

SACRAMENTO-YOLO
MOSQUITO & VECTOR
CONTROL DISTRICT

MARCH 15, 2016

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
March 15, 2016
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.

CALL TO ORDER:

- **Roll Call**
 - **Pledge of Allegiance**
1. **Items for Approval by General Consent:**
 - a. **Minutes of the February 16, 2016 Board of Trustees Meeting**
 - b. **Expenditures for February 2016**
 - c. **District Investment Report for Period Ending December 31, 2015**
 - d. **Adoption of Resolution Authorizing Renewal of Contract with County of Sacramento, Division of Public Health**
 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 MVCAC Annual Conference Attendees**
 - c. **Reports from District Departments**
 - **Lab/Surveillance**
 - **Ecological Management**
 - **Biological Control**
 - **Larval and Adult Control**
 - **Public Outreach**

4. **Board Review and Consideration of Donation to the Mosquito Research Foundation in the Amount of \$50,000**
5. **Board/Staff Reports and Requests**
6. **Adjournment**

Sacramento-Yolo Mosquito and Vector Control District

March 15, 2016 Board Meeting

1. Items for Approval by General Consent:

- a. Minutes of the February 16, 2016 Board of Trustees Meeting;
- b. Expenditures for February 2016;
- c. District Investment Report for Period Ending December 31, 2015;
- d. Adoption of Resolution Authorizing Renewal of Contract with County of Sacramento, Division of Public Health.

Recommendation:

Approve the Items by General Consent

**MINUTES OF THE FEBRUARY 16, 2016
REGULAR 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:

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

TRUSTEES ABSENT:

Gregory Lanzaro	Winters
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LEGAL COUNSEL:

Richard Shanahan

STAFF PRESENT:

Gary Goodman	Manager
Janna McLeod	Administrative Manager
Marcia Reed	Program Coordinator
Paula Macedo	Lab Director
Marty Scholl	Ecological Management Supervisor
Luz Maria Robles	Public Information Officer
Sarah Wheeler	Biologist

CALL TO ORDER

The meeting was called to order at 10:00 a.m. by President Bruce Eldridge.

Roll Call

Trustee Gregory Lanzaro is absent; however, a quorum is present. Trustee Robert McGarvey arrived to the meeting at 10:30 a.m.

Pledge of Allegiance

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

1. ITEMS FOR APPROVAL BY GENERAL CONSENT

On a motion by Trustee Goethel, seconded by Trustee Denny the Board voted to approve General Consent items a. through c. The motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 2.

- a. Minutes of the January 19, 2016 Board of Trustees Meeting;
- b. Expenditures for January 2016;
- c. Board Consideration of Modifications to Mechanic I, Mechanic II and Shop Supervisor Job Descriptions.

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:

Manager Goodman provided written and verbal reports. The NPDES permit is up for renewal in March 2016. Staff and the MVCAC have been working with the State Water Resources Control Board on the provisions, but, the renewal looks very similar to the current permit. The federal permit renewal was recently posted in the federal register and is open for public comment. AMCA will be commenting on some of the changes and continuing to push for a federal fix with S1500 as an amendment to the Sportsmen's Act S659. The Annual MVCAC conference is being held in Sacramento and takes place at the end of this month. Work on the District Insectary is ongoing with plans being finalized from Darwin. Construction on the rooms should begin in the next couple of weeks with the hopes of everything being functional sometime in April. The District has been asked by the Mosquito Research Foundation (MRF) for a donation again this FY. We were waiting on cap and trade funding issues to be resolved, but we do not have a direction as of yet. The District will provide the Board with form 700 that is due by April 1st. With the Zika virus in the news lately staff has been interviewed by several media outlets to get the District's perspective and a fact sheet has been added to the District web site. In addition, the AMCA has put together a task force on which Lab Director, Paula Macedo will participate.

b. Staff Presentation:

District Biologist, Sarah Wheeler, gave a presentation on Zika virus. She discussed the origins, where it has spread and how it has been transmitted. The virus was first detected in Uganda in 1947, was found in Micronesia in 2007, French Polynesia in 2013-2014, and in South America, Central America, and the Caribbean in 2015. Transmission is primarily through a bite from an infected *Aedes* mosquito, *Aedes aegypti* and *Aedes albopictus*. Secondary mechanisms for transmission include from mother to child either at delivery or during pregnancy, blood transfusion, and sexual contact. Ms. Wheeler also reviewed the symptoms, treatment, prevention and the connection the virus has to complications including microcephaly and Guillan-Barre Syndrome. About 1 in 5 people infected with the virus will develop symptoms with the most common symptoms being fever, rash, joint pain and conjunctivitis. Currently there is no

vaccine and treatment is supportive care that includes rest, fluids, and medicines to reduce pain and fever, and protection from mosquito exposure to reduce the risk of further transmission. Infections confirmed in CA are travel-associated including the most recent one in our District announced by the Health department in Yolo County. Tips for prevention include avoiding being bitten by infected mosquitoes, consideration of postponing travel by pregnant women, and the Centers for Disease Control (CDC) has recommended those with pregnant partners exercise extra precautions to prevent person to person transmission. Lastly, Ms. Wheeler discussed the potential for spread in Sacramento and Yolo counties noting that the *Aedes* species, *aegypti* and *albopictus* have not yet been detected in either county. Aedes surveillance and a public information campaign are in place for the 2016 season.

b. Reports from District Departments:

Written reports were provided in the Board packet from each department. The department supervisors each gave an oral presentation and were available to answer any questions.

Lab/Surveillance: Lab Director, Paula Macedo provided a written report. Abundance numbers for mosquitoes seem to be following the 5 year average with an increase in *Anopheles freeborni* due to the recent warmer weather in the area. Tick and Lyme disease surveillance is ongoing. Of 52 pools of ticks collected in January, 2 were positive for *Borrelia burgdorferi* sensu strictu, the causative agent of Lyme disease-1 from East Lake Natoma and 1 from Cache Creek campground. Laboratory staff continues to prepare for the MVCAC conference and workshop to be held at the end of the month.

Ecological Management: Ecological Management Supervisor, Marty Scholl provided a written report. He gave brief report on Wetland, Regulatory, Environmental and Planning, and Agricultural programs. Ecological staff are reviewing new projects, pool notices, and preparing for mowing projects to begin next week.

Biological Control: Fisheries Supervisor, Tony Hedley provided a written report in the Board packet.

Larval and Adult Control: Program Coordinator, Marcia Reed provided a written report. Technicians are continuing to work on annual training as well as calibration and maintenance of their equipment to prepare for the coming season. In addition, they painted the interior of the administration building and are assisting with the insectary remodel. Tree holes have been treated and a second treatment may be needed if sufficient enough rainfall is not received this spring. Service requests are on the rise due to pools and increased mosquito activity from the warmer weather we are experiencing. Technicians are looking forward to attending conference and earning continuing education credits.

Public Outreach: Public Information Officer, Luz Maria Robles reviewed department activities including the 2016 Fight the Bite contest, recent media calls related to Zika virus, and the completion of two fact sheets on Zika virus that have been posted on the District web site home page.

4. BOARD REVIEW AND CONSIDERATION OF DISTRICT NPDES ANNUAL REPORT

Manager Goodman reviewed the report and was available to answer any questions. On a motion by Trustee Burnett, seconded by Trustee McGarvey, the Board voted to authorize staff to submit the 2015 NPDES Annual Report. The motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 1.

5. BOARD REVIEW AND CONSIDERATION OF \$265,000 TO FUND PUBLIC OUTREACH ADVERTISING PLAN FOR 2016 MOSQUITO SEASON

Manager Goodman reviewed the item and Public Information Officer, Luz Maria Robles was available to answer questions. On a motion by Trustee Hawkins, seconded by Trustee Denny, the Board voted to approve the 2016 Advertising Plan not to exceed \$265,000. The motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 1.

Before going into closed session President Eldridge acknowledged a gentleman who arrived after the regular public comment period and asked him if he would like to address the Board. He identified himself as a staff member from Assemblyman Ken Cooley’s office, who is interested in learning more about Zika virus. The Board thanked him for coming and offered him staff assistance any time he or the Assemblyman’s office would like information or a presentation from District staff on mosquito and vector control programs or activities. He thanked the Board for the offer and the information on Zika presented earlier in the meeting by Biologist Sarah Wheeler.

6. CLOSED SESSION-PUBLIC EMPLOYEE RECRUITMENT: ASSISTANT MANAGER

President Eldridge adjourned the regular meeting to go into closed session at 11:33 a.m.

The Board returned from closed session and re-opened the regular meeting at 11:53 a.m. with nothing to report from the closed session.

7. BOARD/STAFF REPORTS AND REQUESTS

AMCA President Stanton Cope, PhD will be visiting the District for a tour during the MVCAC conference.

The District is moving forward with an application for a Certificate of Authorization (COA) from the FAA for drone use in mosquito control activities.

Three full-time Field Technician positions were recently filled while interviews are being conducted for both the Seasonal Helper and Assistant Manager recruitments.

8. ADJOURNMENT

President Bruce Eldridge adjourned the meeting at 11:59 a.m.

* * * * *

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the February 16, 2016 meeting.

Gary Goodman, Manager

Approved as written and/or corrected by the Board of Trustees at the March 15, 2016 meeting.

