

SACRAMENTO-YOLO  
MOSQUITO & VECTOR  
CONTROL DISTRICT

AUGUST 20, 2019

BOARD OF TRUSTEES  
REGULAR MEETING

BOARD PACKET

10:00 A.M.

8631 Bond Road  
Elk Grove, CA 95624



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

8631 Bond Road  
Elk Grove, CA 95624

**AGENDA  
August 20, 2019  
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 July 16, 2019 Board of Trustees Meeting**
- b. **Expenditures for July 2019**
- c. **Board Consideration of Resolution Honoring Randy Burkhalter for His Years of Service**
- d. **Board Authorization to Grant a Leave of Absence for District Employee Pursuant to Section 6.05 (b) of the District Personnel Manual**
- e. **Board Review and Approval of Yolo County Department of Financial Services Office Authorization Form for FY 2019-2020**

**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**

- **Review of District Website**

4. **Status of West Nile Virus Activity and District Response**
5. **Board/Staff Reports and Requests**
6. **Adjournment**

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

## **August 20, 2019 Board Meeting**

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

- a. Minutes of the July 16, 2019 Board of Trustees Meeting;
- b. Expenditures for July 2019;
- c. Board Consideration of Resolution Honoring Randy Burkhalter for His Years of Service;
- d. Board Authorization to Grant a Leave of Absence for District Employee Pursuant to Section 6.05 (b) of the District Personnel Manual;
- e. Board Review and Approval of Yolo County Department of Financial Services Office Authorization Form for FY 2019-2020.

### **Recommendation:**

**Approve the Items by General Consent**

**MINUTES OF THE JULY 16, 2019  
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:**

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

**TRUSTEES ABSENT:**

Gar House	Winters
Vacant	Galt

**LEGAL COUNSEL:**

Joshua Horowitz

**STAFF PRESENT:**

Gary Goodman	Manager
Samer Elkashef	Assistant Manager
Janna McLeod	Administrative Manager
Marcia Reed	Laboratory Director
Steve Ramos	Program Coordinator
Marty Scholl	Ecological Management Supervisor
Luz Robles	Public Information Officer

**CALL TO ORDER**

The meeting was called to order at 10:00 a.m. by President Raymond LaTorre.

**Roll Call**

Trustee Gar House was absent; however, a quorum was present. Trustee Christopher Barker arrived to the meeting at 10:25am.

**Pledge of Allegiance**

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

At this time President LaTorre called for a moment of silence to honor Field Technician II, Timothy Gee, who suddenly passed away over the weekend. Tim was a valued member of the District for over fourteen years and will be sorely missed by his coworkers, friends and family.

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

On a motion by Trustee Burnett seconded by Trustee Karpinski-Costa, the Board voted to approve General Consent Items a. through b. The motion passed by the following vote: Ayes: 10, Noes: 0, Absent: 2

- a. Minutes of the June 16, 2019 Board of Trustees Meeting;
- b. Expenditures for June 2019.

### **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:**

The District's West Nile season is off to a slow start as compared to last year with the recent detection of the first WNV positive dead bird and the first positive mosquito collection pool for our District. Crews are very busy addressing high populations and virus activity in various areas. Staff will continue to follow the Mosquito Borne Disease Management Plan with enhanced surveillance and control efforts in response to positive dead birds or positive mosquito collections. The District conducted a flyover with a new vendor of approximately 50 square miles over parts of north Sacramento County to look for green swimming pools and compare to the District's previous flyovers. The goal is to see how efficient the new system would be and to test their artificial intelligence system on its ability to accurately find swimming pools and shorten the timeline from flyover to identification. The AMCA is continuing to push for appropriations to the newly passed SMASH (Strengthening Mosquito Abatement for Safety and Health) Act. The Senate appropriations committee is meeting this month to hopefully finalize the CDC budget and include funding for SMASH. We have been partnering with other public health entities to educate our lawmakers on the need for this funding. The MVCAC supported bill (AB320) that would establish the CalSurv Gateway in state statute and codify existing operations will be heard in the Senate Education Committee on July 10th.

**b. 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 discussed department activities including mosquito abundance, EVS surveillance, studies and collaborations. *Culex pipiens* abundance is higher than the five year average while *culex tarsalis* abundance is climbing now that much of the rice is planted and temperatures are warmer. The District has collected and tested 171 dead birds

with just one bird testing positive for West Nile virus so far this season. At this time last year we had collected 210 dead birds with 23 of those testing positive for WNV. The dead bird was collected from the Elverta area with one mosquito sample pool testing positive for West Nile virus in the Florin area. Additional surveillance traps have been set in both areas. Spray evaluations related to the product trials are taking place this month. In addition, samples from catch basins will be sent to Dr. Gan for analysis as a part of the residue and resistance study.

**Ecological Management:** Ecological Management Supervisor, Marty Scholl discussed department activities including Stormwater/Drainages, Wetland Program, Planning Program, Pool Program, and the UAS Program. Staff has been monitoring and notching beaver dams in the main drainage ditch north of Hwy 5 in the Yolo Bypass and will install a pipe in the dam, if necessary. Staff has reviewed plans for and will work with appropriate staff on the City of Sacramento McKinley Water Vault project and the Army Corps of Engineers on their drainage project in the Yolo Bypass Wildlife Area. UAS treatments are being performed by Leading Edge with staff preparing to take C DPR's UAS Certification for Vector Control Technicians on August 15<sup>th</sup>. Staff has submitted six warrant applications for swimming pools technicians have not been able to gain access to in order to inspect and treat.

**Biological Control:** Fisheries Supervisor, Tony Hedley provided a written report in the Board packet. Manager Goodman noted the pictures of the new fencing that were included in the report and indicated there are plans to install more fencing like this around other ponds.

**Larval and Adult Control:** Program Coordinator, Steve Ramos reported on department activity including rice acreage, abundance responses, green swimming pools and trial work. This year there are approximately 39,133 acres of rice, 34,145 of conventional and 4,988 of organic, which is about a 16% decrease when compared to last year. Adulticiding in agricultural areas has picked up due to high abundance in the District's rice traps. Staff is continuing to work on the Sumilary trial for catch basins and dairy lagoons.

**Public Outreach:** Public Information Officer, Luz Robles reported on department activities including Advertising and Media, Events, Government Affairs, and Repellent and Materials Distribution. The District launched the children's Mosquito Buster Squad website with interactive games and activities geared towards reinforcing our Fight the Bite prevention messages. The site will be promoted to teachers through social media and school presentations. The advertising campaign is in full swing with messages airing on radio and television stations, billboards and train ads. Staff will be attending the Pear Fair in July and are distributing repellent as requested for local events including National Night Out in August.

**4. 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]**

President LaTorre adjourned the Regular meeting to go into Closed Session at 10:47 am. The Board returned from closed session and re-opened the regular meeting at 11:11 am with nothing to report from the closed session.



