</u>
Mosquitofish	45.78 lbs	164.98 Acres	.2lbs/ac	534

Log of Treatment Applied for the year 2020

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Rate</u>	<u>Treatments</u>
Mosquitofish	120.15 lbs	358.60 Acres	.22lbs/ac	869

Fish checked out by Crew

Fisheries- lbs, North Sac-77.9lbs, South Sac-14 lbs, Yolo- 20 lbs, Catch Basin 8.25 lbs

Fisheries Budget

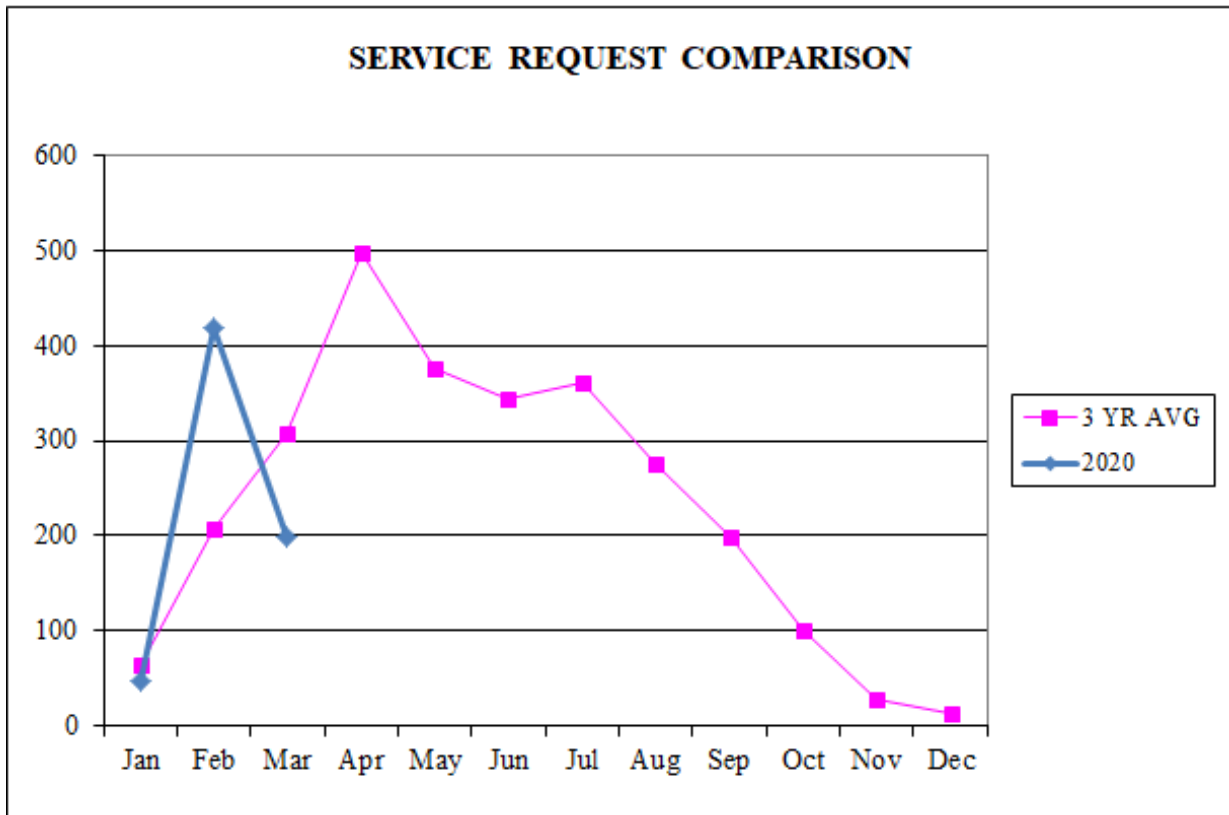
<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
27,000.00	18,888.99	8,111.01	70%



Example of one of the seines that was performed during the mosquitofish moving process