Susan Maggy, Board Secretary

Mar 8, 2016

1:38 pm

Sacramento/Yolo M.V.C.D.

February 2016 Check Register

Check Number	Date	EFT #/ Vendor	Name	Discounts	Net Amount
49040	02/04/16	AIRGAS	Airgas Dry Ice	0.00	108.76
49041	02/04/16	ANDKO	ANDKO Building Maintenance Inc.	0.00	2777.94
49042	02/04/16	AT&T	AT&T	0.00	118.00
49043	02/04/16	BATTERIES	Batteries Plus	0.00	30.13
49044	02/04/16	BIO QUIP	Bio Quip Products	0.00	226.57
49045	02/04/16	CA CUST POWE	California Custom Trailers & Power Sport	0.00	170.08
49046	02/04/16	CCI	Consolidated Communications	0.00	2418.39
49047	02/04/16	COMP MEDICAL	Comprehensive Medical Inc.	0.00	65.00
49048	02/04/16	DARWIN CHAM	Darwin Chambers Company	0.00	107033.94
49049	02/04/16	G&K SERVICES	G&K Services	0.00	456.68
49050	02/04/16	GRAINGER	Grainger	0.00	119.74
49051	02/04/16	KIMBALL MID	Kimball Midwest	0.00	625.42
49052	02/04/16	LINA	Life Insurance Company of North America	0.00	1852.00
49053	02/04/16	MAITA CHEVY	MAITA CHEVROLET	0.00	61.23
49054	02/04/16	OMNI	Omni Bags Inc.	0.00	3600.00
49055	02/04/16	PARTS CENTER	The Parts Center	0.00	42.87
49056	02/04/16	PG&E	PG & E	0.00	2373.68
49057	02/04/16	RADIAL TIRE	Radial Tire of Elk Grove	0.00	170.84
49058	02/04/16	REPUBLIC	Republic Services #922	0.00	28.13
49059	02/04/16	RIVER CITY	River City Fire Equipment	0.00	1605.56
49060	02/04/16	SAFE SIDE	Safe Side Security	0.00	285.00
49061	02/04/16	SHERWIN WILL	SHERWIN WILLIAMS	0.00	557.13
49062	02/04/16	SMUD	S.M.U.D.	0.00	3193.08
49063	02/04/16	STERICYCLE	Stericycle, Inc.	0.00	69.40
49064	02/04/16	STERLING MAY	Sterling May Co.	0.00	90.30
49065	02/04/16	SUTTER HEAL	Sutter Medical Foundation	0.00	134.00
49066	02/04/16	TOP RANK	Top Rank Heating Air Conditioning Inc.	0.00	470.98
49067	02/04/16	TRICO	TriCo Welding Supplies	0.00	77.22
49068	02/04/16	UPS	UNITED PARCEL SERVICE	0.00	22.21
49069	02/04/16	US BANK	U.S. Bank	0.00	12164.19
49070	02/04/16	VDCI	Vector Disease Control International	0.00	30333.34
49071	02/04/16	VERIZON WIRE	Verizon Wireless	0.00	3681.62
49072	02/04/16	WASTE MGMT	Waste Management	0.00	355.63
49073	02/18/16	AT&T	AT&T	0.00	37.64
49074	02/18/16	BARTKIEWICZ	Bartkiewicz, Kronick & Shanahan	0.00	1389.74
49075	02/18/16	CAP. RUBBER	Capital Rubber Company	0.00	75.41
49076	02/18/16	DIGNITY SAC	Dignity Health Med Fdtn-Sacramento	0.00	125.00
49077	02/18/16	EDD	E.D.D. Attn: Cashier RB	0.00	8134.00
49078	02/18/16	EG WATER	Elk Grove Water District	0.00	391.49
49079	02/18/16	FERRELLGAS	Ferrellgas	0.00	579.67
49080	02/18/16	FISH & GAME	CDFW	0.00	122.75
49081	02/18/16	HUNT & SONS	Hunt & Sons, Inc.	0.00	2478.32
49082	02/18/16	INLAND	Inland Business Systems	0.00	576.06
49083	02/18/16	KAISER FHP	Kaiser Foundation Health Plan	0.00	3308.00
49084	02/18/16	KAISER FHP	Kaiser Foundation Health Plan	0.00	14120.45
49085	02/18/16	KAISER FHP	Kaiser Foundation Health Plan	0.00	21932.05
49086	02/18/16	KAISER FHP	Kaiser Foundation Health Plan	0.00	1323.20
49087	02/18/16	LIFE TECH	Life Technologies Corporation	0.00	4563.76
49088	02/18/16	NORTHERN SAF	Northern Safety Co.	0.00	302.48
49089	02/18/16	O'REILLY	O'Reilly Automotive Stores, Inc.	0.00	1099.42
49090	02/18/16	P&A ADMIN	P & A Administrative Services, Inc	0.00	112.50
49091	02/18/16	PARTS CENTER	The Parts Center	0.00	14.25

49092	02/18/16	PAULA MACED	Paula Macedo	0.00	45.10
49093	02/18/16	PG&E	PG & E	0.00	1365.98
49094	02/18/16	PREFERRED	Preferred Benefit Ins. Administrators	0.00	8027.52
49095	02/18/16	RADIAL TIRE	Radial Tire of Elk Grove	0.00	66.95
49096	02/18/16	RAININ INSTR	Rainin Instrument LLC	0.00	56.16
49097	02/18/16	SAC CO WASTE	County of Sacramento	0.00	25.00
49098	02/18/16	SAC UTILITY	Sacramento County Utilities	0.00	876.06
49099	02/18/16	STERLING MAY	Sterling May Co.	0.00	3731.42
49100	02/18/16	SUNRISE ENVI	Sunrise Enviromental	0.00	291.08
49101	02/18/16	US BANK EQUI	U.S. Bank Equipment Finance	0.00	570.35
49102	02/18/16	VERIZON CA	Verizon	0.00	65.16
49103	02/18/16	VWR	VWR International Inc.	0.00	994.81
49104	02/18/16	WESTERN HEAL	Western Health Advantage	0.00	5051.52
49105	02/18/16	WESTERN HEAL	Western Health Advantage	0.00	10105.22
49106	02/29/16	PAYROLL	CA Tax Deposit		12120.82
49107	02/29/16	CAL- DISB	California State Disbursement Unit	0.00	694.00
49108	02/29/16	CAL- DISB	California State Disbursement Unit	0.00	350.00
49109	02/29/16	LEADING EDGE	Leading Edge Associates, Inc.	0.00	35765.08
49110	02/29/16	NAT'L DEFERR	Nationwide Retirement Solutions	0.00	2125.00
49111	02/29/16	P.E.R.S. 170	Fiscal Services Division-Cashier Unit	0.00	62930.48
49112	02/29/16	PERS 457	Cal PERS 457 Plan	0.00	16503.43
49113	02/29/16	STATE WATER	State Water Resources Control Board	0.00	241.00

				Cash account Total	0.00 463655.38
					=====
				Report Total	0.00 463655.38

I hereby authorize the use of my signature plate on

the above listed warrants 49040-49113

Craig Burnett, Outgoing President of the Board*

**Signature plate for incoming President Bruce Eldridge on order, arrived in March*

MAILING ADDRESS

8631 BOND ROAD
ELK GROVE, CA 95624

1.800.429.1022
FIGHTtheBITE.net

Sacramento-Yolo Mosquito and Vector Control **STATEMENT OF FINANCIAL CONDITION**

Please Note: Due to the implementation of new accounting software and programs, we have not yet received our final month end General Ledger for February 2016 from Yolo County. These financial reports reflect the transactions of the District that were authorized.

Please contact Administrative Manager, Janna McLeod prior to the meeting if you have any questions or concerns on the financial reports.

Gary Goodman, MANAGER

2016 BOARD OF TRUSTEES

BRUCE ELDRIDGE
PRESIDENT, YOLO COUNTY

SEAN DENNY
VICE PRESIDENT, WOODLAND

SUSAN MAGGY
SECRETARY, SACRAMENTO COUNTY

CHRISTOPHER BARKER
DAVIS

CRAIG BURNETT
FOLSOM

RAUL DeANDA
WEST SACRAMENTO

FREDERICK GOETHEL
GALT

LYNDON HAWKINS
ELK GROVE

JAYNA KARPINSKI-COSTA
CITRUS HEIGHTS

GREGORY LANZARO
WINTERS

RAYMOND LATORRE
SACRAMENTO

ROBERT J. MCGARVEY
RANCHO CORDOVA

ROSEMARIE MOORE
ISLETON

Sacramento/Yolo M.V.C.D.