**5. BOARD REVIEW AND APPROVAL OF SIDE LETTER TO THE MOU BETWEEN DISTRICT AND OPERATING ENGINEERS LOCAL UNION #3**

Manager Goodman introduced this item and was available to answer questions. On a motion by Trustee Denny seconded by Trustee Burnett, the Board voted to approve the Side Letter to the MOU between the District and Operating Engineers Local Union #3. The motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1

**6. BOARD REVIEW AND APPROVAL OF DISTRICT BUDGET FOR 2019-2020**

Manager Goodman introduced this item and was available to answer questions. The costs associated with the Side Letter Agreement, including a 2.4% salary adjustment for the represented employees, have been included in this draft of the budget. On a motion by Trustee Denny seconded by Trustee Eldridge, the Board voted to approve the 2019-2020 Budget. The motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1

**7. BOARD AUTHORIZATION TO PAY 2019/2020 ANNUAL PREMIUM INVOICE OF \$314,877 FOR COVERAGE THROUGH THE VECTOR CONTROL JOIUNT POWERS AGENCY**

On a motion by Trustee Burnett seconded by Trustee Maggy, the Board voted to approve the payment of the 2019/2020 VCJPA Premium Invoice in the amount of \$314,877. The motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1

**8. BOARD AUTHORIZATION TO PAY CALPERS UNFUNDED LIABILITY INVOICES OF \$887,797**

On a motion by Trustee Burnett seconded by Trustee Denny, the Board voted to approve the payment of the CalPERS Unfunded Liability invoices in the amount of \$887,797. The motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1

**9. BOARD/STAFF REPORTS AND REQUESTS**

A presentation of the Mosquito Buster Squad web site will be provided at the next Board meeting.

The MVCAC summer meeting will be held on Thursday, July 18<sup>th</sup>.

Staff will be meeting with Lundberg Farms, a rice farmer, near the end of the month.

Field Supervisor Randy Burkhalter is retiring the end of July.

Long term revenue and expense projections are being prepared for discussion at a future Board meeting.

**10. ADJOURNMENT**

The meeting adjourned at 11:22 am.

\* \* \* \* \*

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the July 16, 2019 meeting.

---

Gary Goodman, Manager

Approved as written and/or corrected by the Board of Trustees at the August 20, 2019 meeting.

---

Craig Burnett, Board Secretary

**July 2019 Check Register**  
**Activity From: 7/1/2019 to 7/31/2019**  
**Sacramento Yolo MVCD (SYC)**

<b>Check Number</b>	<b>Check Date</b>	<b>Vendor Number</b>	<b>Name</b>	<b>Check</b>
<b>Bank Code:</b> U US Bank				
052964	7/3/2019	0000504	US Bank	34,522.23
052965	7/10/2019	0000006	Adapco Inc	4,999.60
052966	7/10/2019	0000014	Alhambra & Sierra Springs	401.49
052967	7/10/2019	0000015	All Star Glass	269.30
052968	7/10/2019	0000017	American Mosquito Control Association	5,250.00
052969	7/10/2019	0000018	ANDKO Building Maintenance Inc.	2,777.94
052970	7/10/2019	0000034	AutoZone Inc	2,048.78
052971	7/10/2019	0001274	Barber & Gonzales Consulting	2,638.28
052972	7/10/2019	0000038	Bartkiewicz Kronick & Shanahan	957.58
052973	7/10/2019	0000976	Blanning & Baker	5,521.86
052974	7/10/2019	0000073	CA Dept of Public Health	8,866.00
052975	7/10/2019	0001030	California Steam	Voided
052976	7/10/2019	0001019	Cintas Corporation	3,120.47
052977	7/10/2019	0000117	City of Woodland	471.93
052978	7/10/2019	0000119	Clarke Mosquito Control Products Inc	18,554.25
052979	7/10/2019	0000121	Clear Channel Outdoor	13,790.00
052980	7/10/2019	0000125	Commerce Printing	5,667.65
052981	7/10/2019	0000126	Complete Welders Supply Inc	687.70
052982	7/10/2019	0000128	Consolidated Communications	2,522.12
052983	7/10/2019	0000186	Elk Grove Water District	620.86
052984	7/10/2019	0000199	Farm Air Flying Service	11,892.27
052985	7/10/2019	0000202	Ferrellgas	119.42
052986	7/10/2019	0000240	Hunt & Sons Inc	9,880.91
052987	7/10/2019	0000277	Kimball Midwest	197.88
052988	7/10/2019	0000352	Northern Safety Co	1,176.18
052989	7/10/2019	0000356	OReilly Automotive Stores Inc	735.39
052990	7/10/2019	0000367	PG & E	197.50
052991	7/10/2019	0000578	Radio Santisimo Sacramento	1,000.00
052992	7/10/2019	0000388	Republic Services #922	33.57
052993	7/10/2019	0000424	Safe Side Security	1,168.50
052994	7/10/2019	0000451	SMUD	4,595.29
052995	7/10/2019	0000937	Staples Business Advantage	906.85
052996	7/10/2019	0000461	Stericycle Inc	77.20
052997	7/10/2019	0000465	Style Media Group	385.00
052998	7/10/2019	0001234	T-Mobile	851.52
052999	7/10/2019	0000486	The Tire Rack	683.76
053000	7/10/2019	0000501	United Textile Inc	1,136.77
053001	7/10/2019	0000502	Univar Inc	18,554.25
053002	7/10/2019	0000505	US Bank Equipment Finance	204.72
053003	7/10/2019	0000518	Vector Disease Control International	50,000.00
053004	7/10/2019	0000522	Verizon Wireless	2,575.17
053005	7/10/2019	0000529	Waste Management	162.08
053006	7/10/2019	0000544	Yolo County Fair-40th Dist Ag Assoc	700.00
053007	7/12/2019	0000083	CA Department of Tax and Fee	1,277.00
053008	7/12/2019	0000141	CSAC Excess Insurance Authority	497.76
053009	7/12/2019	0000267	Kaiser Foundation Health Plan	20,994.55
053010	7/12/2019	0000267	Kaiser Foundation Health Plan	1,447.90
053011	7/12/2019	0000267	Kaiser Foundation Health Plan	3,619.75
053012	7/12/2019	0000267	Kaiser Foundation Health Plan	18,636.27
053013	7/12/2019	0000373	Preferred Benefit Ins Administrators	8,510.60

053014	7/12/2019	0000957	Sutter Health Plus	8,816.86
053015	7/12/2019	0000517	Vector Control Joint Powers Agency	6,500.00
053016	7/12/2019	0000531	Western Health Advantage	6,768.53
053017	7/12/2019	0000531	Western Health Advantage	4,005.47
053018	7/23/2019	0000006	Adapco Inc	295,063.46
053019	7/23/2019	0000036	Awards by Kay	115.00
053020	7/23/2019	0001019	Cintas Corporation	124.70
053021	7/23/2019	0001460	City of Elk Grove Public Works Department	2,075.04
053022	7/23/2019	0000119	Clarke Mosquito Control Products Inc	27,084.58
053023	7/23/2019	0000120	Clean Harbors Environmental Service	527.89
053024	7/23/2019	0000126	Complete Welders Supply Inc	7,196.67
053025	7/23/2019	0000134	Cosumnes Community Services Dist	100.00
053026	7/23/2019	0000167	Dignity Health Med Fdtn-Woodland	63.00
053027	7/23/2019	0000169	Diversified Biotech Inc	201.38
053028	7/23/2019	0000198	Factory Motor Parts Co	414.15
053029	7/23/2019	0000199	Farm Air Flying Service	54,262.62
053030	7/23/2019	0000208	Fox 40 KTXL	3,120.00
053031	7/23/2019	0000958	GreatAmerica Financial Services	372.82
053032	7/23/2019	0000240	Hunt & Sons Inc	3,941.37
053033	7/23/2019	0000293	Life Technologies Corporation	9,453.29
053034	7/23/2019	0000497	Magnegas Welding Supply - West	84.75
053035	7/23/2019	0000331	Murray McDaniel	70.00
053036	7/23/2019	0000367	PG & E	915.93
053037	7/23/2019	0001270	Rubicon Global, LLC	192.56
053038	7/23/2019	0000432	Samer Elkashef	211.93
053039	7/23/2019	0000461	Stericycle Inc	77.20
053040	7/23/2019	0000475	Target Specialty Products	70,418.08
053041	7/23/2019	0000503	Univision Communications Inc	7,555.00
053042	7/23/2019	0000517	Vector Control Joint Powers Agency	314,877.00
053043	7/23/2019	0000519	Vector Laboratories Inc	1,038.16
053044	7/23/2019	0000525	Vortex Industries Inc	1,645.00
053045	7/23/2019	0000526	VWR International Inc	1,762.34
053046	7/23/2019	0000534	Wiley Price & Radulovich	87.00
053047	7/31/2019	0000043	Benefit Coordinators Corporation	3,335.07
053048	7/31/2019	0000084	CA State Disbursement Unit	350.00
053049	7/31/2019	0000339	Nationwide Retirement Solutions	5,975.00
053050	7/31/2019	0000339	Nationwide Retirement Solutions	1,300.00
053051	7/31/2019	0001035	Operating Engineers Local Union No. 3	1,197.00
053052	7/31/2019	0000357	P & A Administrative Services Inc	126.00
053053	7/31/2019	0000504	US Bank	13,275.00
053054	7/31/2019	0000298	Lotus Sacramento Corp	720.00
W00095	7/22/2019	0000087	CalPERS Financial Reporting & Accounting	887,797.00
W00096	7/31/2019	0000561	United States Treasury	70,698.70
W00097	7/31/2019	0000176	EDD	17,943.32
W00098	7/31/2019	0000086	CalPERS 457 Plan	21,120.09
W00099	7/31/2019	0000087	CalPERS Financial Reporting & Accounting	79,816.26
<b>Bank U Total:</b>				<u>2,208,701.32</u>
<b>Report Total:</b>				<u>2,208,701.32</u>

