

AGENDA

1046th MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

JULY 12TH, 2017

TIME: 5:00 P.M.
PLACE: Office of the District, 23187 Connecticut Street, Hayward
TRUSTEES: Kathy Narum, President, City of Pleasanton
Elisa Marquez, Vice-President, City of Hayward
Wendi Poulson, Secretary, City of Alameda
Humberto Izquierdo, County-at-Large
P. Robert Beatty, City of Berkeley
Richard Guarienti, City of Dublin
Betsy Cooley, City of Emeryville
George Young, City of Fremont
James N. Doggett, City of Livermore
Eric Hentschke, City of Newark
Robert Dickinson, City of Piedmont
Ed Hernandez, City of San Leandro
Ronald Quinn, City of Union City
City of Oakland, vacant

1. Call to order.
2. Roll call.
3. President Narum invites any member of the public to speak at this time on any issue relevant to the District. (Each individual is limited to five minutes).
4. Approval of the minutes of the 1045th meeting held June 14, 2017 (**Board action required**).
5. Presentation by IT Director Robert Ferdan on implementation of Map Vision software for managing the District's mosquito surveillance/control database.
6. Financial Reports:
 - a. Review of warrants dated June 15, 2017 numbering 0262717 through 065917 amounting to \$201,895.58 and warrants dated June 30, 2017 numbering 066017 through 070417 amounting to \$188,893.39 (Information only).
 - b. Review of Budget as of June 30, 2017, (Information only).
 - c. Investments, Reserves, and Cash Balance as of June 30, 2017.
7. Presentation of the Monthly Staff Report for June 2017 (Information only).
8. Presentation of the Manager's Report for June 2017 (Information only).
 - a. Update on pesticide shed construction
 - b. Implementation of Map Vision database

c. Success at the Alameda County Fair!

9. Board President asks for reports on conferences and seminars attended by Trustees.
10. Board President asks for announcements from members of the Board.
11. Board President asks trustees for items to be added to the agenda for the next Board meeting.
12. Adjournment.

RESIDENTS ATTENDING THE MEETING MAY SPEAK ON ANY AGENDA ITEM AT THEIR REQUEST.

Please Note: A copy of this agenda is also available at the District website, www.mosquitoes.org or via email by request. Alternative formats of this agenda can be made available for persons with disabilities. Please contact the district office at (510) 783-7744, via FAX (510) 783-3903 or email at acmad@mosquitoes.org to request an alternative format.

Agenda item: 1046.4

MINUTES

1045th MEETING OF THE BOARD OF TRUSTEES
OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

JUNE 14TH, 2017

TIME: 5:00 P.M.
PLACE: Office of the District, 23187 Connecticut Street, Hayward
TRUSTEES: Kathy Narum, President, City of Pleasanton
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Eric Hentschke, City of Newark
Robert Dickinson, City of Piedmont
Ed Hernandez, City of San Leandro
Ronald Quinn, City of Union City
City of Oakland, vacant

Board President Narum called the regularly scheduled Board meeting to order at 4:59 P.M.

Trustees Narum, Marquez, Poulson, Izquierdo, Beatty, Guarienti, Cooley, Young, Doggett, Hentschke, Dickinson, Hernandez, and Quinn were present.

Board President Narum invited members of the public to speak on any issue relevant to the District. District Manager Ryan Clausnitzer joined Temporary Manager Jan Washburn as District staff representatives.

The Board approved the minutes of the 1044th meeting held May 8th, 2017. (Beatty, Cooley)– unanimous. Board President Narum reminded the Board of the importance of following the Ralph M. Brown Act when communicating via email.

After answering a question from Trustee Hernandez regarding any tax rate change this year (no, it remains at \$2.50 per SFE), the Board approved resolution 1045-1 ordering the levy of assessments for fiscal year 2017-18 for the Alameda County Mosquito Abatement District and Disease Control Assessment. (Doggett, Guarienti)– unanimous.

The Board entered closed session to discuss the District Manager’s twelve-month evaluation pursuant to Government Code Section 54957.6.

The Board came out of closed session, and President Narum reported that no action was taken.

Trustee Marquez, representing the Manager Evaluation Committee, recommended increasing the District Manager salary by 4%, as of July 1st, 2017 and will seek legal advice on the possibility of awarding a cash bonus upon completion of the MPA degree. Trustee Dickinson asked if this can be changed after legal advice is given (yes). Trustee Hernandez asked where this legal advice will come from (the City of Pleasanton's city attorney). Trustee Cooley asked if there are different rules for different types of governments (e.g., special district versus city; yes) (Marquez, Cooley)– unanimous.

Trustee Dickinson asked if the reasons for the creation of a new account with Bank of the West are due to efficiency issues with banking with the County of Alameda. The District Manager answered that the reasons for the account are because some vendors are now requiring electronic payments and there is a need to pay some District vendors more quickly. Trustee Hernandez asked if banking changes were due to pressures to divest from DAPL (no). The Board approved resolution 1045-2 authorizing opening a checking account with Bank of the West, specifically for ACH (electronic) payments (Guarienti, Marquez)– unanimous.

The finance committee provided background on the amendment to the investment advisory agreement with PFM Asset Management, LLC and answered the following questions: Trustee Marquez asked if the finance committee reviewed the change (yes). Trustee Dickinson asked if this issue was related to Wells Fargo? Trustee Cooley answered that this was a separate issue; Wells Fargo is related to another fund managed by PFM. Trustee Hernandez asked for the approximate fund balance (4.1 million) (Beatty, Doggett)– unanimous.

After asking why there were only three quotes provided (only those firms responded), Trustee Hernandez asked if there is a policy of only purchasing vehicles within Alameda County? The District Manager responded that there is not an in-county purchasing policy, but if prices are comparable to out-of-county vendors, recommendations will favor local businesses. Trustee Guarienti added that the price is fair and most likely due to a government discount. Trustee Izquierdo confirmed that car dealerships do provide fleet-service discounts. The Board awarded the contract to the Dublin Automotive Group for the purchase of two 2017 GMC Canyon trucks replacing two District lab vehicles (Dickinson, Doggett)– unanimous.

The Board approved the request for sole-source purchase of a 2017 Argo Adventure 8x8 ST from Liewer Enterprises, INC. (Doggett, Beatty)– unanimous.

The Board reviewed warrants dated May 15, 2017 numbering 052617 through 059117 amounting to \$193,889.76, and warrants dated May 31, 2017 numbering 059217 through 062617 amounting to \$130,387.55.

The Board reviewed the budget summary received as of May 31, 2017.

The Board reviewed the Investments, Reserves, and Cash Balance as of May 31, 2017.

The District and Temporary Managers, presented the Staff report for May 2017. Board President Narum encouraged Trustees to attend the opening of the Alameda County fair on Friday, June 16th, 2017 at 10:15 A.M., specifically a cattle-drive down the streets of Pleasanton.

The District Manager presented the Manager's report for May 2017. Trustee Quinn asked if the low WNV activity is limited to Alameda County (this year, there is less activity in the

District compared to adjacent Districts). Trustee Cooley asked why this was (perhaps due to the District's dedicated staff and their operational philosophy). Board President Narum reminded the Board that there have been few recent adult mosquito foggings in Alameda County (one in 2015, two in 2014).