STATEMENT OF OPERATION

	<u>1 Month Ended</u> <u>February 29, 2016</u>	<u>8 Months Ended</u> <u>February 29, 2016</u>
Revenue		
REVENUE	1,656,499.94	6,807,671.35
TOTAL Revenue	<u>1,656,499.94</u>	<u>6,807,671.35</u>
Expenditures		
SALARIES/BENEFITS/WC		
SALARIES/BENEFITS/WC	483,719.55	4,584,440.18
TOTAL Salaries	<u>483,719.55</u>	<u>4,584,440.18</u>
OPERATIONAL		
LIABILITY INSURANCE	0.00	121,007.00
AUDITING/FISCAL	0.00	11,500.00
COMMUNICATIONS	2,456.03	21,882.17
PUBLIC INFORMATION	(8,214.51)	158,070.50
STRUCTURE & GROUNDS	5,062.07	33,796.60
MEMBER/TRAINING	14,095.86	62,980.98
DISTRICT OFFICE EXPENSES	892.36	7,621.24
PROFESSIONAL SERVICES	3,480.63	40,539.62
MATERIALS & SUPPLIES	659.14	4,677.58
RENTS & LEASES - Admin	0.00	4,626.85
SAFETY PROGRAM	180.03	1,720.11
UTILITIES	7,472.12	53,540.52
AIRCRAFT SERVICES	30,333.34	413,761.18
ECOLOGICAL MANAGEMENT	122.75	5,589.59
MICROBIAL	0.00	722,692.96
INSECT GROWTH REGULATOR	(74,861.30)	154,743.37
INSECTICIDES	(27,101.12)	597,038.05
FISHERIES	416.01	9,002.59
COMMUNICATIONS-Operations	3,893.25	33,647.88
GEOGRAPHIC INFO SYSTEMS	410.39	3,363.39
INFORMATION TECHNOLOGY	806.02	9,117.88
CONTROL OPERATIONS	482.93	12,087.72
VEHICLE PARTS/LABOR	6,826.88	98,370.29
LAB SERVICES	7,731.99	43,349.04
GAS & PETROLEUM	2,423.25	72,447.76
TOTAL Total Operational	<u>(22,431.88)</u>	<u>2,697,174.87</u>
TOTAL Expenditures	<u>461,287.67</u>	<u>7,281,615.05</u>
Program Revenue over Expenditures	<u>1,195,212.27</u>	<u>(473,943.70)</u>
Other Income & Expenses		
CAPITAL OUTLAY	0.00	0.00
DEPRECIATION	0.00	0.00
Amortization Expense	0.00	0.00
TOTAL Other Income & Expenses	<u>0.00</u>	<u>0.00</u>
	<u>1,195,212.27</u>	<u>(473,943.70)</u>
Capital Expenditures		
CAPITAL OUTLAY	39,496.50	283,158.36
RESEARCH FUND	0.00	0.00
BUILDING IMPROVEMENT	0.00	0.00
TOTAL Capital Expenditures	<u>39,496.50</u>	<u>283,158.36</u>
Excess of Revenue over Expenditures	<u>1,155,715.77</u>	<u>(757,102.06)</u>

Sacramento/Yolo M.V.C.D.

STATEMENT OF OPERATION

	8 Months Ended February 29, 2016	Annual Budget	Unused
Revenue			
REVENUE	6,807,671.35	11,595,834.39	4,788,163.04
TOTAL Revenue	<u>6,807,671.35</u>	<u>11,595,834.39</u>	<u>4,788,163.04</u>
Expenditures			
SALARIES/BENEFITS/WC			
SALARIES/BENEFITS/WC	4,584,440.18	7,123,442.62	2,539,002.44
TOTAL Salaries	<u>4,584,440.18</u>	<u>7,123,442.62</u>	<u>2,539,002.44</u>
OPERATIONAL			
LIABILITY INSURANCE	121,007.00	126,884.00	5,877.00
AUDITING/FISCAL	11,500.00	12,500.00	1,000.00
COMMUNICATIONS	21,882.17	40,000.00	18,117.83
PUBLIC INFORMATION	158,070.50	386,500.00	228,429.50
STRUCTURE & GROUNDS	33,796.60	61,000.00	27,203.40
MEMBER/TRAINING	62,980.98	88,000.00	25,019.02
DISTRICT OFFICE EXPENSES	7,621.24	15,000.00	7,378.76
PROFESSIONAL SERVICES	40,539.62	99,000.00	58,460.38
MATERIALS & SUPPLIES	4,677.58	10,000.00	5,322.42
RENTS & LEASES - Admin	4,626.85	8,250.00	3,623.15
SAFETY PROGRAM	1,720.11	5,000.00	3,279.89
UTILITIES	53,540.52	87,550.00	34,009.48
AIRCRAFT SERVICES	413,761.18	606,800.00	193,038.82
ECOLOGICAL MANAGEMENT	5,589.59	23,400.00	17,810.41
MICROBIAL	722,692.96	1,100,000.00	377,307.04
INSECT GROWTH REGULATOR	154,743.37	512,000.00	357,256.63
INSECTICIDES	597,038.05	680,000.00	82,961.95
FISHERIES	9,002.59	22,950.00	13,947.41
COMMUNICATIONS-Operations	33,647.88	44,000.00	10,352.12
GEOGRAPHIC INFO SYSTEMS	3,363.39	12,000.00	8,636.61
INFORMATION TECHNOLOGY	9,117.88	32,000.00	22,882.12
CONTROL OPERATIONS	12,087.72	21,000.00	8,912.28
VEHICLE PARTS/LABOR	98,370.29	132,000.00	33,629.71
LAB SERVICES	43,349.04	125,360.00	82,010.96
GAS & PETROLEUM	72,447.76	165,000.00	92,552.24
TOTAL Total Operational	<u>2,697,174.87</u>	<u>4,416,194.00</u>	<u>1,719,019.13</u>
TOTAL Expenditures	<u>7,281,615.05</u>	<u>11,539,636.62</u>	<u>4,258,021.57</u>
Program Revenue over Expenditures	<u>(473,943.70)</u>	<u>56,197.77</u>	<u>530,141.47</u>
Other Income & Expenses			
CAPITAL OUTLAY	0.00	0.00	0.00
DEPRECIATION	0.00	0.00	0.00
Amortization Expense	0.00	0.00	0.00
TOTAL Other Income & Expenses	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	<u>(473,943.70)</u>	<u>56,197.77</u>	<u>530,141.47</u>
Capital Expenditures			
CAPITAL OUTLAY	283,158.36	592,500.00	309,341.64
RESEARCH FUND	0.00	75,000.00	75,000.00
BUILDING IMPROVEMENT	0.00	100,000.00	100,000.00
TOTAL Capital Expenditures	<u>283,158.36</u>	<u>767,500.00</u>	<u>484,341.64</u>
Excess of Revenue over Expenditures	<u>(757,102.06)</u>	<u>(711,302.23)</u>	<u>45,799.83</u>

MAILING ADDRESS

SACRAMENTO COUNTY
 8631 BOND ROAD
 ELK GROVE, CA 95624

YOLO COUNTY
 1234 FORTNA AVENUE
 WOODLAND, CA 95695

1.800.429.1022
FIGHTtheBITE.net

**Sacramento-Yolo Mosquito and Vector Control District
 Investment Report**

The District investment policy authorizes District funds and monies to be invested in only one or a combination of the following institutions and investment types:

- A. Yolo County Treasurer Investment Pool
- B. State Treasurer's Local Agency Investment Fund (L.A.I.F.)
- C. Member and Property Contingency Fund deposits with the Vector Control Joint Powers Agency (VCJPA)
- D. Prefunding of Other Post Employment Benefits (OPEB) through California Public Employer's Retiree Benefit Trust Program (CERBT)

As the District receives revenue from taxes and other resources they are deposited with the Yolo County Treasurer. The following is the interest earnings, fund balances and investments of the District for the quarter ending **December 31, 2015**.

Gary Goodman, MANAGER

2015 BOARD OF TRUSTEES

CHRISTOPHER BARKER
 DAVIS

CRAIG R. BURNETT
 FOLSOM

RAUL DeANDA
 WEST SACRAMENTO

SEAN DENNY
 WOODLAND

BRUCE ELDRIDGE
 YOLO COUNTY

FREDERICK GOETHEL
 GALT

LYNDON HAWKINS
 ELK GROVE

JAYNA KARPINSKI-COSTA
 CITRUS HEIGHTS

GREGORY C. LANZARO
 WINTERS

RAYMOND LaTORRE
 SACRAMENTO

SUSAN MAGGY
 SACRAMENTO COUNTY

ROBERT J. MCGARVEY
 RANCHO CORDOVA

ROSEMARIE MOORE
 ISLETON

Institution		Earnings	Total as of 21/31/15
Yolo County Treasurer Investment Pool	Not Available*	\$0.00*	\$5,778,170.80
L.A.I.F.	0.37%	\$4,072.17	\$2,994,455.92
VCJPA-Member Contingency Fund	1.27%	(\$3,184.00)	\$1,003,447.00
VCJPA-Property Contingency Fund	1.27%	(\$390.00)	\$101,503.00
CERBT-Strategy 3		\$6,956.27	\$1,506,766.22
		District Total:	\$11,384,342.94

* See attached letters from Yolo County



County of Yolo

www.yolocounty.org

HOWARD H. NEWENS, CIA, CPA
Chief Financial Officer

DOUGLAS K. OLANDER, CPA
Assistant Chief Financial Officer

DEPARTMENT OF FINANCIAL SERVICES

625 Court Street, Room 102
PO BOX 1268
WOODLAND, CA 95776
PHONE: (530) 666-8190
FAX: (530) 666-8215
DFS @ yolocounty.org

- Financial Strategy Leadership
- Budget & Financial Planning
- Treasury & Finance
- Tax & Fee Collection
- Financial Systems Oversight
- Accounting & Financial Reporting
- Internal Audit
- Procurement

March 8, 2016

Mr. Gary Goodman
Sacramento-Yolo Mosquito Abatement District
8631 Bond Road
Elk Grove, CA 95624

Dear Mr. Goodman:

Listed below for your information and that of the Board of Directors, is data pertaining to interest earnings, fund balances and investments of the District as of the end of the quarter on December 31, 2015. The Yolo County Treasurer's Investment Report is available electronically. Should you or the Board wish additional information or have any questions, please let me know.