I hereby authorize the use of my signature plate on  
the above-listed warrants, 052964-053054, and EFTs W00095-W00099,  
EFT # W00093 and 94 were deleted and unused.

---

 Signature

---

 Date

Raymond LaTorre, President of the Board

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

Account #	Account Description	1 Month Ended July 31, 2019	FY 19-20 Annual Budget	Unused
4000	REVENUE	\$ -	\$ -	\$ -
5000	SALARIES/BENEFITS/WC	\$ 1,778,865.33	\$ 8,579,233.79	\$ 6,800,368.46
5200	OPERATIONAL	\$ 1,132,392.60	\$ 6,190,059.00	\$ 5,057,666.40
5210	LIABILITY INSURANCE	\$ 140,854.00	\$ 150,854.00	\$ 10,000.00
5250	AUDITING/FISCAL	\$ -	\$ 17,750.00	\$ 17,750.00
5270	COMMUNICATIONS	\$ 6,049.54	\$ 79,500.00	\$ 73,450.46
5310	PUBLIC INFORMATION	\$ 12,093.80	\$ 465,500.00	\$ 453,406.20
5340	STRUCTURE & GROUNDS	\$ 8,573.30	\$ 65,000.00	\$ 56,426.70
5370	MEMBER/TRAINING	\$ 14,458.98	\$ 113,000.00	\$ 98,541.02
5390	DISTRICT OFFICE EXPENSES	\$ 254.78	\$ 15,000.00	\$ 14,745.22
5430	PROFESSIONAL SERVICES	\$ 8,277.69	\$ 198,250.00	\$ 189,972.31
5440	MATERIALS & SUPPLIES	\$ 840.64	\$ 10,000.00	\$ 9,159.36
5450	RENTS & LEASES	\$ 486.90	\$ 11,550.00	\$ 11,063.10
5470	SAFETY PROGRAM	\$ 70.00	\$ 5,000.00	\$ 4,930.00
5480	UTILITIES	\$ 6,959.68	\$ 110,000.00	\$ 103,040.32
6120	AIRCRAFT SERVICES	\$ 57,696.23	\$ 945,500.00	\$ 887,803.77
6140	ECOLOGICAL MANAGEMENT	\$ -	\$ 15,200.00	\$ 15,200.00
6160	MICROBIAL	\$ 425,552.58	\$ 1,500,000.00	\$ 1,074,447.42
6170	BIORATIONALS	\$ 152,554.70	\$ 950,000.00	\$ 797,445.30
6180	INSECTICIDES	\$ 223,412.91	\$ 1,000,000.00	\$ 776,587.09
6220	FISHERIES	\$ 811.56	\$ 27,000.00	\$ 26,188.44
6280	GEOGRAPHIC INFO SYSTEMS	\$ 7,125.00	\$ 7,125.00	\$ -
6320	INFORMATION TECHNOLOGY	\$ 6,402.24	\$ 48,200.00	\$ 41,797.76
6350	CONTROL OPERATIONS	\$ 1,201.34	\$ 32,430.00	\$ 31,228.66
6370	SHOP	\$ 10,712.39	\$ 88,000.00	\$ 77,287.61
6420	LAB SERVICES	\$ 30,725.03	\$ 163,200.00	\$ 132,474.97
6450	GAS & PETROLEUM	\$ 17,279.31	\$ 172,000.00	\$ 154,720.69
7000	CAPITAL ACCOUNTS	\$ -	\$ 573,049.00	\$ 573,049.00
7011/1510	Capital Outlay/Construction In Progress	\$ -	\$ 136,049.00	\$ 136,049.00
7030	Research Fund	\$ -	\$ 50,000.00	\$ 50,000.00
7035	Building Improvement	\$ -	\$ 387,000.00	\$ 387,000.00
	TOTALS			
	Salaries/Benefits	\$ 1,778,865.33	\$ 8,579,233.79	\$ 6,800,368.46
	Operational	\$ 1,132,392.60	\$ 6,190,059.00	\$ 5,057,666.40
	Capital Accounts	\$ -	\$ 573,049.00	\$ 573,049.00
	Total Budget	\$ 2,911,257.93	\$ 15,342,341.79	\$ 12,431,083.86

**Resolution No. 08-20-19**

**A RESOLUTION OF THE BOARD OF TRUSTEES OF THE  
SACRAMENTO-YOLO MOSQUITO AND VECTOR CONTROL DISTRICT  
HONORING *RANDY BURKHALTER*  
FOR HIS 33 YEARS OF SERVICE**

**WHEREAS**, on this twentieth day of August, two thousand nineteen, **RANDY BURKHALTER** is honored for his thirty-three years of service with the Sacramento-Yolo Mosquito and Vector Control District; and

**WHEREAS, RANDY BURKHALTER** started his career with the District in August of 1984 working as a Seasonal Control Operator for two mosquito seasons; and

**WHEREAS, RANDY BURKHALTER** continued his career with the District as a full-time Fisheries Culturist in March of 1986, growing into a Senior Fisheries Culturist and then promoted to a Vector Control Field Supervisor in August of 2005; and

**WHEREAS, RANDY BURKHALTER** was known and respected by members of both the Mosquito and Vector Control Association of California and the American Mosquito Control Association for his establishment of and innovations in the District's Catch Basin program;

**WHEREAS, RANDY BURKHALTER** has decided to retire after thirty three years of service with the District.

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Trustees of the Sacramento-Yolo Mosquito and Vector Control District expresses congratulations and sincere gratitude to **RANDY BURKHALTER** for 33 years of service with the Sacramento-Yolo Mosquito and Vector Control District and wishes him continued success in his future endeavors.

**PASSED AND ADOPTED** by the Board of Trustees of the Sacramento-Yolo Mosquito and Vector Control District on the 20th day of August 2019 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

By: \_\_\_\_\_  
Raymond LaTorre, Board President

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

- d. Board Authorization to Grant a Leave of Absence for District Employee Pursuant to Section 6.05 (b) of the District Personnel Manual

**Staff Report**

The District has had an employee out on Workers' Compensation medical leave due to an injury that occurred on March 21, 2019. Workers' Compensation and FMLA/CFRA run concurrently and the FMLA/CFRA leave expired June 13, 2019. Per the physician's note the employee is requesting a six week extension of this leave through September 6, 2019 to continue to heal and obtain clearance to return to work. Pursuant to section 6.05 (b) of the District Personnel Manual, "A leave of absence over thirty (30) days requires the prior approval of the Board."