**CONTROL OPERATIONS**  
**Monthly Report for April 2020 Board Meeting**

Control operations staff have been responding to service requests and working on first round inspections of known green swimming pools. Brush control projects are finishing up allowing better access to sources for inspection and treatment. In certain areas field technicians have been treating floodplains as some rivers and streams rise from the last rains. The Catch Basin crew have been inspecting and treating basins as needed with more short term product in anticipation of the latest rains and will now begin the switch over to more long term products moving into the summer season. District ULV trucks have been calibrated and droplet testing will follow up within the next couple of weeks making them operational for the 2020 season



<b>Larvicide Applications thru March 31<sup>st</sup></b>				
	<u>2020</u>		<u>2019</u>	
<u>Locations/Roles</u>	<u>Treatments</u>	<u>Acres</u>	<u>Treatments</u>	<u>Acres</u>
Sacramento County	537	106	296	247
Sac County Aerial	Orders 0	0	Orders 0	0
Yolo County	70	37	13	9
Yolo County Aerial	0 Orders	0	0 Orders	0
CB Treated	0	--	0	--
CB Inspected -not treated	0	--	0	--

<b>Aerial Adulticide Summary thru March 31<sup>st</sup></b>				
	<u>2020</u>		<u>2019</u>	
<u>County</u>	<u># Applications</u>	<u>Acres</u>	<u># Applications</u>	<u>Acres</u>
Sacramento Ag	0	0	0	0
Sacramento Urban	0	0	0	0
Yolo Ag	0	0	0	0
Yolo Urban	0	0	0	0
Totals		0		0

**VDCI Summary through March 31<sup>st</sup>, 2020**

**compared to: 2019**

Contract Acres (our portion) =	530,000	530,000
Acres used =	0	0
Acres remaining =	(530,000)	(530,000)
% Acres used =	0%	0%
% Acres remaining =	100%	100 %

San Joaquin County MVCD has used 0 acres of their 190,000 acre contract commitment.

Placer MVCD has used 0 acres of their 100,000 acre commitment.

Turlock MAD has used 0 acres of their 180,000 acre commitment.

**PUBLIC INFORMATION AND EDUCATION  
Monthly Report for April 2020 Board Meeting**

**Mosquito Awareness Week**

Mosquito Awareness Week and the official launch of our public information and education campaign is April 19-25. This year, due to COVID-19 we will not be able to participate in our annual events. Winners of the Fight the Bite contest will still be announced and repellent will still be distributed to Loaves and Fishes, however we will not be able to set up our education table as we have done in the past. Media stories will be pitched in to obtain some media coverage as we have gotten in previous years.

**Fight the Bite Contest**

The deadline for the 2020 annual Fight the Bite Contest was on April 1st. This year we received a total of 502 entries. There were sufficient participants in each category to be able to select winners and they will be announced as part of Mosquito Awareness Week. We are currently in the middle of reaching out to teacher and schools to notify them if they've had a winning student. Each winner and their school will receive their cash prize as done in the past. Winning artwork will be featured on our website and promoted on social media.

**Advertising**

The 2020 advertising campaign will kick off during Mosquito Awareness Week and we will have commercials on English and Spanish radio stations to announce the beginning of the season. These radio spots will only air during this week. The general media plan, which includes a wide mix of advertising outlets including television, radio, outdoor billboards, digital ads and cable ads, is currently being finalized and contracts are being negotiated by our media consultant. Media account executives have submitted media plans for the season and we have set up meetings to discuss goals and objectives of the advertising campaign. We are also in the process of creating new radio scripts. The new creative will be ready for use during the upcoming advertising season. Beyond Mosquito Awareness Week, the advertising campaign is set to launch in May during Memorial Day Weekend.

**Social Media**

Our social media efforts continue and to date we have 11,236 followers on Facebook. Content is focused on information regarding the upcoming Mosquito Awareness Week and the services provided by the District. We have also included information that coronavirus cannot be transmitted by mosquitoes, which is a question that has come up on multiple occasions. We have launched some Facebook ads geared towards increasing our number of fans and will also soon feature an ad about reporting dead birds

**Events and Presentations:**

All of the events and presentations that had been scheduled for April have been cancelled due to COVID-19.