<u>PERIOD</u>	<u>YOLO COUNTY</u>	<u>LAIF</u>	<u>EARNINGS</u>
Quarter ending December 31, 2015:	Not Available*		\$ 0.00*
		0.37%	\$ 4,072.17

Placement of Funds as of December 31, 2015:

Yolo County Treasurer's Pool (Fund 6953)	\$ 5,778,170.80
LAIF	<u>2,994,455.92</u>
Total	\$ 8,772,626.72

*Due to the implementation of the new INFOR financial system on November 2, 2015, the County is still in the process of calculating the interest apportionment for the quarter ended December 31, 2015. The apportionments are expected to be completed by March 31, 2016.

Sincerely,

Chad Rinde, CPA
Accounting Manager, Treasury & Finance



County of Yolo

www.yolocounty.org

HOWARD H. NEWENS, CIA, CPA

AUDITOR-CONTROLLER and
TREASURER-TAX COLLECTOR

AUDITOR-CONTROLLER

PO BOX 1268
WOODLAND, CA 95776
PHONE: (530) 666-8190
FAX: (530) 666-8215

TREASURER-TAX COLLECTOR

PO BOX 1995
WOODLAND, CA 95776
PHONE: (530) 666-8625
FAX: (530) 666-8708

TO: Depositors in the County Treasury
FROM: Chad Rinde, Accounting Manager, Finance & Treasury
COPY: Howard Newens, CFO
DATE: February 12, 2016
SUBJECT: December 31 Interest Apportionment

Delay in Apportionment for Quarter ended December 31

As part of the County's transition to the new INFOR financial system on November 2, 2015, the County anticipates completing the interest apportionment for the most recent quarter (December 31) later than usual. The reason for the delay is to allow the opportunity to perform a through validation of all of the converted data from the previous GENLED system as well as to ensure that the reconciliations to the bank and investment accounts are fully completed. This will ensure that each depositor receives their fair share of the apportionment based on their average daily cash balance in the new financial system. We are hoping to complete the apportionment by March 31, 2016.

Negative Apportionment

The County utilizes a market value methodology in calculating the amount of investment gains/losses that are available for apportionment and deducts administrative expense allowable by California Government Code to determine the net apportionment to be distributed. This market value approach has allowed the County to not need to calculate and provide a market value adjustment at the end of the year to all depositors in order to comply with Governmental Accounting Standard No. 31.

Due to using this market value methodology, the apportionment is subject to fluctuations in the investment markets which can result in higher or lower allocations that are generally smoothed over time. As a result of concerns in China and the global economy leading up to the quarter ended September 30, 2015, this caused investors to move funds into the bond markets (increased demand for bonds) which lead to higher than normal gains and an higher apportionment for that quarter.

Toward the end of the December, 2015, the Federal Reserve approved an increase in the federal funds target rate which was the first increase in rates in seven years. This increase in interest rate lowered the market value of previous outstanding bonds (such as those owned in the County treasury pool) as an investor could then invest available funds at a higher rate than older bonds so the resell value of older bonds subsequently is lowered.

As a result, the County anticipates distributing a negative interest apportionment for the Quarter ended December 31, 2015 which will reduce the some of the revenue allocated from the apportionment in September.

The county is reviewing the selected methodology for apportionment to ensure that the approach toward the allocation of interest is the best method of the ongoing operations of the pool. We are continuing to monitor the state of the investment markets working close with our investment advisor, Public Financial Management (PFM).

Please let me know if you have any questions or concerns.

Chad Rinde

(530) 666-8050

Chad.rinde@yolocounty.org

Vector Control Joint Powers Agency

~ Member Contingency Fund ~

For the Quarter Ended December 31, 2015

Member District:	Balance at Beginning of Quarter	Contributions	(Withdrawals)	Interest Earned	Allocated Admin.	Balance at End of Quarter
Alameda County	\$189,010	\$17,528		(\$758)	(\$6)	\$205,774
Burney Basin	29,013		(330)	(111)	(1)	28,571
Butte County	262,314			(1,005)	(8)	261,301
Coachella Valley	817,940			(3,133)	(24)	814,783
Coalinga-Huron	3,555			(14)	0	3,541
Colusa	53,584	3,826		(213)	(2)	57,195
Compton Creek	54,846	1,613		(213)	(2)	56,244
Consolidated	366,546			(1,404)	(11)	365,131
Contra Costa	844,921			(3,236)	(25)	841,660
Durham	18	1,704		(3)	(1)	1,718
Fresno	201,492			(772)	(6)	200,714
Glenn County	35,825			(137)	(1)	35,687
Greater Los Angeles	676,147	121,523		(2,823)	(21)	794,826
Lake County	76,837	17,281		(327)	(2)	93,789
Los Angeles County West	529,320	69,197		(2,160)	(16)	596,341
Marin-Sonoma	480,823			(1,842)	(14)	478,967
Napa County	487,887	18,652		(1,905)	(14)	504,620
No Salinas Valley	467,517	9,543		(1,809)	(14)	475,237
Northwest	692,895	24,926		(2,702)	(20)	715,099
Orange County	326,929			(1,252)	(9)	325,668
Oroville	9,106	1,572		(38)	0	10,640
Pine Grove	22,279	600		(86)	(1)	22,792
Placer	102,047	20,156		(429)	(3)	121,771
Sacramento-Yolo	655,952	350,703		(3,184)	(24)	1,003,447
San Joaquin County	602,288	17,072		(2,340)	(18)	617,002
San Mateo County	336,363	41,538		(1,368)	(10)	376,523
Santa Barbara County	50,257			(193)	(1)	50,063
Shasta	413,524			(1,584)	(12)	411,928
Sutter-Yuba	266,401			(1,020)	(8)	265,373
Tehama County	223,095			(855)	(6)	222,234
Turlock	371,286		(100,000)	(1,231)	(9)	270,046
West Valley	368,713	19,379		(1,448)	(11)	386,632
Total	\$10,018,730	\$736,813	(\$100,330)	(\$39,596)	(\$300)	\$10,615,317

Note:

Yield to maturity rate on the VCJPA portfolio is 1.27% as of the above date. As required by GASB 31, the allocated interest shown also reflects market value changes to the securities held in the portfolio. Therefore, the actual interest allocated to this fund, and all program year funds, may or may not equal the yield to maturity rate from quarter to quarter. However, the average overall allocated interest, over the life of this fund, should provide a close approximation.

Vector Control Joint Powers Agency

~ Property Contingency Fund ~

For the Quarter Ended December 31, 2015

<u>Member District:</u>	Balance at Beginning of Quarter	Contributions	(Withdrawals)	Interest Earned	Balance at End of Quarter
Alameda County	\$49,897			(\$191)	\$49,706
Burney Basin	14,404			(55)	14,349
Butte County	49,232			(189)	49,043
Coachella Valley	52,503			(201)	52,302
Coalinga-Huron	1,470			(6)	1,464
Colusa	6,426			(25)	6,401
Compton Creek	3,674			(14)	3,660
Consolidated	46,212			(177)	46,035
Contra Costa	66,696			(255)	66,441
Delta	0			0	0
Durham	0			0	0
Fresno	25,606			(98)	25,508
Glenn County	2,923			(11)	2,912
Greater Los Angeles	50,994			(195)	50,799
Kings	0			0	0
Lake County .	0			0	0
Los Angeles County	0			0	0
Marin-Sonoma	58,284			(223)	58,061
Napa County	823,370			(3,153)	820,217
No Salinas Valley	25,922			(99)	25,823
Northwest	17,040			(65)	16,975
Orange County	72,515			(278)	72,237
Oroville	0			0	0
Pine Grove	2,501			(10)	2,491
Placer	582			(2)	580
Sacramento-Yolo	101,893			(390)	101,503
San Gabriel Valley	96,204			(369)	95,835
San Joaquin County	91,025			(349)	90,676
San Mateo County	36,820			(141)	36,679
Santa Barbara County	1,703			(7)	1,696
Shasta	30,170			(116)	30,054
Sutter-Yuba	61,242			(235)	61,007
Tehama County	22,332			(86)	22,246
Turlock	0			0	0
West Valley	69,969			(268)	69,701
Total	\$1,881,609	\$0	\$0	(\$7,208)	\$1,874,401

Note:

Yield to maturity rate on the VCJPA portfolio is 1.27% as of the above date. As required by GASB 31, the allocated interest shown also reflects market value changes to the securities held in the portfolio. Therefore, the actual interest allocated to this fund, and all program year funds, may or may not equal the yield to maturity rate from quarter to quarter. However, the average overall allocated interest, over the life of this fund, should provide a close approximation.