The employee has exhausted all of his leave banks therefore the employee will be on unpaid status; however, he is receiving Workers' Compensation benefits.

**Recommendation: Approve a Medical Leave of Absence for Henry Estrada from June 13, 2019 through September 6, 2019.**

Henry Estrada  
2542 Legacy Way  
Lodi CA 95242

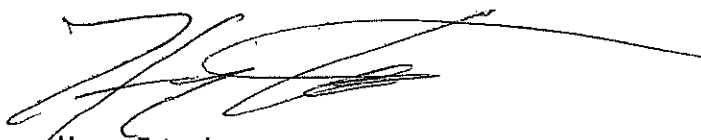
August 6, 2019

Board of Directors  
Sacramento-Yolo Mosquito and Vector Control District  
8631 Bond Road  
Elk Grove CA 95624

Dear Board Members:

Due to my work injury on 3/21/19, my workers' comp began on 3/22/19 and my FMLA/CFRA ran concurrently through 6/13/19. My next doctor appointment is scheduled for August 15, 2019. Unfortunately, circumstances have prolonged my recovery. Therefore, per the note provided by my treating physician, I am requesting six more weeks of medical leave.

Sincerely,



Henry Estrada



MARK F. HAMBLY, M.D.  
D. MICHAEL HEMBD, M.D.  
CHRISTOPHER O. NEUBUERGER, M.D.  
PRUDENCIO S. BALAGTAS, D.O.  
CONOR W. ONEILL, M.D.  
RANDALL W. ARMSTRONG, M.D.  
SARAH L. ZICHELLA, P.A.-C.  
THOMAS J. BRÜDZ, P.A.-C.  
JEANNEE WAINSCOTT, P.A.-C.  
DANA STIEGLITZ, N.P.  
JUSTINE AUER, N.P.



**NCSRA MEDICAL, INC.**  
2801 K Street, Suite 410  
Sacramento, CA 95816

(916) 389-7100 Phone  
(916) 389-7140 Fax  
(916) 389-7141 Fax

**RE: Henry Estrada**

**August 02, 2019**

Claim#: VE190000060 DOI: 03212019

I have been asked to provide a letter regarding this patient's injury in March when he was at work and slipped and fell into a pool.

I work status. This patient suffered

I anticipate therefore that he will be released to his usual work within six weeks.

A handwritten signature in black ink, appearing to read 'Randall W. Armstrong, M.D.', is located in the lower left quadrant of the page. The signature is written in a cursive, stylized font.

Randall W. Armstrong, M.D.

REF MD: Patricia A Wallrich, F: (916)691-8595

PCP: , F:

ADJ WC: Aims DAYNA SIMONDI F: 9165631919

WC NCM: F:

Notes:

COUNTY OF YOLO  
DEPARTMENT OF FINANCIAL SERVICES  
P.O. BOX 1268  
WOODLAND, CA 95776  
(530) 666-8190

COUNTY OF YOLO  
DEPARTMENT OF FINANCIAL SERVICES  
P.O. BOX 1268  
WOODLAND, CA 95776  
(530) 666-8190

<sup>1</sup>	<sup>3</sup>	<sup>5</sup>	<sup>7</sup>	<sup>8</sup>	<sup>9</sup>	AUTHORIZED SIGNATURE OF EMPLOYEE
PICK UP GENERAL CHECKS	GENERAL CLAIMS APPRVL	DEPOSIT APPRL.	JE/TSF DOC. APPRVL	BUDGET MOD. APPRVL		
		xxxx	xxxx			Signature: 
						Print: Gary Goodman, General Manager
		xxxx	xxxx			Signature: 
						Print: Janna Wood, Administrative Manager
		xxxx	xxxx			Signature: 
						Print: Raj Badhan, Senior Administrative Assistant
						Signature:
						Print:
						Signature:
						Print:
						Signature:
						Print:
						Signature:
						Print:

The persons listed above are authorized to perform the above duties on behalf of our governing board as approved in our Minutes recorded at a regular district meeting.

Print Name: \_\_\_\_\_

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

## **August 20, 2019 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 District's West Nile season is the slowest one on record since the introduction to our area in 2004. We continue to follow the Districts Mosquito Borne Disease Management Plan with enhanced surveillance and control efforts in response to positive dead birds or positive mosquito collections.

The spread of *Aedes aegypti* is getting closer to the District boundaries with San Joaquin and Stanislaus counties finding the invasive mosquito. The laboratory staff are continuing our extensive trapping program to monitor their status within our boundaries.

The District has been contacted by US EPA for a site visit to discuss our operations and mosquito control challenges in California. They are scheduled for a visit during the week of September 9<sup>th</sup>.

The MVCAC supported bill, AB 320, which would create and codify the California Mosquito Surveillance and Research Program, was heard and passed out of the Senate Appropriations Committee on August 12<sup>th</sup>.

#### **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)**

## LABORATORY

### Monthly Report for August 2019 Board Meeting

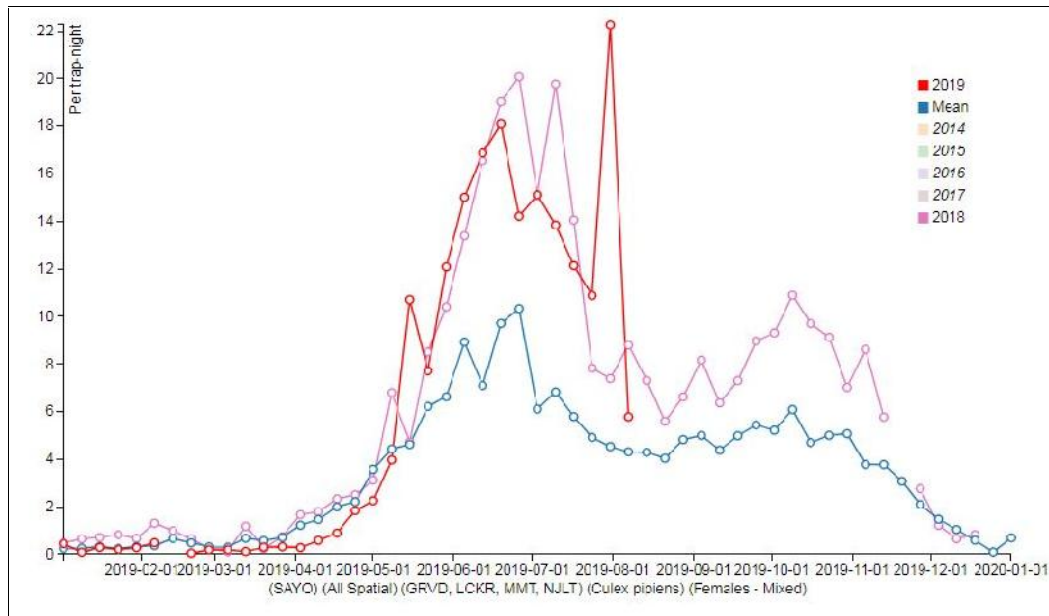
#### Insectary:

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

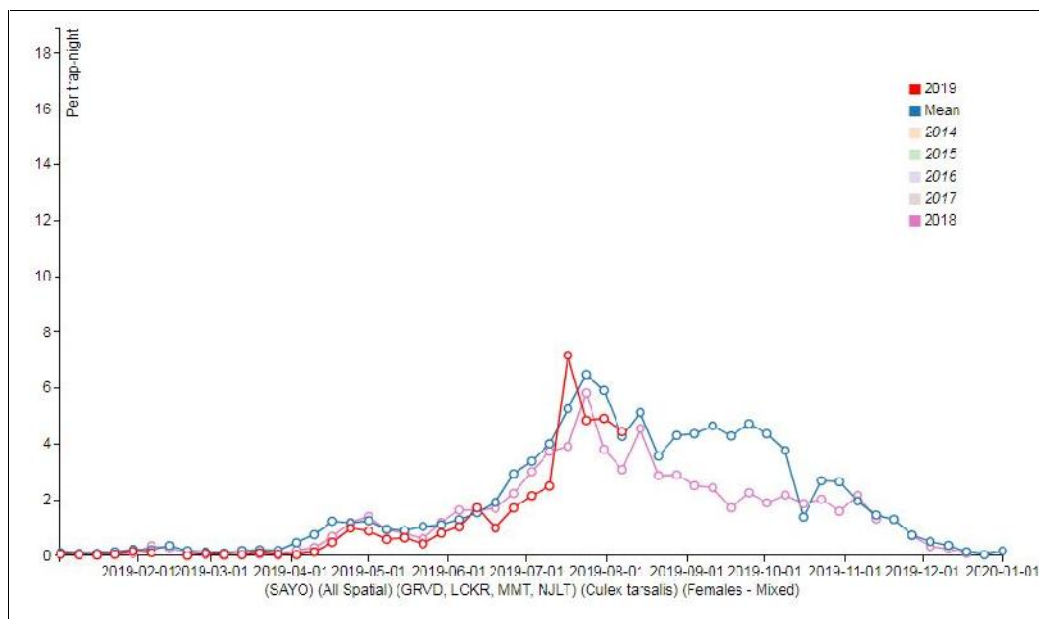
#### Surveillance:

- **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.

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

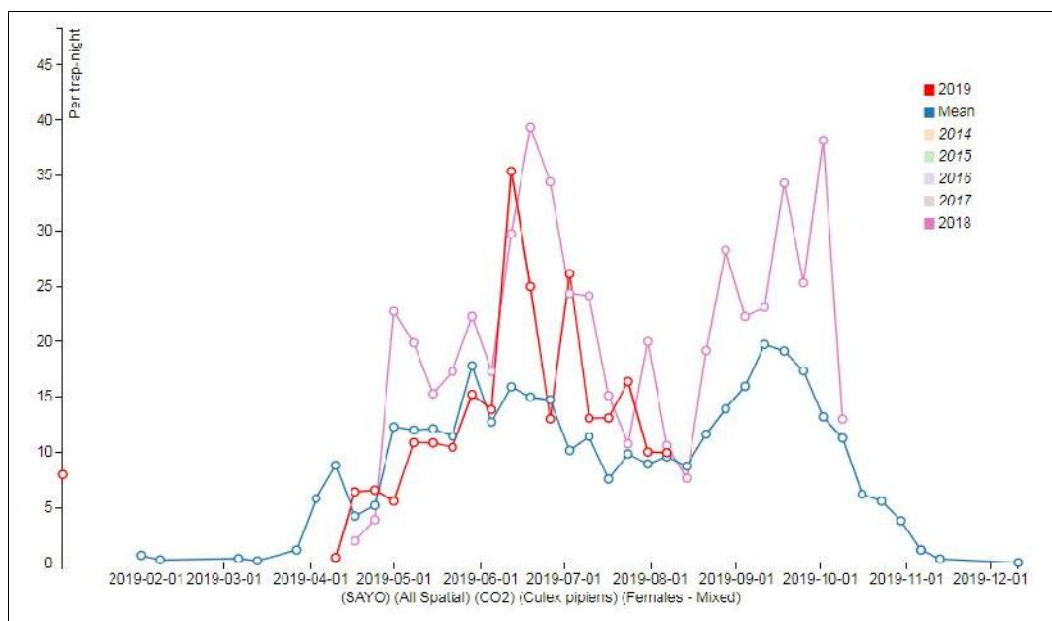


### *Culex tarsalis* in abundance traps (NJLT, LCKR, GT):

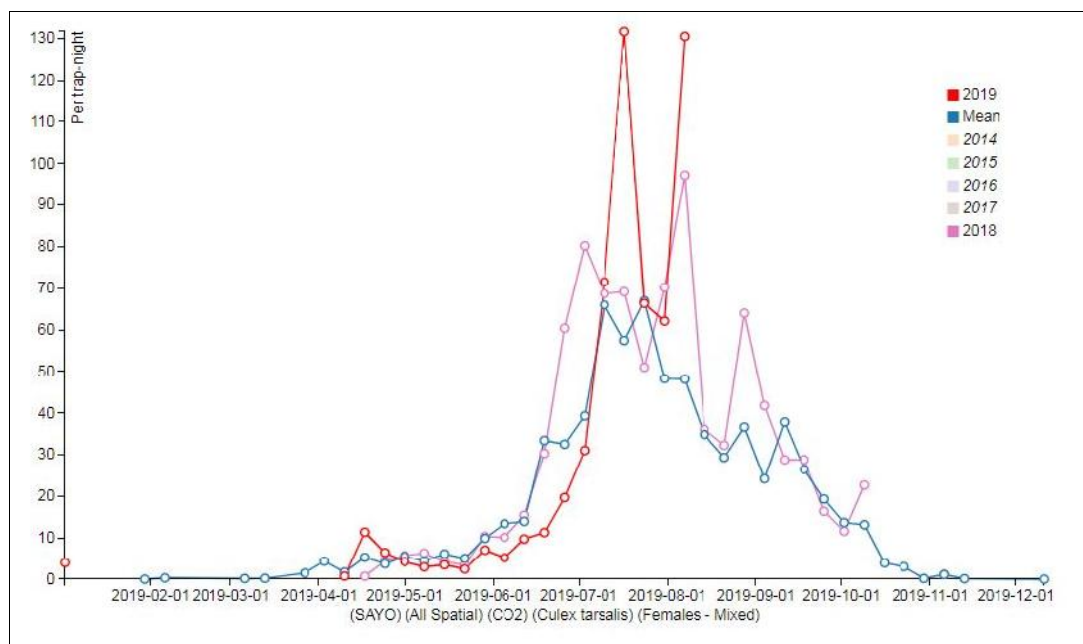


**Encephalitis virus surveillance (EVS) – Mosquitoes – EVS trapping with CO<sub>2</sub> baited and Gravid traps is continuing.** We have currently tested 4047 mosquito pools (samples) and have found 26 to be positive. 23 positive pools are from Sacramento County and 3 are from Yolo County. In addition, trapping being done by UC Davis has found three additional pools from Yolo County. Response trapping is being conducted around the positive sites.

### *Culex pipiens* in CO<sub>2</sub> traps:



### *Culex tarsalis* in CO<sub>2</sub> traps:



**Encephalitis virus surveillance (EVS) – Sentinel Chickens** – We have not detected any seroconversions in our chickens yet this season.

**Encephalitis virus surveillance (EVS) – Dead Birds** – We have tested 178 dead bird samples and found 14 positives, all of the positives are in Sacramento County. Seven of the positive birds were California Scrub Jays, and there were 2 each of American Crows and Yellow-billed Magpies.

**Exotic/Invasive Species Surveillance** – We have trapped at over 100 distinct locations, 80 of these being new sites utilizing BG Sentinel traps baited with the BG-Lure and CO<sub>2</sub>.

**Tick and Lyme disease surveillance** – Tick flagging will begin again in October.

**BG Counter Traps** – These traps continue to be utilized in the adult surveillance program for our rice habitats. We are also collaborating with a student from UC Davis who is studying the impact of weather conditions on mosquito flight activity. They have been collecting and verifying the trap counts of several of our rice field traps. The data from our collections and theirs is recorded and the traps continue to show good results in terms of the automatic counts versus actual counts in the rice field traps. The urban/suburban traps show more variability, which is not unexpected due to lower mosquito activity found in this habitat in general.