Board President Narum asked for reports on conferences and seminars attended by Trustees. Trustee Guarienti commended Field Operational Supervisor, Joseph Huston, on his presentation to the East Bay Regional Park District sub-committee where he was joined by the Regulatory and Public Affairs Director, Erika Castillo. He stated that Joseph did an outstanding job with a well-prepared presentation including excellent photos.

Board President Narum asked for announcement from the Board. Trustee Hernandez asked if the billboard is up at the Oakland Coliseum (yes).

Board President Narum asked trustees for items to be added to the agenda for the next Board meeting, there were none.

The meeting adjourned at 6:23 P.M.

Respectfully submitted,

Approved as written and/or corrected
at the 1046th meeting of the Board of
Trustees held July 12th, 2017

Kathy Narum, President
BOARD OF TRUSTEES

Wendi Poulson, Secretary
BOARD OF TRUSTEES

ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT
LIST OF WARRANTS DATED JUNE 15 2017.

WAR NO	PAYEE	ACCT NO	AMT OF CHARGE	AMT OF WARRANT
062717	Biological Specialist			
	Total salary less deductions for payroll period	600001	2,674.97	
062718	Mosq Control Tech	"	2,254.67	
062719	Lab Seasonal	"	989.24	
062720	Vector Biologist	"	2,853.13	
062721	Vector Biologist	"	2,881.10	
062722	Mosq Control Tech	"	2,220.80	
062723	Regulatory & Public Affairs Director	"	2,832.65	
062724	District Manager	"	3,628.09	
062725	Asst Mosq Control Tech	"	2,259.32	
062726	Lab Seasonal	"	1,260.53	
062727	Field Seasonal	"	1,474.98	
062728	IT Director	"	3,033.87	
062729	Lab Director	"	2,951.18	
062730	Field Operations Supervisor	"	3,562.93	
062731	Office Assistant	"	1,729.78	
062732	Vector Biologist	"	3,539.77	
062733	Mosq Control Tech	"	2,678.64	
062734	Mosq Control Tech	"	2,225.00	
062735	Office Seasonal	"	1,134.38	
062736	Mechanical Specialist	"	3,228.48	
062737	IRS	600001	8,049.90	
062738	Federal tax withheld (payroll)	600001	926.19	
	Medicare Tax Withheld (payroll)	600001	926.19	
062739	District Contribution to Medicare (payroll)	600401	926.19	
062740	State of California	600001	2,432.80	
062741	EDD	600001	523.23	62,271.82
062817	Public Employees' Retirement System	600001	16.00	
	Employee Contributions	600001	4,390.02	
	Employee Paid Member Contributions, 7% & 6.5%	600201	5,519.54	9,925.56
	Employer Contribution 9.558% & 6.930%	600201		
062917	Aetna Life & Annuity	600001		150.00
063017	CALPERS 457 Plan	600001		2,530.00
063117	Delta Dental Plan	600601		4,411.85
063217	Vision Service Plan	600601		651.36
063317	The Hartford	600601		78.71
063417	Airgas	620141.1		285.61
063517	Adapco	610461.1		20,035.96
063617	Alameda County LAFCO	610351		741.00
063717	Cintas	610011	100.87	
	Laundry service	610011	0.00	100.87
	Personal supplies	610011		
063817	Corporate Park Landscaping	610122.1		195.00
063917	Campbell, Cornelius Christopher	610191.1		31.04
064017	Carquest	610141		88.96
064117	Clarke Mosquito Control	610461.1		10,304.19
064217	Donato Builders	800002		58,685.00
064317	Grainger	610122.2	0.00	
	Shop supplies	610461.6	54.39	54.39
064417	Hayward Water System	610021.3		525.23
064517	Kimball Midwest	610141		81.92
064617	Korbmacher Engineering Inc	800002		345.00
064717	Liewer Enterprises	610141		691.48
064817	Mar-Len Supply	610141		113.64
064917	Mello, Melvin	600601		313.20
065017	Matthes, Michelle	610191.3		18.36
065117	NBC Supply Corp	610461.6		517.14
065217	PFM Asset Management	610261.11		1,683.90
065317	PG & E	610021.2		114.43
065417	Schaeffer's	610141		1,116.63
065517	Techniclean	620021		154.86
065617	Tire Treds	610141		191.20
065717	Washburn, Jan	600001		1,875.00
065817	Waste Management	610021.1		218.67
	Garbage, May Service	610021.1		

WAR NO	PAYEE	ACCT NO	AMT OF CHARGE	AMT OF WARRANT
065917	U.S Bank			
	Amazon- Work boots	610001	155.00	
	Amazon- Boots	610001	115.18	
	Amazon- Boots for S.E	610001	140.00	
	TPX Communications- communication	610022.1	1,106.05	
	Audible- Mistake charge waiting for C.R	610022.3	14.95	
	Audible- Mistake charge waiting for C.R	610022.3	73.88	
	GoDaddy- Renewal	610022.3	9.99	
	Amazon- Mistake charge, waiting for CR	610022.3	75.00	
	Amazon-Phone case	610022.4	7.59	
	The Ford Store- Service for vehicle	610141	59.97	
	Amazon- Service cart	610141	47.49	
	Northern Tool - Utility lift	610141	189.98	
	Amazon- Service cart	610141	95.17	
	Amazon - Trailer tires/ Argo	610141	235.20	
	Safety Kleen - Oil filters	610141	170.00	
	Chrysler- work done on jeep	610141	281.24	
	Kamps - Small tank	610141	182.79	
	The Ford Store - Element Asy	610141	331.99	
	Mosquito Control - Mosquito Magnet tune up	610141	46.00	
	The Ford Store - Service for V53	610141	65.20	
	Hyatt Hotels - Hotel for E.H	610191.3	113.96	
	Embassy Suites - Hotel for E.H	610191.3	405.66	
	La Tortuga - Breakfast for E.H, E.C, M.C	610191.3	41.65	
	La Creperie - Meal for conference	610191.3	29.04	
	Advantage Car- Car rental	610191.3	256.55	
	Advantage Car- Car rental CR	610191.3	(215.80)	
	LAZ Pkg - Oakland parking	610191.3	32.00	
	Burgers and brews - Dinner for E.H, J.H, T.M, N.A	610191.3	65.21	
	La Quinta - Hotel for E.H	610191.3	141.36	
	Embassy Suites - Hotel for E.C	610191.3	405.66	
	Bart - parking	610191.3	3.00	
	Hyatt - Credit from hotel	610191.3	(29.09)	
	La Qunita - Hotel for J.H	610191.3	141.36	
	La Qunita - Hotel for N.A	610191.3	141.36	
	La Qunita - Hotel for T.M	610191.3	141.36	
	Hyatt Hotel - Dinner R.F	610191.3	30.45	
	Ambrosia - Lunch R....F	610191.3	18.80	
	The Red Horse - Dinner R.F	610191.3	32.70	
	Ketch it seafood - Lunch R.F	610191.3	14.14	
	Hyatt Hotel - Hotel for R.F	610191.3	374.28	
	Clipper service - Reload	610191.3	40.00	
	Bart EZ - parking pass	610191.3	60.00	
	Bart EZ - hangtag fee	610191.3	2.00	
	CSDA - Conference	610191.3	580.00	
	Yalla - Lunch for R.C	610191.3	29.07	
	Legends - Lunch for R.C	610191.3	14.81	
	Sheraton- Hotel for RC Split charge	610191.3	259.82	
	Sheraton - Hotel for RC Split charge	610191.3	237.92	
	Dairy Queen -Lunch for RC	610191.3	11.67	
	Pennisi - Meal for conference	610191.3	11.87	
	Safeway - Board supplies	610191.4	62.28	
	Amazon - Audio book	610191.7	11.33	
	Amazon - Book for RC	610191.7	48.71	
	Amazon - Book for RC	610191.7	5.34	
	Amazon - Book for RC	610191.7	21.56	
	Amazon - Book for RC	610191.7	17.48	
	Amazon - Book for RC	610191.7	19.12	
	Amazon - Book for RC	610191.7	93.38	
	UCB - Summer session	610191.7	308.00	
	Amazon - Books for RC	610191.7	13.22	
	Amazon - Books for RC	610191.7	47.11	
	Fairgrounds - county fair	610451	10.00	
	Vista print - Business cards	610451	82.23	
	Momento - Yellow pages	610451	144.00	
	National pen - pens	610451	368.61	
	National pen - carabineers	610451	470.46	
	Lucky Vitamin - Repellent wipes	610451	118.65	
	Constant contract - contract	610451	20.00	
	YP - yellow pages posting	610451	524.68	
	Office Depot - supplies	610451	175.30	
	The Home Depot - Invasive Aedes Kit	610461.2	26.27	
	Walgreens - Misc items	610461.2	102.06	