Sacramento-Yolo Mosquito & Vector Control District
 CERBT Strategy 3
 Entity #: SKB8-1375523307
 Quarter Ended December 31, 2015



Market Value Summary:

	QTD Current Period	Fiscal Year to Date
Beginning Balance	\$1,500,134.78	\$1,544,506.32
Contribution	0.00	0.00
Distribution	0.00	0.00
Transfer In	0.00	0.00
Transfer Out	0.00	0.00
Investment Earnings	6,956.27	(37,088.73)
Admin Expense	(187.64)	(376.26)
Investment Expense	(137.19)	(275.11)
Other	0.00	0.00
Ending Balance	\$1,506,766.22	\$1,506,766.22
YTD Accrual	0.00	0.00
Grand Total	\$1,506,766.22	\$1,506,766.22

Unit Value Summary:

	QTD Current Period	Fiscal Year to Date
Beginning Units	123,845.370	123,845.370
Unit Purchases from Contributions	0.000	0.000
Unit Sales for Withdrawals	0.000	0.000
Unit Transfer In	0.000	0.000
Unit Transfer Out	0.000	0.000
Ending Units	123,845.370	123,845.370
Period Beginning Unit Value	12.112966	12.471247
Period Ending Unit Value	12.166512	12.166512

Please note that the Grand Total is your actual fund account balance at the end of the period, including all accrued Contributions and Distributions. Please review your statement promptly. All information contained in your statement will be considered true and accurate unless you contact us within 30 days of receipt of this statement. If you have questions about the validity of this information, please contact CERBT4U@calpers.ca.gov.

Statement of Transaction Detail for the Quarter Ending 12/31/2015
Sacramento-Yolo Mosquito & Vector Control District
Entity #: SKB8-1375523307



No Transactions for the Period

Client Contact:
CERBT4U@CalPERS.ca.gov

1. Items for Approval by General Consent:

d. Adoption of Resolution Authorizing Renewal of Contract with County of Sacramento, Division of Public Health.

Staff Report

The District has had a long standing relationship with the County of Sacramento's Public Health Lab which allows us to utilize their space for our mosquito pool testing. The County of Sacramento requires a new resolution be adopted every year to renew this agreement. There are no changes in this document from last year's agreement.

“BOARD OF DIRECTORS RESOLUTION/SIGNATURE AUTHORITY”
RESOLUTION #: 03-15-16

WHEREAS, a proposed contract with the COUNTY OF SACRAMENTO for the deliver of services by this organization has been determined to be in the interest of 1. (SEE LIST ON ATTACHED SHEET) by its duly constituted Board of Directors:

NOW THEREFORE, BE IT RESOLVED: That the persons named below are authorized to negotiate and execute, on behalf of this corporation, said contract and any and all documents pertaining to this contract, and to submit claims for reimbursement and other financial reports by said contract;

AND FURTHERMORE: That the signatures recorded below are the true and correct signatures of the designated individuals.

AUTHORIZED TO EXECUTE CONTRACT:

2. Manager
Title

3. Gary Goodman
Name

4.
Signature

AUTHORIZED TO SUBMIT CLAIMS:

5. Manager
Title

6. Gary Goodman
Name

7.
Signature

CERTIFICATION

I certify that I am the duly qualified and acting Secretary of 8. Sacramento-Yolo M.V.C. D., A duly organized and existing California 9. Special District (corporation / joint venture). The foregoing is a true copy of a resolution adopted by the Board of Directors of said corporation/joint venture, at a meeting legally held on 10. March 15, 2016, and entered into the minutes of such meeting, and is now in full force and effect.

11.
Date

12. Bruce Eldridge, Board President
Name (Type or Print)

13.
Signature

Contractor: Sacramento – Yolo Mosquito & Vector Control District Contract No.:

SERVICE DELIVERY ADDRESS LIST

Facility Name	Address	City/State/Zip	Area Code/Phone #
Public Health Laboratory	4600 Broadway, Ste 2300	Sacramento, CA 95820	916-874-9231

Sacramento-Yolo Mosquito and Vector Control District

March 15, 2016 Board Meeting

3. Reports to the Board

a. Manager's Report

b. Reports from MVCAC Annual Conference Attendees

c. Reports from District Departments

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

a. Manager's Report

Please remember to turn in your Form 700 pursuant to the District Conflict of Interest Code.

MVCAC Legislative Day will be held on April 6, 2016. AMCA Legislative Day will be held on May 9-11.

MVCAC leadership met with the CDFW during the annual conference on implementation of AB 896 ("Wildlife Management Areas: Mosquito Abatement"). Both parties will be putting together a list of projects statewide to promote as a pilot project moving forward. The hope would be to show success within the partnership and seek funding for future projects.

The City of Elk Grove has forwarded language to the District regarding the bike trail on the west side of the property. Counsel is looking the paperwork over to determine if any liability issues arise.

The insectary project is underway and we will be looking for contractors to do the prep work in the lab building. We should be bringing options to the Board next month if needed.

The State Water Resources Control Board approved the renewal of the Vector Control NPDES permit on March 1st. The District has filed the NOI with the SWRCB.

District staff has completed interviews to fill current vacancies (fulltime and seasonal) within various departments. The seasonal staff will begin in April.

Janna McLeod attended the Vector Control Joint Powers Agency (VCJPA) workshop in Oakland. Our VCJPA continues to be in a good financial position overall. The Safety and Loss program launched an update to the web site for risk control resources, webinars, streaming videos and more. Strategic planning discussed for this year included expanding training and webinar topics that are more relevant to control and surveillance activities as well as investigating the establishment of a Health program.

b. Reports from MVCAC Annual Conference Attendees

c. District Departments

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

LABORATORY

Monthly Report for March 2016 Board Meeting

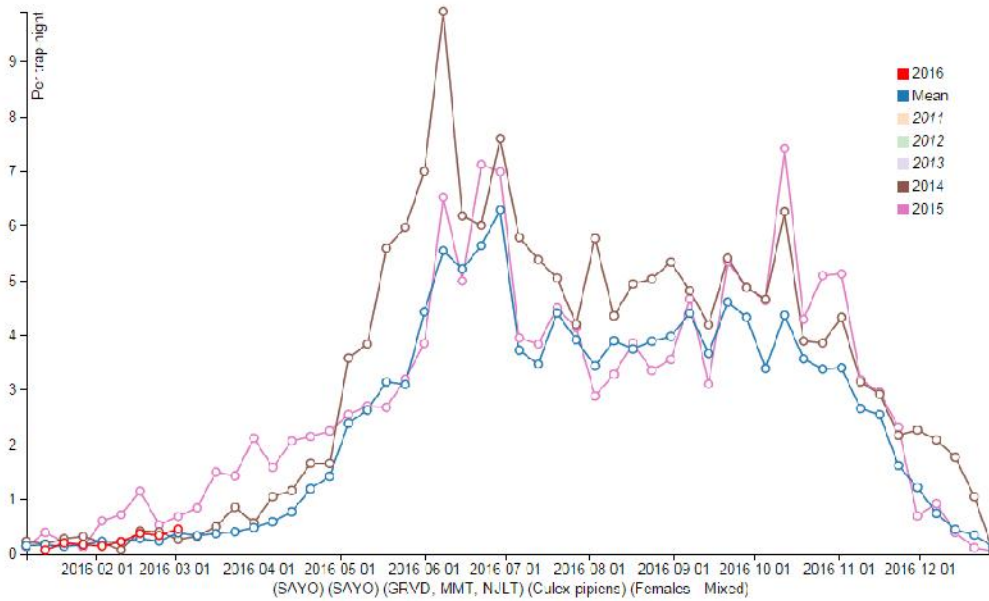
Insectary:

Colonies maintained: *Culex tarsalis* Bakersfield from CDC (susceptible)
Cx. quinquefasciatus Cq1 (susceptible)
Cx. pipiens from Capitol Park (autogenous)

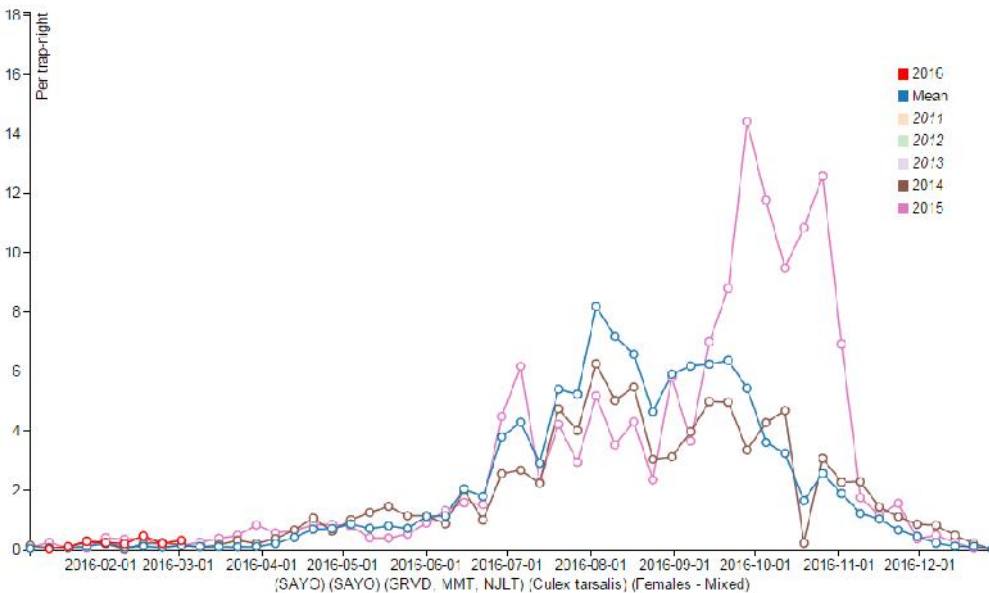
Surveillance:

- **Weekly collections** – American Light traps, Mosquito Magnet traps, and Gravid traps. Abundance of *Cx. pipiens* are below last year's but right at average.