**Mosquito Resistance Testing** – We have completed several *Cx pipiens* bottle bioassays, and will be working on *Cx tarsalis* bottle bioassays before the end of the season.

**Non-WNV Disease Response Surveillance** – We just received a report for an imported malaria case. We will be setting traps looking for any *Anopheles* spp. mosquitoes which may be present.



## District Studies –

**WDG WALs study** – We have completed our WALs study for the season and are working on summarizing our findings of its effectiveness.

**Product Trials** – We have completed one Merus 3.0 trial and are working on scheduling another trial. The initial results are encouraging. We have also completed two comparison trials of Pyronyl Oil Concentrate #525 and Pyronyl Crop Spray. We have also completed a Deltagard truck ULV trial. A Dibrom trial is also being planned to evaluate the effectiveness of Dibrom. Dibrom contains the same active ingredient as Trumpet EC.

**Vectobac 12AS via rotary atomizers** – This trial is still being planned for the future.

## Collaborations –

**Catch Basin Residue and Resistance study** – We have performed two sampling events and sent catch basin water and sediment samples to Dr. Gan at UC Riverside for analysis. The basins sampled were in the Woodland and Elk Grove areas.

**Biogents BGI Project** – We are looking forward to again working on this new trap design this season if a prototype becomes available.

**Biogents Pro trap** – We have received the new traps and are in the process of designing a study to compare them against our usual CO<sub>2</sub> baited EVS traps. We are working with California Department of Public Health staff on the design of this evaluation.

**Sugar Bait Project** – We have begun deploying sugar wicks to the field in the areas where West Nile virus has been detected in either mosquito pools or dead bird samples. We have detected virus in two sugar wicks samples. Below are pictures of the wicks.



**PipPop Project** - We have concluded our collection of specimens of potential populations of *Culex pipiens* f. *molestus*. We will be submitting samples to a researcher at Princeton University for genetic analysis.

**California Arbovirus Surveillance Bulletin #19** Week 32: Friday, August 9, 2019

2018 & 2019 YTD West Nile Virus Comparisons		
	2018	2019
Total # Dead Bird Reports	5,117	3,547
# Positive Counties	33	23
# Human Cases	19	10
# Positive Dead Birds / # Tested	284 / 1,328	58 / 1,085
# Positive Mosquito Pools / # Tested	942 / 25,621	1,647 / 25,270
# Seroconversions / # Tested	38 / 5,826	10 / 5,095

YTD WNV Activity by Element and County, 2019				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte			2	
Fresno	1	8	276	
Imperial	2		1	
Kern			80	
Kings			23	
Lake			2	
Los Angeles	2	6	10	3
Madera			30	
Merced		1	19	5
Orange		11	2	
Placer			23	
Riverside			482	
Sacramento		12	23	
San Bernardino	1		18	
San Diego		1		
San Joaquin		3	40	
Shasta			1	
Stanislaus	1		31	
Sutter			3	1
Tulare	3	14	563	
Ventura			1	
Yolo			5	
Yuba		2	12	1
<b>Totals</b>	<b>10</b>	<b>58</b>	<b>1,647</b>	<b>10</b>



## **ECOLOGICAL MANAGEMENT DEPARTMENT**

### **Monthly Report for the August 2019 Board Meeting**

#### **Storm Water / Drainages Program**

Hansen Ranch: Staff is working with the California Department of Water Resources (DWR) maintenance division to remove beaver dams and stream sediment blockages within the Natomas East Main Drainage Canal (NEMDC) in hopes of reducing standing water within Hansen Ranch. DWR has rented equipment to help with the stream maintenance and has requested assistance from the District to monitor the water levels within Hansen Ranch.



#### **Wetland Program**

Staff has started working with the local duck clubs and wildlife area managers to plan fall flooding dates and acreages.

Staff attended a meeting at the Yolo Bypass Wildlife Area headquarters in Davis to plan fall flooding start times for the private land owners that utilize the California Department of Fish and Wildlife (CDFW) water and roads located south of the Wildlife Area in the lower Yolo Bypass. At the meeting Yolo County provided an update on DWR's Yolo Bypass Fish Restoration and Passage Project as well as the Yolo Bypass Drainage Improvement Projects that may be affecting local landowners. Staff will continue to be involved as the planning process progresses to help identify potential conflicts with District operations.

Yolo Flyway Farms: Staff met on site with representatives from DWR and CDFW regarding the new freshwater tidal wetland located in the Lower Yolo Bypass. DWR offered full access and support for the new wetland area, and will help the District identify mosquito breeding areas and will look for solutions once the problems have been identified.

Lower Yolo Ranch: DWR is working with Westlands Water District to develop a continuous freshwater tidal habitat, connecting to the recently completed Yolo Flyway Farms tidal wetland mentioned above. DWR will share with the District design plans as they become available and is seeking input to avoid any mosquito breeding issues. A rough restoration plan is included at the end of this report.

#### **UAS Program**

The California Department of Pesticide Regulation (CDPR) has released the highly anticipated UAS Pest Control Certification Program for Vector Control applications. Marty has been studying and will be taking the test August 15<sup>th</sup>. In anticipation of getting an Unmanned Pest Control Aircraft Pilot Certificate, staff has begun calibrations of the DJI Agras spray UAS. A new granular hopper has also been purchased, and will be tested and calibrated once received.

Leading Edge Aerial Technologies Inc. has larvicided by UAS just under 1400 acres this season covering a diverse range of mosquito source habitats. More treatments are scheduled for summer and into Fall Flooding. Departmental staff has been instrumental in helping to coordinate product inventories, order creation and reporting as well as working with Control Operations to delineate application areas.

Leading Edge also completed an aerial larvicide application over Willow Springs, a dense riparian area off of Marsh Hawk Dr. within the City of Folsom. This marked the first complete area wide application performed in this area as ground vegetation has prevented effective ground based treatments.