Petco Water -conditioner	610461.4	46.11
Amazon - Hose filter	610461.4	36.95
Petco - Fish supplies	610461.4	71.29
Amazon - Mats	610461.6	202.09
Amazon - Hydration backpacks	610461.6	162.40
Amazon- Hydration backpacks	610461.6	67.96
Canon Financial - Copier rental	620041	340.23
Amazon - Sharpies	620041	12.49
Office Depot - Sharpies	620041	26.98
Amazon - (2) Case copyholder	620041	60.66
Amazon - Office supplies	620041	16.24
Best Buy - Computer for RC	620041	1,102.49
Amazon - Remote control device	620042.1	72.47
Amazon - Computer	620042.1	649.00
Uline- Invasive Aedes Project	620141.1	777.89
The Home Depot - HS Tubing	620141.1	10.08
Bioquip - Catch bag	620141.1	295.60
Walmart - Deck box	620141.1	71.88
Amazon - Non slip mats	620141.1	240.27
Amazon - Zipties	620141.1	43.90
WS - Mosquito Magnet	620141.1	1,895.85
Amazon - Battery Cartridge	620141.1	43.87
Amazon - Polyethylene	620141.1	59.21
Amazon - Razor blade	620141.1	8.75
Amazon - Rechargeable batteries	620141.1	475.00
Amazon - Medical exam gloves	620141.2	138.00
Stericycle - Waste Disposal	620141.3	197.47
Lifetech - Kingfisher	620141.3	3,293.13
Lampire - Chicken blood	620141.3	231.50
Lifetech - Sequence detection primer	620141.3	386.92
Lifetech - tax	620141.3	0.09
Lifetech - Taqman	620141.3	212.61
Fisher Scientific - Trisborateedta	620141.3	106.88
Fisher Scientific - DNA Dye	620141.3	259.60
Lifetech - Reaction plate	620141.3	1,222.87
Amazon - Emergency response book	620141.5	20.86
Amazon - Thermometer	620141.5	26.41
Amazon - (4) Avitation Regulations	620141.5	64.10
Amazon - Remote pilot test prep	620141.5	15.57
The Home Depot - Lab supplies	620141.5	130.60
Fisher Scientific - Agarose	620141.8	279.46
Allpadlocks - Master lock	620261	74.75
Philadelphia security - shop supplies	620261	44.40
Philadelphia security - shop supplies	620261	6.96
Northern Tool - step stool	620261	54.26
Amazon - I Pad supplies	650031.1	109.34

23,393.60

201,895.58

ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT
LIST OF WARRANTS DATED JUNE 30, 2017

WAR NO	PAYEE	FOR	ACCT NO	AMT OF CHARGE	AMT OF WARRANT
066017	Biological Specialist	Total salary less deductions for payroll period	600001	2,766.85	
066017	Mosq Control Tech	"	600001	2,254.66	
066017	Lab Seasonal	"	600001	997.54	
066017	Lab Seasonal	"	600001	479.84	
066017	Vector Biologist	"	600001	2,929.04	
066017	Vector Biologist	"	600001	2,881.08	
066017	Mosq Control Tech	"	600001	2,220.81	
066017	Regulatory & Public Affairs Director	"	600001	2,906.93	
066017	District Manager	"	600001	4,117.88	
066017	Asst Mosq Control Tech	"	600001	2,259.33	
066017	Lab Seasonal	"	600001	1,028.72	
066017	Field Seasonal	"	600001	1,351.10	
066017	IT Director	"	600001	3,144.64	
066017	Outreach seasonal	"	600001	468.37	
066017	Lab Director	"	600001	3,121.79	
066017	Field Operations Supervisor	"	600001	3,609.73	
066017	Lab Seasonal	"	600001	461.58	
066017	Office Assistant	"	600001	1,729.79	
066017	Vector Biologist	"	600001	3,539.77	
066017	Mosq Control Tech	"	600001	2,678.63	
066017	Mosq Control Tech	"	600001	2,225.01	
066017	Office Seasonal	"	600001	1,134.38	
066017	Mechanical Specialist	"	600001	3,317.70	
066017	IRS	Federal Tax Withheld	600001	8,453.38	
066017		Medicare Tax Withheld	600001	966.95	
066017		District Contribution to Medicare	600401	966.95	
066017	State of California	State Tax Withheld	600001	2,570.55	
066017	EDD	Ca Disability	600001	539.11	65,122.11
066117	Public Employees' Retirement System	Employees contributions	600001	16.00	
		Employee paid member contributions, 7%, 6.5%	600001	4,390.02	
		District contribution 9.558%, 6.930%	600201	5,519.54	9,925.56
066217	Aetna Life & Annuity	Employee contributions	600001		150.00
066317	CalPERS 457 Plan	Employees contributions - PERS 457	600001		2,530.00
066417	CalPERS	Health insurance	600601		31,685.40
066517	P. Robert Beatty	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
066617	Elizabeth Cooley	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
066717	James Doggett	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
066817	Robert Dickinson	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
066917	Richard Guarienti	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
067017	Eric Hentschke	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
067117	Ed Hernandez	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
067217	Humberto Izquierdo	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
067317	Elsa Marquez	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
067417	Katherine Narum	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
067517	Wendi Poulson	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
067617	Ronald Quinn	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
	Jan Washburn	Trustee in lieu expenses - 1045th meeting	610191.5		
067717	George Young	Trustee in lieu expenses - 1045th meeting	610191.5		100.00
067817	Airgas	Dry ice pellets	620141.1		285.44
067917	Adapco	Vectolex, Altosid	610461.1		4,935.24
068017	Alameda County Chapter - CSDA	Membership dues	610351		100.00
068117	All-Ways Green Services	Janitorial service	620021		410.00
068217	Beck's Shoes	Boots for J.S	610001		190.00
068317	BioQuip Products	Insect pins	610451		413.69
068317A	Cintas	Personal supplies	610001	3,558.36	
		Laundry service	610011	1,094.08	4,652.44
068417	Clarke	Natular XRT	610461.1		10,304.19
068517	Grainger	Shop supplies	610141		200.62
068617	Hass- Stapleton, Eric	Reimbursement for drone license	610191.7	150.00	
		Reimbursement for gas	610191.1	40.00	190.00
068717	Korbmacher Engineering Inc	Shed Project	800002		3,187.50
068817	Kimball Midwest	Shop supplies	610141		299.79
068917	Mobile Modular Public Storage	Shed Project	800002		113.59
069017	Mello, Melvin	Reimbursement for Dental expenses	600601		1,075.50
069117	Mar-Len supply, Inc.	Shop supplies	610141		46.20
069217	National Cinemedia	Movie Theater Ad	610451		13,435.00
069317	Outfront Media	Billboard Ad	610451		13,500.00
069417	Praxair	Lab supplies	620141.8		29.10
069517	PG & E	Utilities	610021.2		1,498.14
069617	PC Professional	Data base development	620042.1	4,488.40	
			620042.2	560.76	
			620042.3	4,500.00	9,549.16
069717	Pitney Bowes	Postage	620041		208.99
069817	Pitney Bowes	Postage machine rental	620041		94.82
069917	Sonitrol	Monitoring charges and CCTV Fees	620021		750.00
070017	Tree Specialist Inc.	Tree work	610122.1	1,160.00	
			610122.3	240.00	1,400.00
070117	VCJPA	Employee Assistance Program	610261.4		217.92
070217	Verizon	Communication expenses	610022.4	806.98	
		iPad	650031.1	2,146.15	2,953.13
070317	Washburn, Jan	Payment for temporary manager	600001	4,500.00	
		Reimbursement for board supplies	610191.4	29.53	4,529.53
070417	Wright Express	Fuel expenses, statement ended 06-15-17	610191.1		3,610.33
Total Warrants June 30th					188,893.39
Total Warrants June 15th					\$ 201,895.58
Total June Warrants					\$ 390,788.97