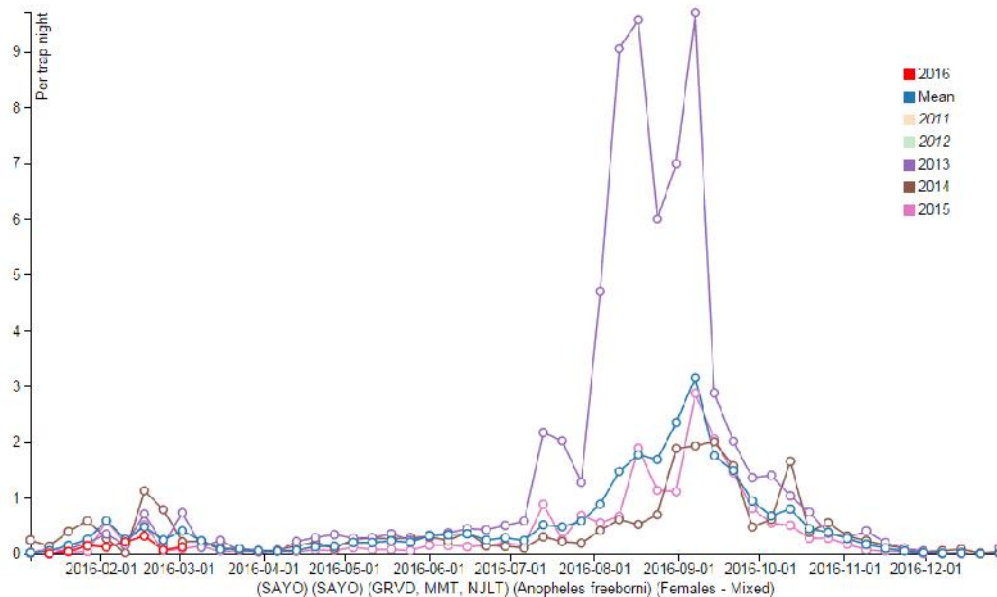
Culex pipiens abundance:



Culex tarsalis abundance:

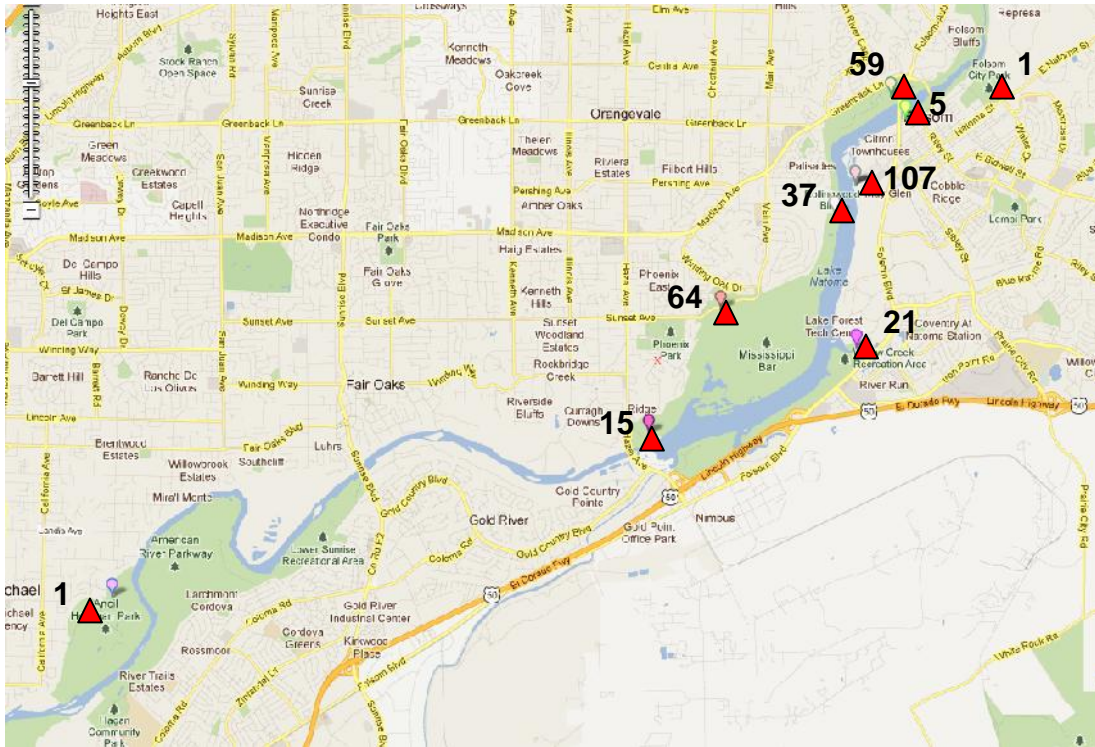


Anopheles freeborni abundance:



- **Encephalitis virus surveillance (EVS)** – We have concluded virus testing for the season.
- **Dead bird surveillance** – We have concluded the dead bird surveillance for the season and will resume collections, sampling, and testing when the hotline resumes in April 2016.
- **Sentinel chicken surveillance** – We concluded our sentinel chicken surveillance and should resume after we receive new chickens in April.
- **Exotic/Invasive species surveillance** – We concluded the invasive species surveillance for the season and should resume by the end of March.
- **Tick and Lyme disease surveillance** – In February, 328 ticks were collected from the 11 regular surveillance locations. Samples for February have not been tested yet. In 2015, 267 ticks had been collected in February from the same sites. The figures below show the number of ticks collected from each site.

Regular tick surveillance locations in Sacramento County:



Yolo County (Cache Creek Regional Park - campground and trail):



ECOLOGICAL MANAGEMENT DEPARTMENT
Monthly Report for the March 2016 Board Meeting

Wetland Program / Fall Flooding

Tyler Island LLC Duck Club: The duck club has presented the District with a preliminary 2016 wetland management schedule. Staff has engaged other agency stakeholders to discuss the plan and will be scheduling a spring meeting with the club to discuss irrigations and fall flooding.

Regulatory, Environmental and Planning Program

CDFW Stream Bed Alteration Agreement: Laboratory and Eco Departmental staff will be meeting with CDFW staff early in the month to discuss streambed maintenance activities and future permitting options.

Drone Authorization: Staff has begun researching District options for potential drone use for surveillance and control operations in rural areas.

Small subdivision plans continue to be reviewed by departmental staff as they become available. Any potential issues are discussed with the appropriate project agencies or proponents if applicable.

Pool Program

Staff has begun assisting control operations with pool access and enforcement notices.

Agricultural Program

Staff begun working with a local dairy in Galt to recover all irrigation water and prevent off site flows that produce mosquitoes on multiple properties prior to eventually flowing into Dry Creek.

MVCAC

Staff presented at the Annual MVCAC Conference on Impacts Due to Drought Conditions in 2015, which received very positive remarks. Staff has also been asked by the Certification and Training Committee to produce a one hour Continuing Education(CE) DVD training on Environmental Considerations for Mosquito Control.

**Biological Control
Monthly Report for March 2016 Board Meeting**

Projects

Performed monthly safety inspections of fire extinguishers, first aid kits and vehicles.
 Bi-weekly Supervisors meetings.
 Held informal training sessions on safety minutes and target solutions training.
 Fisheries staff performed daily activities. (Inside tank cleaning procedures, Koi pond cleaning, setting up pumps, pond aerators, feeding fish)
 Fisheries pond dye study continues to be monitored with weekly pond turbidity tests.
 In the month of February the Fisheries staff focuses on getting the supplies we need for the upcoming season and preparing for our Fisheries Disease Workshop.
 February was busy with service requests and fish usage. There were 394 actions and 50 lbs of fish used in sources as part of our IPM program.
 I spent some time working on all the logistics for our Fisheries Workshop. (dissection kits, making workbooks, getting meals organized....)

General Facility Maintenance

Maintaining the Koi pond, cleaning the skimmers and back flushing the filters as required to maintain proper filter pressure.
 Taking down cobwebs and cleaning old shop.
 Herbiciding around Bond road facility
 Cleaning gutters and sidewalks.

General Fisheries Maintenance

Prepared purchase order requests and ordered supplies as needed.
 Checking water quality in the recirculation tanks and making water changes as needed.
 Sorting guppy fry from adults in the breeder tank and sorting nicely colored juveniles from plain colored guppies to add to the breeder tank.
 Maintaining clean work areas, AMT's and fisheries vehicles.

Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
\$22,950.00	\$9,463.30	\$ 13,486.70	41%

Log of Treatment Applied

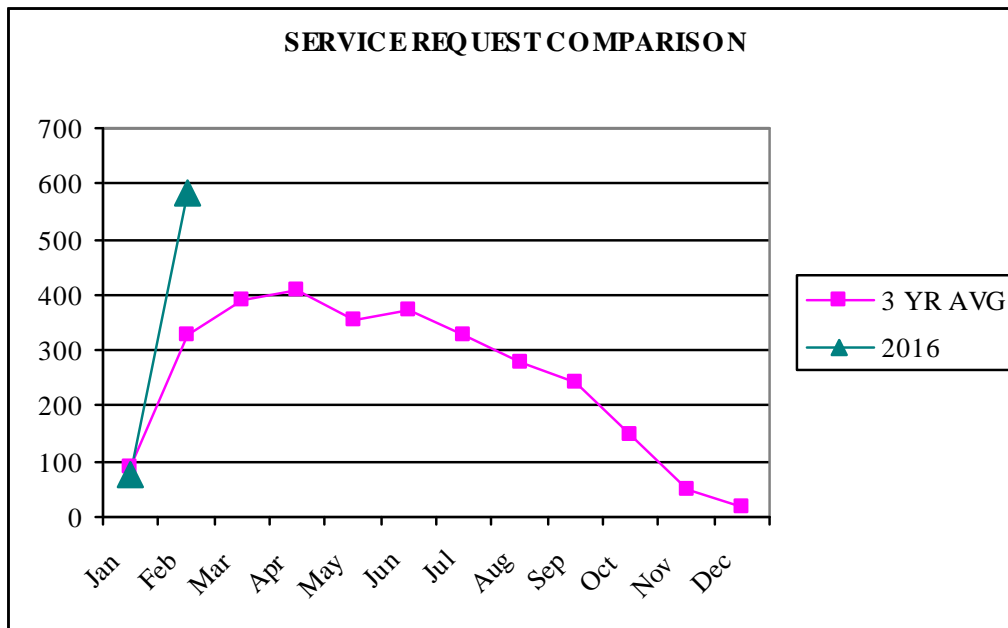
<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Applic Rate</u>	<u>Treatments</u>
Mosquitofish	50.24 lbs	103.07 Acre	.48 lb/acre	394 times
Guppies	0 lbs	0 sqft	0 lb/acre	0 times

Mosquitofish Supplied to the Operators Tanks

Elk Grove Facility	60 lbs.
Woodland Facility	18 lbs.

CONTROL OPERATIONS Monthly Report for March 2016 Board Meeting

Spring sources are being monitored and treated as weather allows. Brush cutting projects are also being completed as weather permits. Woodland staff is working on the water soluble packets for use this season and the catch basin crew is continuing their work on their maps. Control technicians have completed the calibration of their equipment. ULV truck, quad and backpack calibrations will be done next. As seen in the graph below, service requests are higher than the three year average. The increase in service requests is due to the two weeks of warm weather which brought out the *Anopheles sp.* mosquitoes at the same time that the Zika virus was in the news. The over-wintering *Anopheles* become active occasionally during the winter-time on warm days and will bite in the warm daylight hours and thus many service requests were generated by concerned residents. There are three new fulltime control technicians, one in Woodland, one in the North Sacramento crew and one in the South Sacramento crew. In addition, interviews have been completed for the seasonal staff for the upcoming season. Staff is wrapping up their online training and will be attending the continuing education in Yuba City on March 16th, followed by our annual pesticide training on March 17th.



Larvicide Applications thru February 28/29th				
<u>Locations/Roles</u>	<u>2016</u>		<u>2015</u>	
	<u>Treatments</u>	<u>Acres</u>	<u>Treatments</u>	<u>Acres</u>
Sacramento County	67	2	202	74
Sac County Aerial	0 orders, 0 sources	0	0 orders, 0 sources	0
Yolo County	10	10	24	16
Yolo County Aerial	0 orders, 0 sources	0	0 orders, 0 sources	0
CB Treated	55	--	29	--
CB Inspected -not treated	141	--	188	--
Pools Treated	132	--	152	--
Pools Inspected (not treated)	275	--	327	--

Aerial Adulticide Summary thru February 28/29th				
<u>County</u>	<u>2016</u>		<u>2015</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 February 29th, 2016

compared to: 2015

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 has not used any of their 120,000 acre commitment yet this year.

PUBLIC INFORMATION AND EDUCATION
Monthly Report for March 2016 Board Meeting

February Projects

- Drafted a preliminary advertising plan for upcoming 2016 season
- Meetings with vendors to review and finalize proposals for new advertising season
- Began gathering information from media vendors to place ad buys
- Scheduled annual presentations with city councils
- Coordinated meetings with elected officials and county health officers
- Finalized MVCAC presentation as part of the 2016 conference
- Created a Zika virus fact sheet and information for the website
- Responded to all media inquiries relating to Zika
- Updated presentation for staff event training
- Coordination with print agency to disseminate 2016 contest entries to the schools
- Solicited and coordinated classroom presentations
- Planned and coordinated with staff regarding classroom presentations
- Promotion of the 2016 Fight the Bite contest at all classroom presentations
- Update classroom and community presentations
- Prepared a list of community outreach events for 2016 season
- Signed up and registered for upcoming events
- Initial preparations to ensure staffing at community events
- Work with other local PIO's to disseminate mosquito prevention tips
- Participated in the monthly WNV Educator Conference Call
- Promotion of mosquito related stories on Facebook and Twitter
- Ongoing training bulletins
- Organize all outreach materials and coordinate winter activities with District staff

February presentations

- School presentations: Carroll Elementary (2)
- School presentation: Albert Einstein Middle school (2)

Total reach: 192

March projects

- Coordination with the MVCAC PR committee to review and update materials for Leg Day
- Review Spanish language CDPH material on Zika and head lice
- Meetings with media vendors to discuss proposals for new advertising season
- Finalize advertising plan for upcoming season
- Begin securing media contracts for upcoming season
- Work with social media firm to begin developing a strategy to increase visibility of our District activities as part of our social marketing campaign
- Compile and summarize media advertising and outreach information for the annual report
- Compile each district departments information for the annual report
- Ongoing coordination and scheduling of all the Fight the Bite classrooms presentations

- General promotion of the contest amongst past participants, after school programs and Parks and Recreation Departments
- Promotion of the Fight the Bite contest at all classroom presentations to increase participation
- Data input of contest entries as they are submitted
- Coordination with graphic design artist and District departments for annual report
- Schedule and coordinate meetings with local elected officials
- Meetings with Sacramento and Yolo County health officers
- Continued registration and processing of payments for upcoming events
- Summarize media advertising and outreach information for the annual report
- Compile each district departments information for the annual report
- Coordination with supervisors and staff who will be working the events
- Re-order materials needed for events and presentations
- Finalize list of 2016 community outreach events
- Prepare a list of staff who will work community events
- Develop staff schedules for upcoming events
- Coordination with various agencies for materials and repellent donation and pick ups
- Continuing education training videos and online webinars
- Event training to new staff that will work outreach events
- Annual Pesticide Training
- CPR Training
- Continuing Education live session
- Interviews for seasonal assistant
- Participate in the monthly WNV educator call
- Work with other local PIO's to disseminate mosquito prevention tips
- Promotion of mosquito related stories on Facebook and Twitter
- Organization of all outreach materials
- Promotion of interesting mosquito related material on social media

March scheduled presentations

- School presentations: Crocker Riverside elementary (2)
- School presentation: Taylor Street Elementary (2)
- School presentation: Martin Luther King Jr. (2)
- School presentation: Donner Elementary (2)

Total presentations: 8

Sacramento-Yolo Mosquito and Vector Control District

March 15, 2016 Board Meeting

4. Board Review and Consideration of Donation to the Mosquito Research Foundation in the Amount of \$50,000

Staff Report:

The District has a strong history of supporting the work done by the Mosquito Research Foundation to further the study of vectors and vector borne diseases. The District's annual budget has \$75,000 allocated for research. I have included a request by the MRF president, Craig Downs, requesting funds to support their program.

Recommendation:

Authorize the Donation to the Mosquito Research Foundation in the Amount of \$50,000

The Mosquito Research Foundation (<http://www.mosquitoresearch.org/>) received thirty-nine proposals for funding this year.

The following are proposals the MRF is in the process of funding and we are seeking additional funds to help us fully fund all of these proposals.

Please consider a grant to the Mosquito Research Foundation (grant agreements attached)

1. Biorational Control of Mosquitoes with Blends of Multiple Entomopathogenic Fungi

Principal Investigator: Willaim E. Walton

Sponsoring Organization: University of California, Riverside

The goals of this project are to investigate the efficacy of multiple entomopathogenic fungi as biological control agents against mosquitoes in laboratory and field conditions. We propose (i) to investigate the virulence and infectivity of blends of two commercially available formulations of fungal species against mosquitoes in laboratory bioassays and (ii) to assess the efficacy and persistence of fungal blends against mosquitoes under field conditions of underground storm drainage systems (USDS)

2. Risks to Pollinating Bees from Adult Mosquito Control

Principal Investigator: Robert K. D. Peterson, Ph.D.

Sponsoring Organization: Montana State University

Pollinating bees have become the new "poster children" for concerns about pesticides. The insecticides currently used for management of adult mosquitoes are broad-spectrum and highly toxic to most bees, but toxicity is not the same thing as risk. Moreover, risk information is not available for real-world exposures of non-honey bee pollinator species to mosquitocides. This proposed two-year research project will deliver those facts. We have conducted one year of successful research, but two years are needed for proper replication of experiments and support for the graduate student currently working on the project. We are conducting research on the honey bee and the alfalfa leafcutting bee, an important non-honey bee pollinator in the western U.S. that can also serve as a surrogate for other solitary bees. This research encompassing three primary objectives is providing knowledge about the risks to bees from exposure to adult mosquitocides. The objectives are to determine: (1) LD50 values (the dose that causes 50% mortality) for alfalfa leafcutting bees when exposed to three mosquitocides; (2) the effects on foraging alfalfa leafcutting bees and honey bees the day after field applications of mosquitocides; and (3) the effects on populations of alfalfa leafcutting bees after field applications of permethrin.