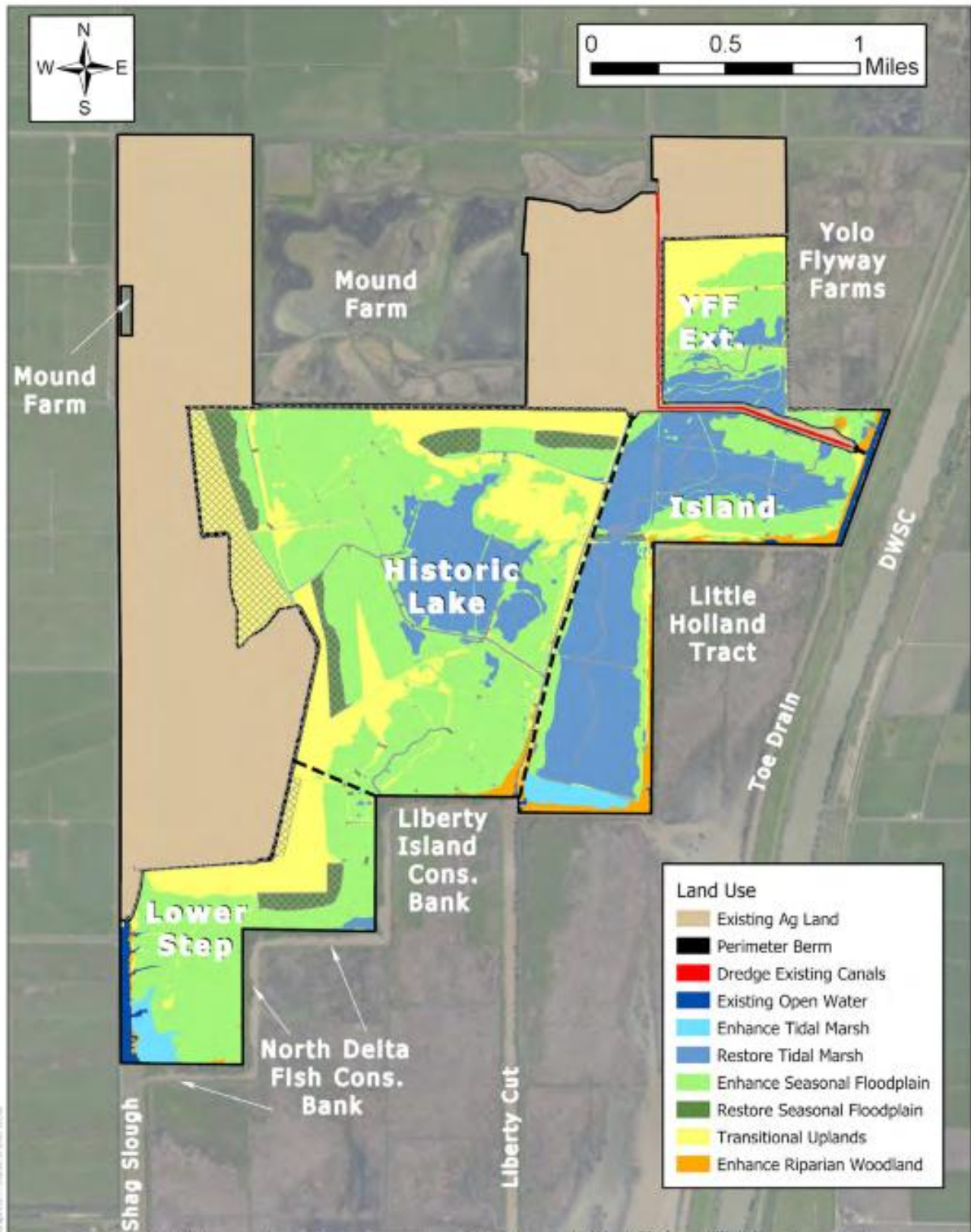


Staff continues to utilize aerial UAS imagery to monitor locations with a known potential of standing water in and around areas with limited access. Staff assisted DWR with finding equipment access points within the NEMDC, as well as helping District technicians find standing water on Delta island properties.

### **Pool Program**

Staff applied for five individual backyard pool warrants and one warrant with a list of eight properties. All warrants were posted and served with the assistance of the appropriate local law enforcement present. Staff have been conducting follow-up inspections on the properties that said they would drain or fix their green swimming pool as well as continuing to attempt inspections on newly received pool locations.





**Figure 17**  
**Proposed Restoration Design**

## BIOLOGICAL CONTROL

### Monthly Report for August 2019 Board Meeting

The District stocked 1,822 lbs. of fish in the month of July. This number is up 23% from July's 2018 number of 1,479 lbs. The vast majority of the fish usage was in the District's rice fields with over 1,790 lbs. as the department worked on stocking as many fields as possible. The department works extensively with the rice growers and communicates regularly with field staff to evaluate every rice field individually for larval density, historical treatments, and proximity to dense residential neighborhoods. Utilizing this data, the timing and stocking rate of all fields is determined. These numbers are anticipated to continue through the first two weeks of August as the need to stock the late season planted rice fields will be required.

The department also continued to gather weekly data for all of our ongoing projects including evaluating pond dye versus traditional fertilization, crayfish control, and the use of solar aerators on dissolved oxygen levels. Daily activities such as medical treatments and tank cleaning were also performed to maintain the high quality of our fish population.

#### Log of Treatment Applied

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Rate</u>	<u>Treatments</u>
Mosquitofish	1,821.98 lbs.	7966.79 Acres	.22lb/acre	494
Guppies	.125 lbs.	.017 Acres	.028lb/Sqft	4

#### Fish Plants by Crew

Fisheries-1,787.0 lbs., North Sac-19.9 lbs., South Sac-8.5 lbs., Yolo-6.58 lbs.

#### Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
27,000.00	967.50	26,032.50	4%



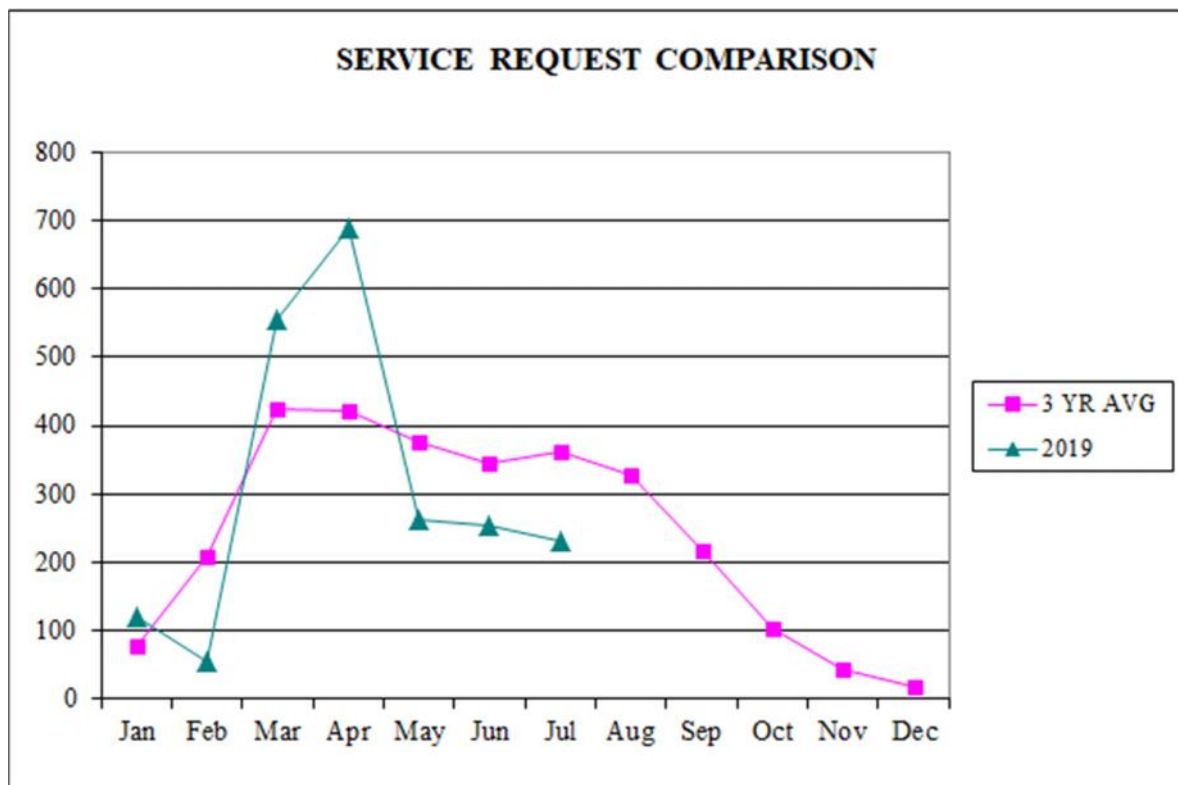
Left photo shows fish seine with an abundance of crayfish. Right photo is a red eared slider eating fish. They can become stuck in our nets.