Alameda County Mosquito Abatement District Budget Summary
As of June 30, 2017. (12 of 12 mth, 100%)

Account #		EXPENDED IN (June)	EXPENDED TO DATE	BUDGETED	BALANCE
	SALARY & BENEFITS				
600001	Salary and Wages	\$ 146,047.83	\$ 1,674,270.06	\$ 1,700,594.00	\$ 26,323.94
600401	Contribution to Medicare	\$ 1,893.14	\$ 21,368.42	\$ 24,659.00	\$ 3,290.58
600201	Contribution to Retirement	\$ 11,039.08	\$ 419,891.78	\$ 422,589.00	\$ 2,697.22
600601	Contribution to Health Care	\$ 38,216.02	\$ 453,876.91	\$ 500,000.00	\$ 46,123.09
	SERVICE AND SUPPLIES				
610001	Clothing and personal supplies	\$ 4,158.54	\$ 8,302.54	\$ 8,500.00	\$ 197.46
610011	Laundry services and supplies	\$ 1,194.95	\$ 8,504.35	\$ 9,000.00	\$ 495.65
610021	Utilities total	\$ 2,356.47	\$ 26,780.31	\$ 35,900.00	\$ 9,119.69
	Communications				
610022.1	Telephone Service & Internet	\$ 1,106.05	\$ 11,305.50	\$ 13,800.00	\$ 2,494.50
610022.3	Website and email hosting	\$ 173.82	\$ 892.11	\$ 850.00	\$ (42.11)
610022.4	Cell phone service (Verizon)	\$ 814.57	\$ 6,962.37	\$ 9,000.00	\$ 2,037.63
610141	Maintenance of equipment	\$ 4,535.47	\$ 25,868.00	\$ 45,000.00	\$ 19,132.00
610122	Maintenance of structure and improvements				
610122.1	Landscaping service	\$ 1,355.00	\$ 3,500.00	\$ 3,600.00	\$ 100.00
610122.2	Building Maintenance and repairs	\$ -	\$ 13,952.53	\$ 10,000.00	\$ (3,952.53)
610122.3	Yard Maintenance and repairs	\$ 240.00	\$ 1,400.00	\$ 1,400.00	\$ -
	Transportation, travel, & training				
610191.1	Fuel and GPS (WexMart)	\$ 3,681.37	\$ 37,133.61	\$ 40,000.00	\$ 2,866.39
610191.3	Meetings, conferences, & travel	\$ 3,409.17	\$ 26,114.52	\$ 35,000.00	\$ 8,885.48
610191.4	Board meeting expenses	\$ 91.81	\$ 583.52	\$ 1,000.00	\$ 416.48
610191.5	Board payments in lieu	\$ 1,300.00	\$ 12,400.00	\$ 16,800.00	\$ 4,400.00
610461.53	Continuing Education fees	\$ -	\$ 145.00	\$ 4,000.00	\$ 3,855.00
610191.6	Training for trustees	\$ -	\$ -	\$ 1,000.00	\$ 1,000.00
610191.7	Staff Training (automotive, IT, staff development)	\$ 735.25	\$ 46,302.45	\$ 80,000.00	\$ 33,697.55
	Professional services				
610261.1	Audit	\$ -	\$ 13,135.00	\$ 13,000.00	\$ (135.00)
610261.2	Actuarial reports	\$ -	\$ 1,300.00	\$ 3,000.00	\$ 1,700.00
610261.3	Helicopter service	\$ -	\$ -	\$ 30,000.00	\$ 30,000.00
610261.4	Legal services	\$ 217.92	\$ 1,691.68	\$ 20,000.00	\$ 18,308.32
610261.5	MVCAC Research Foundation	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00
610261.6	UC Davis Zika virus vector competency research	\$ -	\$ 7,500.00	\$ 7,500.00	\$ -
610261.7	Tax collection service - SCI	\$ -	\$ 32,371.98	\$ 35,000.00	\$ 2,628.02
610261.8	Payroll service	\$ -	\$ 49.95	\$ 6,000.00	\$ 5,950.05
610261.9	Environmental consultant services for regulatory issues	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00
610261.1	HR Services (RGS)	\$ -	\$ 13,674.90	\$ 25,000.00	\$ 11,325.10
610261.11	OPEB service	\$ 1,683.90	\$ 18,145.11	\$ 22,100.00	\$ 3,954.89
610351	Annual memberships and dues total	\$ 841.00	\$ 20,191.00	\$ 22,935.00	\$ 2,744.00
610378	Insurance total	\$ -	\$ 113,867.00	\$ 140,138.00	\$ 26,271.00
610451	Community education total	\$ 29,262.62	\$ 40,038.78	\$ 35,000.00	\$ (5,038.78)
	Special expenses				
610461.1	Pesticides	\$ 45,579.58	\$ 142,303.64	\$ 200,000.00	\$ 57,696.36
610461.2	Field supplies (dippers etc)	\$ 128.33	\$ 344.32	\$ 1,000.00	\$ 655.68
610461.4	Fish and Fish Maint.	\$ 154.35	\$ 3,202.16	\$ 4,000.00	\$ 797.84
610461.51	Aerial Pool Survey	\$ -	\$ -	\$ 17,000.00	\$ 17,000.00
610461.52	Permits	\$ -	\$ 3,232.00	\$ 3,000.00	\$ (232.00)
610461.54	Board plaques and nameplates	\$ -	\$ 215.80	\$ 1,000.00	\$ 784.20
610461.6	Spray equipment & Safety	\$ 1,003.98	\$ 10,235.01	\$ 14,000.00	\$ 3,764.99
620021	Household expenses total	\$ 1,314.86	\$ 17,372.91	\$ 14,480.00	\$ (2,892.91)
620041	Office supplies total	\$ 1,862.90	\$ 17,337.42	\$ 22,400.00	\$ 5,062.58
620042	Information technology				
620042.1	Computers, supplies and software	\$ 5,209.87	\$ 15,432.94	\$ 15,000.00	\$ (432.94)
620042.2	Contract services for Computer network	\$ 560.76	\$ 1,035.76	\$ 4,000.00	\$ 2,964.24
620042.3	Database consultant	\$ 4,500.00	\$ 16,517.25	\$ 25,000.00	\$ 8,482.75
620141	Laboratory total	\$ 11,108.52	\$ 70,325.31	\$ 88,594.00	\$ 18,268.69
620261	Small tools and instruments	\$ 180.37	\$ 2,345.22	\$ 2,500.00	\$ 154.78
650031.1	Capital expenditures	\$ 2,255.49	\$ 167,343.86	\$ 295,000.00	\$ 127,656.14
	TOTAL EXPENDITURES	\$ 328,212.99	\$ 3,528,762.98	\$ 4,039,339.00	\$ 510,576.02
	TOTAL WARRANTS	\$ 390,788.97			
	Discrepancy from Expenditures and Warrant list ¹	\$ 62,575.98			