3. Evaluation and adaptation of a new control method for control of subterranean dwelling mosquitoes using attractive toxic sugar bait (ATSB) stations

Principal Investigator: Whitney A. Qualls

Sponsoring Organization: University of Miami

The project goal is to determine how a new vector control strategy attractive toxic sugar bait (ATSB) stations can be used to more effectively control subterranean dwelling mosquitoes. Currently, methods used for subterranean dwelling mosquitoes are limited to larval control or to broadcast pesticide applications that must contact the mosquito providing limited residual and control efficacy. New vector control tools are needed. The new vector control "attract and kill" approach of ATSB, that targets the sugar-feeding behavior of female and male mosquitoes, is considered a promising vector control strategy. ATSB can be applied as bait stations, where mosquitoes are attracted to, feed, ingest an oral toxin, and die. What started with attractive plant-based attractants has now evolved to a refined approach of using a standard synthetic universal attractant. Our main hypothesis is that the addition of ATSB bait stations to a control program targeting subterranean mosquitoes, will drastically reduce these populations and provide a more cost effective and time efficient application strategy for mosquito abatement districts. The focus will be on laboratory and field evaluations of ATSB stations in storm drain systems in our field sites in St. Augustine, Florida

4. Novell Bacterial Strains for Sustainable Mosquito Control

Principal Investigator: Brian A. Federici

Sponsoring Organization: University of California, Riverside

We recently developed novel strains of larvicidal bacteria based on *Bacillus thuringiensis* subsp. *israelensis* (Bti) and *Lysinibacillus sphaericus* (Ls) that are more effective against larvae of *Culex*, *Aedes*, and *Anopheles* species than current products such as *VectoBac* and *VectoMax*. These strains avoid or overcome resistance to commercial strains of *L. sphaericus*. In this proposal, we request \$15,000 to further our studies of the mosquitocidal properties of one of these new strains, specifically, Bti Cyt1A-BinA, which produces a fusion protein made up of Cyt1A, a midgut binding protein of Bti, and the mosquitocidal domain, BinA of *L. sphaericus*. Our preliminary studies show this novel strain is highly active against *Cx. quinquefasciatus* fourth instars resistant or tolerant to *L. sphaericus* and spinosads. Our specific objectives for this one-year project are to (1) Purify and characterize the mosquitocidal entity of this new strain and (2) Determine the binding properties of this entity using larvae of *Cx. quinquefasciatus* and *Ae. aegypti*, the latter which is not normally sensitive to Bin. These studies are required for ultimate commercialization and registration of products based on this novel strain.

5. Insecticidal Resistance in *Culex tarsalis*

Principal Investigator: Tara Thiemann

Sponsoring Organization: University of California, Davis

Insecticide resistance can be a major threat to vector control, so characterizing and monitoring resistance in the field is crucial for planning effective mosquito control strategies. *Culex tarsalis* is a primary vector of West Nile virus in the Western United States, and is thus a frequent target of control. Despite this, little is currently known about insecticide resistance in this species. The specific objectives of the proposed project are to (1) develop qPCR diagnostics to detect relevant target-site mutations in *Cx. tarsalis*; (2) separate "susceptible" and "resistant" field-caught individuals via bottle bioassay and compare the prevalence of resistance mechanisms, including target-site mutations and overexpression of detoxifying enzymes, between these two groups; and (3) monitor field populations under insecticide pressure and evaluate changes in the frequency of resistance mechanisms over time. This work is an important first step in characterizing insecticide resistance in *Cx. tarsalis*, and the diagnostics developed will give vector control districts another tool for monitoring insecticide resistance.

6. Oviposition and larve performance of *Aedes albopictus* in downspouts

Principal Investigator: Donald Yee

Sponsoring Organization: The University of Southern Mississippi

Aedes albopictus, the Asian tiger mosquito, is a significant pest and vector for several important diseases of medical importance. This species is a container specialist, and often occurs in close proximity to human habitation. The use of downspout extension spouts (DES) that fit to existing rain gutters around residences and business have recently been identified as an important cryptic habitat for larval *Ae. albopictus*. Herein we propose to understand egg-laying responses of gravid female and larval survival to different types and colors of commercially available DES, and also examine how flushing with water affects larval populations within DES. We also will test the effectiveness of larvicides and insecticides targeting adults for control. This work should provide a framework for future control strategies for DES and *Aedes albopictus*.

Please consider sending a donation of any size to the:

Mosquito Research Foundation
980 9th Street 16th Floor
Sacramento, CA 95814

Craig Downs
President - MRF

**MOSQUITO RESEARCH FOUNDATION
GRANT AGREEMENT**

Grantor Name:	
Grant Amount:	\$
Primary Contact:	
Email Address:	
Phone Number:	

This Agreement is entered into by and between the Mosquito Research Foundation, a California nonprofit corporation ("Foundation"), and the above-referenced grantor ("Grantor"), who agree as follows:

1. RECITALS. This Agreement is made with reference to the following background recitals:

a. Foundation has been formed to promote scientific research for the control of disease-bearing mosquitoes and other vectors.

b. Grantor desires to make a grant to the Foundation in the amount set forth above (the "Grant") to further and assist Foundation's and Grantor's scientific research objectives, on and subject to the terms of this Agreement. Grantor has determined that the Grant to the Foundation will directly further and support studies of vectors and/or vector-borne diseases that will benefit mosquito and vector control services and objectives, and that the Grant is a legitimate and appropriate expenditure of Grantor's funds.

2. GRANT AND DISBURSEMENT OF FUNDS.

a. Grantor agrees to disburse the sum of money set forth above to Foundation to be used for the following purpose (*select one*):

Option 1. General Research and Administration Support. The Grant shall be used for scientific research for the control of disease-bearing mosquitoes and other vectors and related Foundation administration and overhead expenses, as determined by Foundation.

Option 2. Specific Research Project. The Grant shall be used for the specific scientific research project described on Exhibit A, attached hereto and incorporated herein.

b. Foundation agrees to accept the Grant proceeds and, through its own forces or pursuant to contracted services, expend the Grant proceeds for the purposes described in section 2(a). For Grants under Option 1, Grantor acknowledges that Foundation may need to solicit other grant funds and sources of money to generate adequate funds for a particular research project, and that commencement of the project may need to await the acquisition of sufficient funds. If there is a delay in commencing the research project and utilizing the Grant proceeds, then unspent Grant proceeds are subject to refund under section 3(b).

c. For any research project funded under Option 1, Foundation shall, upon request, consult with Grantor concerning the progress of the research project and its relation to Grantor's mosquito and vector control services and objectives, and, upon completion of the research project, provide Grantor with a copy of the final research paper or research results.

3. RESTRICTED USE OF GRANT AND RECORDKEEPING.

a. Foundation agrees that it will use the Grant proceeds solely for the purposes described in section 2(a) and for no other purpose.

b. At five years after the date of this Agreement, the balance of any unspent Grant proceeds shall be refunded to Grantor. If this Grant is made under Option 2 above, then, upon completion of the research project, the balance of any unspent Grant proceeds shall be refunded to Grantor.

c. Foundation shall keep and maintain accurate bookkeeping records, accounts, and documentation pertaining to the receipt, disbursement, and use of the Grant proceeds, including invoices, receipts, cancelled checks, and contracts. These records shall be retained for a period of not less than three years from the completion of the research project(s). These records shall be accessible and available for inspection or audit by Grantor, or by its employees, accountants, attorneys or agents, at reasonable times and upon reasonable notice.

4. GENERAL PROVISIONS.

a. Compliance with Laws. Foundation and its employees and contractors shall perform the research project and work in compliance with all applicable federal, state and local laws, regulations and codes, including the acquisition of all required permits, licenses, entitlements, and authorizations.

b. Indemnity. Foundation shall indemnify, defend, protect and hold harmless Grantor, and its officers, employees, agents and volunteers, from and against any and all liability, losses, claims, damages, expenses, and costs caused by any negligent or willful act or omission of Foundation or its employee or contractor in the performance of any research project funded under this Agreement, except such loss or damage that was caused by the sole negligence, active negligence or willful misconduct of Grantor.

c. Integration. This Agreement constitutes the sole, final, complete, exclusive and integrated expression and statement of the terms of this contract among the parties concerning the subject matter addressed herein, and supersedes all prior negotiations, representations or agreements, either oral or written, that may be related to the subject matter of this Agreement.

d. Amendment. This Agreement may be modified or amended only by a subsequent written agreement approved and executed by both parties.

e. Governing Law and Venue. Except as otherwise required by law, this Agreement shall be interpreted, governed by, and construed under the laws of the State of California.

MOSQUITO RESEARCH FOUNDATION

GRANTOR

By: _____
Robert O. Patterson, J.D.
Executive Director

By: _____
Owner / Manager

Date: _____

Date: _____