## CONTROL OPERATIONS

### Monthly Report for August 2019 Board Meeting

The aerial larviciding program was in full swing for July with over 400 individual sources being treated in both Counties combined. The District has transitioned to granular larvicide treatment on rice growing areas in order to penetrate the thicker rice canopy. Aerial adulticiding in agriculture areas has also picked up for the season with over 200,000 acres being treated in both Counties combined; at this time in 2018 the District had treated just over 230,000 acres of agricultural areas. An aerial adulticide trial for Merus 3.0 has been performed over the organic rice fields in the Conaway Ranch with promising results, further evaluation will continue throughout this season. Further aerial evaluations on pyrethrum products were performed in July including Pyronyl 525 and Pyronyl Crop Spray.

Field evaluations of the MGK product Sumilarv 0.5G in dairy lagoons is ongoing with at least one lagoon showing control for over 4 weeks at this time, this evaluation will continue through the season.



\* based on MapVision and Tableau data

<b>Larvicide Applications thru July 31<sup>st</sup></b>				
	<u>2019</u>		<u>2018</u>	
<u>Locations/Roles</u>	<u>Treatments</u>	<u>Acres</u>	<u>Treatments</u>	<u>Acres</u>
Sacramento County	4,138	7,731	5,148	4,419
Sac County Aerial	11 orders, 174 sources-	11,324	11 orders, 139sources	15,095
Yolo County	1,438	4,408	1,538	10,731
Yolo County Aerial	32 orders, 434 sources	40,801	36 orders, 549 sources	55,137
CB Treated	108,693	--	125,316	--
CB Inspected -not treated	98,516	--	73,048	--

<b>Aerial Adulticide Summary thru July 31<sup>st</sup></b>				
	<u>2019</u>		<u>2018</u>	
<u>County</u>	<u># Applications</u>	<u>Acres</u>	<u># Applications</u>	<u>Acres</u>
Sacramento Ag	6	40,640	8	23,360
Sacramento Urban	0	0	6	83,286
Yolo Ag	20	175,769	28	211,200
Yolo Urban	0	0	0	0
Totals		216,409		317,846

**VDCI Summary through July 31<sup>st</sup>, 2019****compared to: 2018**

Contract Acres (our portion) =	530,000	530,000
Acres used =	216,409	321,846
Acres remaining =	313,591	208,154
% Acres used =	41%	60%
% Acres remaining =	59%	40%

San Joaquin MVCD has used 56,977 acres of their 190,000 acre commitment.

Placer MVCD has used 22,256 acres of their 100,000 acre commitment.

Turlock MAD has used 60,399 acres of their 180,000 acre commitment.

**PUBLIC INFORMATION AND EDUCATION**  
**Monthly Report for the August 2019 Board Meeting**

**National Night Out Repellent and Materials Distribution:**

A press release was issued announcing free repellent wipes available for National Night Out. Many neighborhood association and service organizations including the City of Sacramento Neighborhood Services and Parks and Recreation Department took advantage of the District's repellent distribution. In addition, we participated in a National Night Out event organized by the South Land Park Neighborhood Association. The event was very well attended and included participation of local elected officials and law enforcement agencies in addition to community members.

**Events:**

August is a very busy event month with six scheduled events. This year we added the Galt Balloon Festival to our list of events, a unique event held very early in the morning. Our booth was well received and we were able to speak to a variety of residents including those in neighboring counties. We also participated in the Yolo County Children's Alliance Back to School Health Fair. This was an event that was very well attended by many ethnic groups and it gave us the opportunity to distribute repellent and speak to many people that we don't ordinarily reach at other events. Other events we attended included the UC Davis Master Gardener, five days at the Yolo County Fair and the Elk Grove Multicultural Festival.

**Presentations:**

This month two presentations were given. The first was at the Hood Franklin Neighborhood Association where attendees were very interested in learning more about our District services and operations especially since they are so close to Stonelakes Refuge and other mosquito breeding habitats. The presentation was well received and everyone appreciated the repellent and materials that were shared. The second presentation was part of a conference organized by the Department of Water Resources and it was geared towards employees of the agency and other conference participants.

**Media**

As a result of the first activity detected in Yolo County we did have some media coverage including a variety of print articles in the Sacramento Bee, Davis Enterprise and Daily Democrat. In addition, the local ABC10 television station had a report focusing on how West Nile virus can be a very under reported disease.

**Advertising**

The advertising campaign continues to be in full swing and our Fight the Bite messages are airing consistently across radio and television stations. The media schedule is in flights so that our messages are being rotated across stations and this ensures a constant presence at all times throughout the media market. In addition to these commercials we also have billboards and bus ads.





# Sacramento-Yolo Mosquito and Vector Control District

## August 20, 2019 Board Meeting

### **4. Status of West Nile Virus Activity and District Response**

#### **Staff Report:**

The District continues to follow the Mosquito and Mosquito Borne Disease Management Plan which highlights the steps that personnel take in responding to high abundance or infections in the mosquito population. When a dead bird or mosquito is found to have been infected with West Nile virus, lab personnel enhance surveillance efforts around the location to determine the potential spread of the detection. Control operation personnel then conduct a radius of both larval and adult sources to help reduce the number of mosquitoes in the area and to reduce the risk of transmission to the population. The District then continues to monitor the area to determine the geographic extent of the infection and to see if the number of infections decreases from the effort of the control personnel. If infections persist in the area, then more aggressive measures are considered.

The District has experienced a mild WNV year compared to previous years with few ground based adulticide treatments needed in urban/suburban areas. To date, no aerial adulticiding has been required over congested areas to quickly interrupt the transmission cycle of WNV. However, the District has maintained its adulticide activity by air and ground in rice growing and agricultural areas to reduce populations and to prevent migration from these areas to the population centers of the District.

Across the State, the testing effort has remained consistent this year in comparison to 2018. While there are approximately 700 more mosquito pool positives this year compared to last year, the foci of activity in 2019 has been in Tulare(563), Riverside(482), and Fresno Counties(276) accounting for over 80% of the 1647 positive mosquito collections to date . Last year the majority of the positives at this time came from Placer, San Joaquin, Sacramento and Yolo Counties. In contrast to the mosquitoes, West Nile positive dead birds are down from last year with only 58 birds testing positive so far this year compared to the 284 in 2018. There has been a 30% decline in the number of dead birds being reported to the hotline this year versus 2018.

2018 & 2019 YTD West Nile Virus Comparisons-Thru 08/9/2019		
	2018	2019
Total # Dead Bird Reports	5,117	3,547
# Positive Counties	33	23
# Human Cases	19	10
# Positive Dead Birds / # Tested	284 / 1,328	58/1085
# Positive Mosquito Pools / # Tested	942 / 25,621	1647/25,270
# Seroconversions / # Tested	38 / 5,826	10/5,095

The charts below highlight the amount of West Nile activity that the District has recorded year to date for 2019 and annual totals compared to the previous ten years.

**District Year to Date Totals**

		2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
<b>Dead Birds</b>	Positive	12	175	34	390	73	231	144	367	33	81	1	71
	Tested	251	441	291	676	304	505	400	877	190	120	36	349
<b>Mosquito Pools</b>	Positive	18	272	62	505	169	445	385	399	83	139	14	172
	Tested	3873	4610	4135	4914	3587	4389	4069	4155	3330	3742	2926	5540
<b>Human Cases</b>		0	1	0	1	0	1	3	2	0	2	0	2

**District Annual Totals**

		2019*	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
<b>Dead Birds</b>	Positive	12	282	100	490	164	364	296	562	145	136	20	139
	Tested	251	668	424	826	474	665	645	1070	412	185	113	479
<b>Mosquito Pools</b>	Positive	18	390	240	714	337	708	630	641	388	215	52	288
	Tested	3873	6951	7103	8245	7270	7554	6760	6796	6679	6244	4363	8672
<b>Human Cases</b>		0	26	12	41	15	25	19	43	4	13	2	18

*\*Through August 7*

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