1- \$62,331.09 spent in Capital Replacement, account 800002
3 - \$244.89 CR to account 610191.3
* Adjustments made to accounts 610261.10, 610461.2, 620042.1

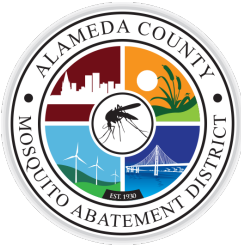
Investments, Reserves, and Cash Balance

Account #		Activity in June	Activity to Date	Beginning Balance 7/1/16	Current Balance
Budget Reserves					
800001	Working Capital (Dry Period Cash) \$	-	\$ -	\$ 2,427,743.00	\$ 2,427,743.00
800002	Capital Replacement \$	62,331.09	\$ 113,859.48	\$ 544,731.00	\$ 430,871.52
800003	Public Health \$	-	\$ -	\$ 500,000.00	\$ 500,000.00
800004	Contingency	\$	\$ 1,039.24	\$ 25,000.00	\$ 23,960.76
VCJPA Reserve					
800006	VCJPA Contingency	\$	\$ 77,000.00	\$ 210,282.00	\$ 287,282.00

		May Balance		June Balance
Investment Accounts				
800005	LAIF \$	150,887.49		\$ 150,887.49
	OPEB Fund \$	4,170,360.48		\$ 4,171,588.68

	May Balance	April Expenditures	Deposits ¹	June Balance
Bank of America (Payroll Account)				\$ 133,290.77
County Account	\$ 5,984,160.32	\$ 390,788.97	\$ (6,876.07)	\$ 5,600,247.42

1- Deposits from the County



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MONTHLY STAFF REPORT – June 2017

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1. OPERATIONS

June high tides were the highest to date this year. Several large tidal sources were pre-treated with Altosid pellets. The active ingredient in these pellets, Methoprene, prevents mosquitoes from being able to emerge as adults from the pupal stage, and they eventually die in the pupal state being unable to feed or emerge. The goal of these treatments was to control *Aedes dorsalis* emergence from these tidal sources. Field operations expect these treatments to remain effective through the coming high tides of July and August. *Aedes dorsalis* is one of our most aggressive day-biting mosquitoes, and these sources will be closely monitored to be sure the treatments remain effective. Many of ACMAD's tidal sources are in sensitive habitat and can be difficult to access and treat. This has been compounded by a lack of a ditching permit for many years. Maintenance of these ditches involves removing overgrown vegetation, silt, and debris by hand. It can be an arduous process, but it greatly increases tidal flow into and out of these tidal sources and has a significant impact on *A. dorsalis* breeding. Physical control is an important aspect of mosquito control and was the main control tool utilized in the District's early history. With a ditching permit now in place, operations will begin ditch work as soon as the permit allows in September. The goal will be to improve flow and to lessen the amount of treatments necessary. Overgrown ditches are also difficult to see and negotiate so this ditch work will make inspections and treatments safer for field staff. June operations continued to focus on various *Culex spp.* sources throughout the County. Catch basins, canals, fresh water marshes, sewer plants, and unmaintained swimming pools were all part of this effort during the course of the month. This will continue until the first significant rains during the fall of 2017.

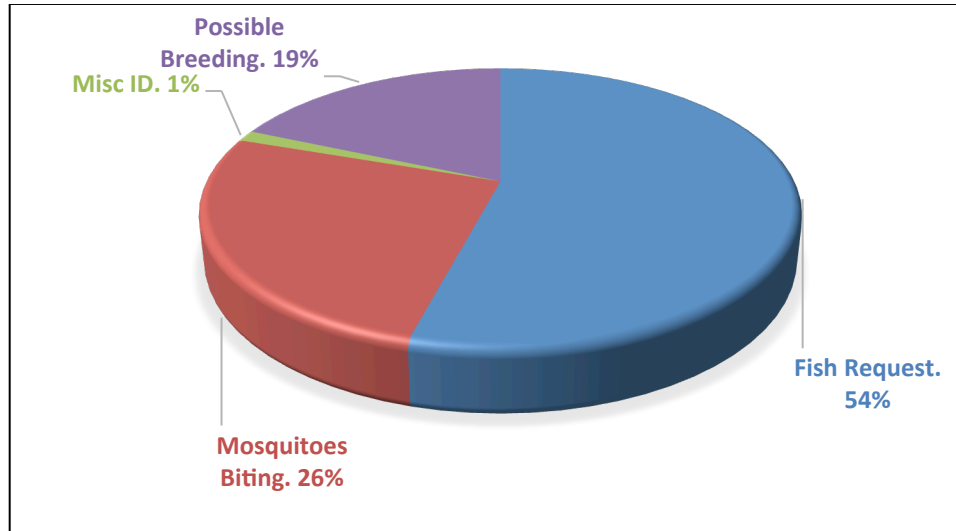
Pool data from the aerial survey are in and being processed. Unmaintained pools will be reported to field staff in early July for the first batch and mid July for the second batch of pools. Inspections and treatments will be conducted as soon as possible. This program has been a big help in locating unmaintained pools and has led to better control of *Culex tarsalis*, *Culiseta incidens*, and *Culex pipiens* in numerous regions of the County. Both *Culex spp.* are important vectors of West Nile Virus and are major species of focus during the spring, summer and fall months.