# Sacramento-Yolo Mosquito and Vector Control District

## April 20, 2020 Board Meeting

### 4. Board Review and Discussion of District Projects and Collaborations for 2020 Season

#### Staff Report:

The District has a variety of research projects planned for this season. Some are collaborative with industry and/or university entities while others are independent Sacramento-Yolo District projects. Two of the projects are in conjunction with the new Pacific Southwest Regional Center of Excellence in Vector-Borne Diseases and are in their second year. Some of the projects below are subject to COVID-19 restrictions.

**Catch Basin Pesticide Residue:** This Regional Center of Excellence project is in collaboration with Dr. Jay Gan and Nathan Sy from the University of California, Riverside. We will work with the Gan lab to evaluate pesticide residue levels in catch basins. We will be performing bottle bioassay assays on mosquitoes from the same habitat to see if larval exposure to adulticides can lead to building resistance.

**Sugar Bait Virus Detection:** This Regional Center of Excellence project is with Dr. Lark Coffey from the University of California at Davis. This project will involve deploying sugar baits in the spring in a grid like pattern before we typically detect West Nile virus. The goal is to develop a method for early detection of West Nile virus to better target our EVS traps.

**Surveillance Technologies:** This season we are looking at a variety of trapping types to help enhance our various programs. There are two traps we are looking at evaluating from Biogents, the BG-I and the BG-MAST. The BG-I trap is an upgrade on the counter trap that the District has been using that would identify mosquitoes remotely as they enter the trap and send that data to a secure website that we would be able to access from the office. The BG-MAST is geared towards our invasive surveillance program as it attracts male *Aedes aegypti* mosquitoes. The District will also examine if there is space for ovitraps in our invasive surveillance program.

**Trucking Mounted Low Volume Larvicide Spraying:** We will continue our evaluation of VectoBac WDG in suburban habitats. Specifically, we are looking at lower the application rate to bring cost down. Clarke and Central Life Sciences are also looking into this application method and we plan to run trials with each of these companies this summer.

**Rice Habitat Adulticide Product Evaluation:** The District will conduct sentinel cage and droplet efficacy trials of all of our adulticide products used for adult mosquito control. We will also be continuing to routinely monitoring resistance in adult mosquito populations.

**Larvicide Product Evaluation:** We will also be evaluating larvicide products used in a variety of habitats, specifically catch basins and dairy sumps. We are prioritizing the testing of methoprene in populations of *Culex pipiens* from Woodland catch basins as the District has stopped using methoprene for nearly a decade in those sites due to resistance issues.

**Efficacy of Mosquito Control in the Rice Field Habitat:** How to evaluate overall effect of control measures is difficult in the rice field areas. Recruitment and the overall acreage involved confound evaluations. We intend to select one large area of District rice habitat and with increase in deployment of traps along with age grading of female mosquitoes, hope to be able to definitively evaluate our control effects.

**Sterile Insect Technique (SIT):** In light of our recent *Aedes aegypti* detection, the District is investigating the use of SIT as an additional control measure for our areas of concern. At this point the MosquitoMate product is awaiting registration in California. In the meantime the District is creating an SIT page for our website and creating a rollout plan for when this becomes an option for deployment.

We are always open to new ideas and projects to enhance our current program.

**Recommendation:**  
**Information Only**

# **Sacramento-Yolo Mosquito and Vector Control District**

## **April 20, 2020 Board Meeting**

5. **Closed Session- Provide Instruction to Designated Labor Representatives (Gov. Code s. 54957.6-Labor Negotiations)**  
**Agency Designated Representatives : [Gary Goodman, Janna McLeod, Samer Elkashef, Chris Voight]**  
**Employee Organization: [Operating Engineers Local Union #3]**

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