Service requests for the month of June were a slightly above the annual average. More than half of the calls were requests for mosquito fish for ornamental ponds, horse troughs, and unmaintained swimming pools. *Culiseta incidens* was the dominant species of mosquito encountered by field staff during the course of inspections for fish requests and mosquito calls. With water still remaining in backyard sources, this species will likely be the dominant mosquito encountered by operations staff during the course of service requests for months to come.

Joseph Huston
Field Operations Supervisor

A. Operational Data

1. Service Requests



June 2017 Managers Report Data	
Total service requests	157
June- Ten year average	138
June - Five year average	107
Last June	206
Range (10 yr) =	116 - 252
Mosquito species attributed to service request	#
<i>Ae sierrensis</i>	1
<i>Cs incidens</i>	54
<i>Cx pipiens</i>	4
<i>Cx stigmatosoma</i>	1
<i>Cx tarsalis</i>	13

2. Other

Number of all injuries during **2017** = 2

3. Activity Report

Vacation Hours Used	146.25
Sick Hours Used	53
Workers Comp.	0
ETO Used	0
Total Leave	199.25
ETO Hours Accrued	17.25

2. LAB

Summary

- Weather was slightly warmer relative to the prior month, with no rainfall recorded, permitting the placement of 142 CO₂ traps during the month.
- No detections of arboviruses in birds or mosquitoes during 2017.
- No invasive *Aedes* mosquitoes detected in Alameda County during 2017.
- Highest mosquito abundance occurred in cities in the southern region of the county that border the San Francisco Bay. The West Nile virus vectors *Culex tarsalis* predominated in CO₂ traps in Hayward, *Culex pipiens* in Livermore, and *Culex erythrothorax* in Union City and Fremont (Figure 1).
- Mosquito abundance for June was higher than prior months of 2017, but was similar or lower than what was observed in May of the prior two years (May of 2016 and 2015; Figure 2).
- Invasive *Aedes* trap network of ~600 traps has been established (Figure 3) and will be deployed during the month of July 2017.
- Nested PCR assay for identifying the species of animal that mosquitoes fed upon has successfully identified rooster DNA in blood (Figure 4).

Budget

As of June 30, 2017 (month 12 of 12, 100 % of the year), 79 % of the lab budget has been expended.

Mosquito Abundance Monitoring

- **Native mosquito abundance monitoring.**
 - Outdoor temperatures for the month of June 2017 were slightly warmer relative to the prior month and no rain was recorded (minimum and maximum average temperatures of 60 °F and 85 °F, respectively; average temperature of 67 °F; 0 inches of rain; 31 heat degree days; data from weatherunderground.com).
 - *CO₂ Traps.* Geographically, the highest number of mosquitoes for the month of June was observed in cities in the southern region of the county that are adjacent to the San Francisco Bay (Figure 1). Cities with highest abundance of mosquitoes that can transmit West Nile virus (WNV) were: Hayward (*Culex tarsalis*), Union City (*Culex erythrothorax*), Fremont (*Cx. erythrothorax*) and Livermore (*Culex pipiens*). The high numbers of *Cx. erythrothorax* that were collected from Hayward and Union City were from traps located in marsh habitats that are relatively removed from people. Consequently, the risk of WNV transmission or nuisance biting was low.
 - Across the county, an average of 32.4 mosquitoes were collected per CO₂ trap night (range of 0 – 1010 mosquitoes / trap night; 142 traps). This represents a 28 % increase in the number of mosquitoes per CO₂ trap night relative to the prior month (May 2017), suggesting that mosquito breeding increased during June. However, mosquito abundance for May 2017 as measured using CO₂ traps was similar to or lower than the two prior years (2015 and 2016; Figure 2A).
 - New Jersey Light traps (NJLT) are monitored each week of the year. During June, an average of 4.5 mosquitoes were captured per NJLT trap night (n = 294 trap nights; range of 0 – 179 mosquitoes per trap). The number of mosquitoes collected in NJLT for June 2017 was similar to or lower than prior years. However, there was an 60 % increase in mosquitoes collected in NJLT during June 2017 relative to the prior month (2.4 mosquitoes per NJLT trap night during May 2017).

Invasive *Aedes* mosquito monitoring (prepared by Dereje Alemayehu, Biological Specialist).

The Lab has continued to trap for invasive *Aedes* mosquitoes. To date, there have been no detection of invasive *Aedes* mosquitoes collected in any of the invasive *Aedes* traps that have been deployed. For the month of June 2017, we had a total of 202 invasive *Aedes* mosquito traps deployed throughout Alameda County. Out of these, 50 traps were AGO (autocidal gravid oviposition) traps, 144 were ovi-bucket traps, 6 BG-Sentinel and 2 mosquito magnets. During the month of June, the Lab identified most of the trap sites for the Invasive *Aedes* Trap Network using Google Maps Street View (~600 ovi-bucket traps distributed throughout Alameda County; Figure 3). Two seasonal lab technicians that are responsible for deploying and inspecting the Invasive *Aedes* Trap Network over the upcoming six months were trained by Lab and Operations staff in trap and pesticide use.

Arbovirus Monitoring

- **WNV in birds and mosquitoes.** No WNV-positive birds or mosquitoes were detected in Alameda County for the month of June. For the year 2017, no mosquitoes or birds have been found to contain WNV, SLE or WEE.

Research

- **Bloodmeal identification assay.** The ACMAD Lab continues work to develop a nested PCR-based assay that amplifies the mitochondrial gene cytochrome c oxidase I (*mtCOI*) gene for determining the animal species that mosquitoes collected in the environment had fed upon. The assay is based on a report by using a report by Thiemann *et al.* (Mol Ecol Resour; 2012 12(2): 238–246). The data collected on the species of animal that mosquitoes feed upon will be used to assess the relative risk of arbovirus transmission to humans. For example, if blood-fed *Culex tarsalis* that were collected near to where a West Nile virus (WNV)-positive crow was found, and that mosquito was found to contain human blood, the risk of WNV transmission to humans may be increased. The lab has successfully isolated mitochondrial DNA from rooster blood, amplified the two nested PCR products, separated the PCR products using gel electrophoresis, excised and extracted the PCR products from the gel, and sequenced the PCR products (Figure 4A, 4B). Sequencing of the PCR product showed it to be *mtCOI* of *Gallus gallus* (rooster; Figure 4C). The next step is to validate the primers for three additional animals (horse, bovine, human).

Figures

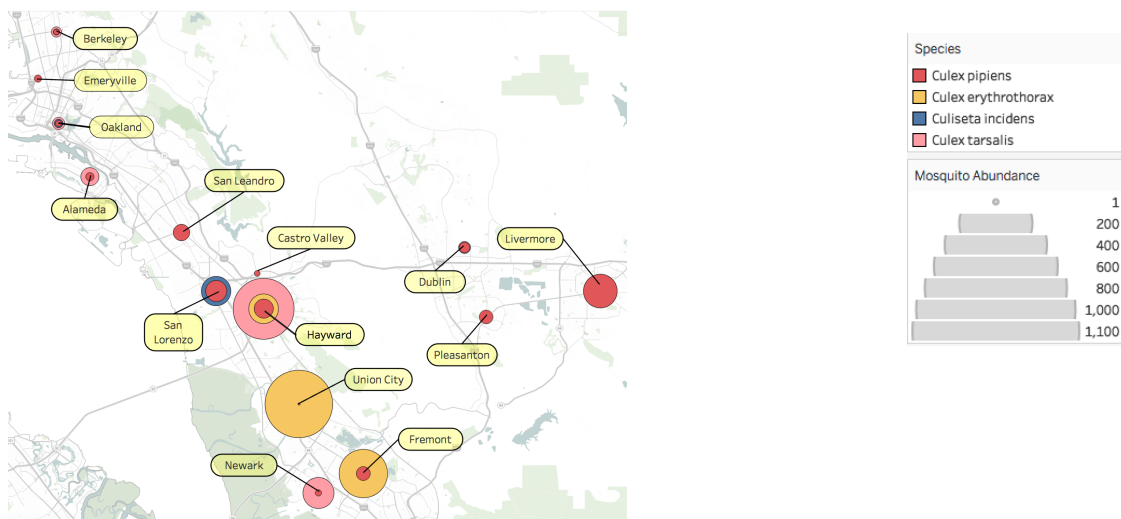


Figure 1. Geospatial distribution of the most prevalent mosquito species collected in each city during the month of June 2017. Larger diameter circles indicate higher numbers of mosquitoes while color of the nested circles indicate the species.

A

June Mosquito Abundance (CO₂ Traps)

B

June Mosquito Abundance (NJLT Traps)



Figure 2. Abundance of the most prevalent mosquito species collected in Alameda County using CDC EVS CO₂ traps (A) and NJLT (B) during the month of June for 2015 (green line), 2016 (yellow line) and 2017 (red line).

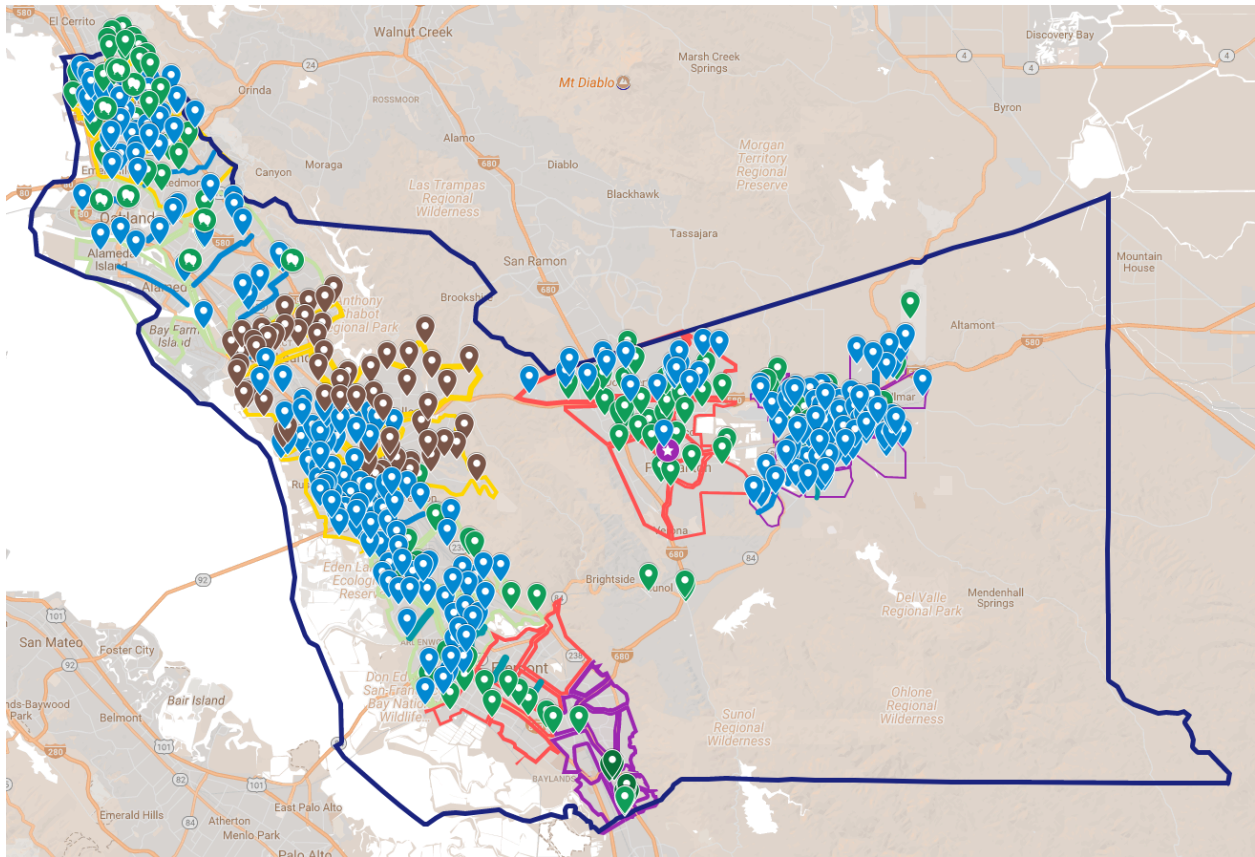
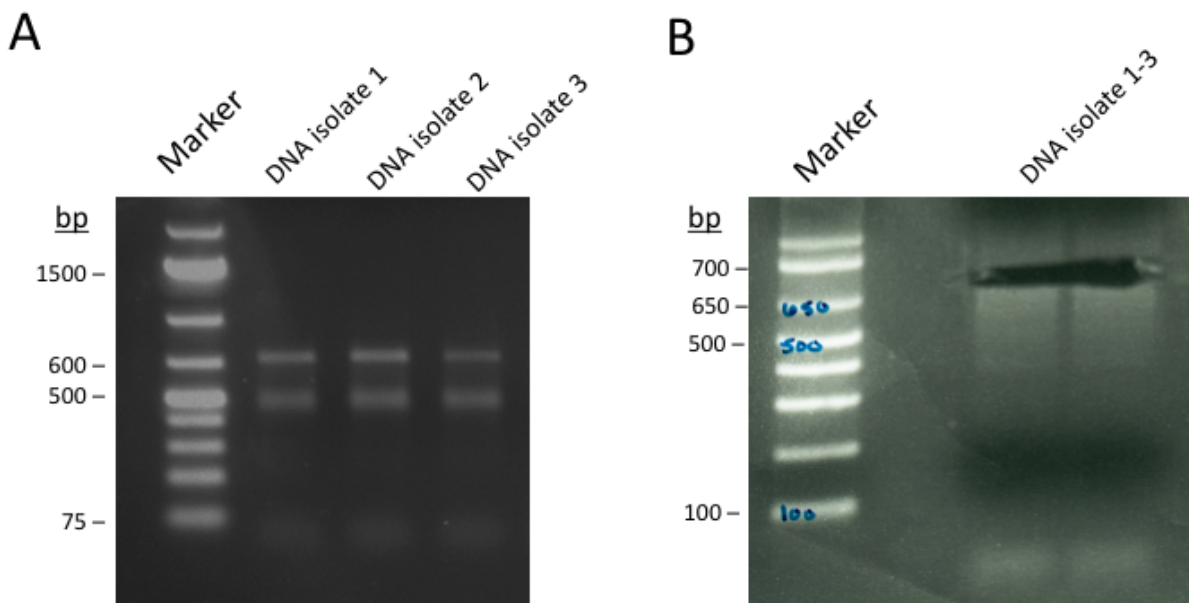


Figure 3. Invasive *Aedes* Trap Network. Trap sites were identified using Google Maps Street View and trap density determined by assessing the relative risk of invasive *Aedes* mosquitoes becoming established in Alameda County. For example, the cities of Fremont and Livermore are warmer than Berkeley, and thus more likely to support mosquito breeding. Consequently, higher numbers of traps per square mile were placed in Fremont and Livermore compared to Berkeley. To ensure appropriate trap density, polygons were set onto the map to indicate how many traps should be placed in the area, and to establish the trap deployment / inspection schedule (e.g. traps in yellow polygons will be placed during the first week of July and inspected during the first week of subsequent months). Trap locations have not yet been finalized for some regions (e.g. Alameda, Oakland, Pleasanton and Fremont).



C

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CLUSTAL multiple sequence alignment by MUSCLE (3.8)

PCR2_VF1_2017      ---ACTCTT-CCTAATTTGGGCACATGGGGGGCATAGCTCGGCACAGCACTTAGCCT
GQ922621.1         GGCACCTTTACCTAATTTGGGCACATGGGGGGCATAGC-CGGCACAGCACTTAGCCT
*****

PCR2_VF1_2017      TCTAATCCGGCGAAGTACTAGGACAGCCGGAACTCTCTTAGGAGACGACCAATTTCAA
GQ922621.1         TCTAATCCGGCGAAGTACTAGGACAGCCGGAACTCTCTTAGGAGACGACCAATTTCAA
*****

PCR2_VF1_2017      TGTAAATCGTCACAGCCCATGCTTTCGTCAATACTCTTTATAGTTATACCCATCATGAT
GQ922621.1         TGTAAATCGTCACAGCCCATGCTTTCGTCAATACTCTTTATAGTTATACCCATCATGAT
*****

PCR2_VF1_2017      CGGTGGCTTCGGAAACTGACTAGTCCCGCTTATAATCGGTGGCCGACATAGCATTCC
GQ922621.1         CGGTGGCTTCGGAAACTGACTAGTCCCGCTTATAATCGGTGGCCGACATAGCATTCC
*****

PCR2_VF1_2017      CCGCATAAATAACATAAGCTTCTGACTCCTCCCTCCTCTCTCTCTACTAGCCTC
GQ922621.1         CCGCATAAATAACATAAGCTTCTGACTCCTCCCTCCTCTCTCTCTCTACTAGCCTC
*****

PCR2_VF1_2017      ATCTACCGTAGAAGCTGGGGCCGGCACAGGATGGACAGTTACCCCTTTAGCCGGCAA
GQ922621.1         ATCTACCGTAGAAGCTGGGGCCGGCACAGGATGGACAGTTACCCCTTTAGCCGGCAA
*****

PCR2_VF1_2017      CCTAGCCACGCTGGCGCATCAGTAGACTAGCCATCTTTTCATTACACTTAGCAGGTGT
GQ922621.1         CCTAGCCACGCTGGCGCATCAGTAGACTAGCCATCTTTTCATTACACTTAGCAGGTGT
*****

PCR2_VF1_2017      TTCTCCATTCTAGGAGCCATCACTTTATCACTACCATCATCAACATAAAACCCCGCG
GQ922621.1         TTCTCCATTCTAGGAGCCATCACTTTATCACTACCATCATCAACATAAAACCCCGCG
*****

PCR2_VF1_2017      ACTGTCACAATACCAAACACCCCTATTGATGATCCGCTCTTACTACGCTACTACT
GQ922621.1         ACTGTCACAATACCAAACACCCCTATTGATGATCCGCTCTTACTACGCTACTACT
*****

PCR2_VF1_2017      ACTCTCTCTCTTACCCGCTCTAGCAGCTGGGATTACCATACTACTTACCGACCGCAACT
GQ922621.1         ACTCTCTCTCTTACCCGCTCTAGCAGCTGGGATTACCATACTACTTACCGACCGCAACT
*****

PCR2_VF1_2017      TAACACCACATCTTCGACCCAGCTGGAGGAGGAGACCAATCTATACCAACACCTATT
GQ922621.1         TAACACCACATCTTCGACCCAGCTGGAGGAGGAGACCAATCTATACCAACACCTATT
*****

PCR2_VF1_2017      CTGATCTTTGGCCACCCAA-----
GQ922621.1         CTGATCTTTGGCCACCCAA-----
*****
```

Figure 4. Bloodmeal identification assay. (A) Image of an agarose gel showing PCR products from step two of the nested PCR protocol. Triplicate samples DNA were isolated from rooster blood and PCR primers used to amplify the *mtCOI* gene. DNA bands were expected at 600 bp, however 500 bp bands were also observed. (B) Image of agarose gel showing the PCR products that were excised from the gel for DNA sequencing. (C) MUSCLE alignment of the sequenced PCR product and *Gallus gallus* (rooster) *mtCOI* gene (GenBank: GQ922621.1). There was 99.41 % sequence identity between the PCR product that was sequenced and *Gallus gallus mtCOI*.

Submitted respectfully by Eric Haas-Stapleton, PhD on July 6, 2017.

3. PUBLIC EDUCATION

A. Upcoming Events

- **Downtown Alameda's Art & Wine Faire** (Park St. Business District, Downtown Alameda) - Saturday, July 29th & Sunday, July 30th
- **Urban Shield Gray Command Community Preparedness Fair** (3 Crosses Church, Castro Valley) - Saturday, September 9th

B. Google Analytics

	June 2017	May 2017	June 2016
Users	1,320	1,662	1,589
Number of Sessions	1,490	1,967	1,816
Sessions by New Visitors	1,274 (85.5%)	1,598 (81.2%)	1,526 (84%)
Pageviews	2,892	4,037	3,331
Average Session Duration	1 minutes 43 seconds	2 minutes 2 seconds	1 minutes 39 seconds
Top Cities	San Francisco (7.4%), Oakland (5.4%), Hayward (3.5%), Los Angeles (3.1%), San Jose (3%)	San Francisco (8.4%), Oakland (7.6%), Berkeley (4.5%), Hayward (4.4%), Fremont (3.6%)	Not Set (8.6%), San Francisco (6.3%), Oakland (5.7%), Hayward (5.4%), Fremont (2.8%)
Top Pages	CA Species (19.2%), Homepage (17.4%), Mosquitofish Request (8.1%), Education (8%), Report Mosquito Problem (5.4%)	Homepage (17.3%), CA Species (15.4%), Mosquitofish Request (8.1%), Education (6.8%), Report Mosquito Problem (6.7%)	Homepage (27.4%), CA Species (15.4%), Mosquitofish Request (7.6%), Education (5%), Mosquito Life Cycle (5%)

C. Facebook

	June 2017	May 2017
Total Posts	10	8
Number Reached	417	377
Most Popular	Link to NPR insect repellent article	CDPH Press Release: CA urged to remove standing water
Total Number of "Likes"	128	123

D. Twitter

	June 2017	May 2017
Total Tweets	14	10
Tweet Impressions	1,407	1,674
Top Tweet (# Impressions)	Mosquito control is often required to ensure rehabilitation of #wetlands is successful (254)	Report dead birds to WNV hotline (144)
Profile Visits	157	38
New Followers (Total Followers)	3 (485)	7 (482)