

AGENDA

1042nd MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

MARCH 8TH, 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
Jan O. Washburn, City of Oakland
Robert Dickinson, City of Piedmont
Ed Hernandez, City of San Leandro
Ronald Quinn, City of Union City

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 1041st meeting held February 8th, 2017 (**Board action required**)
5. LAFCo (Local Agency Formation Commission) Special District Alternate Seat Election May 10th 2017 (**Board action required**)
 - a. Nomination for incumbent Georjean Vonheeder-Leopold of Dublin-San Ramon Sanitary District, if no other nominations are provided
 - b. ACMAD Presiding Officer designation
 - i. Presiding Officer: ACMAD Board President Kathy Narum
 - ii. Presiding Officer Alternate: ACMAD Board Vice-President Elisa Marquez
6. Presentation of a report detailing the cost to the District for one month of 100% health care dependent coverage in January 2017, and possible District repayment to affected employees (**Board action required**)
7. Report from the Finance Committee regarding the 1st draft of the 2017-18 budget (Information only)

8. Financial Reports:

- a. Review of warrants dated February 15, 2017 numbering 037717 through 040017 amounting to \$116,690.98 and warrants dated February 28, 2017 numbering 040117 through 043217 amounting to \$128,355.60 (Information only).
- b. Review of Budget as of February 28, 2017. (Information only).
- c. Investments, Reserves, and Cash Balance as of February 28, 2017.

9. Presentation of the Monthly Staff Report for February 2017 (Information only).

10. Presentation of the Manager's Report for February 2017 (Information only).

- a. AMCA 2017 Annual Meeting in San Diego
- b. Annual VCJPA workshop in Walnut Creek
- c. MVCAC 2017 Annual Meeting in San Diego (upcoming)
- d. Castro Valley Rotary Club Presentation
- e. Legislative Day (MVCAC sponsored bills: AB 527 UAS (drone) regulations, SB 382 Mosquito Research Funding)
- f. AB 1661 requires all Trustees to attend Harassment & Discrimination Training as of January 1 2017.
- g. CA Supreme Court rules private email accounts subject to CA Public Records Act
- h. San Francisco Bay Restoration Authority appointed Erika Castillo to the Advisory Committee for a 4-year term
- i. Met with East Bay Regional Park District (EBRPD) regarding mosquito control at Coyote Hills and other EBRPD properties

11. Board President asks for reports on conferences and seminars attended by Trustees.

12. Board President asks for announcements from members of the Board.

13. Board President asks trustees for items to be added to the agenda for the next Board meeting.

14. 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: 1042.4

MINUTES

**1041st MEETING OF THE BOARD OF TRUSTEES
OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT**

FEBRUARY 8TH, 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
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Betsy Cooley, City of Emeryville
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Eric Hentschke, City of Newark
Jan O. Washburn, City of Oakland
Robert Dickinson, City of Piedmont
Ed Hernandez, City of San Leandro
Ronald Quinn, City of Union City

Board President Narum called the regularly scheduled Board meeting to order at 5:00 P.M.

Trustees, Narum, Marquez, Poulson, Izquierdo, Guarienti, Cooley, Young, Doggett, Hentschke, Dickinson, and Hernandez were present; Trustees Washburn and Quinn were absent. Trustee Beatty arrived at 5:15 P.M.

Board President Narum invited members of the public to speak on any issue relevant to the District, Nikki Apura from Maze & Associates was present.

Board President Narum welcomed the new San Leandro Trustee, Ed Hernandez, to the Board. Trustee Hernandez provided a brief introduction, followed by each Trustee.

The Board approved the minutes of the 1040th meeting held January 11th, 2017. (Doggett, Marquez)– unanimous; Trustees Beatty, Dickinson, & Hernandez -- abstained.

Nikki Apura presented the Financial Audit and Memorandum on Internal Controls for fiscal year 2015-2016. Trustee Hernandez asked where to find information on the unfunded liability (in the report), requested clarification on salary information presenting in this report compared the board report (2105-16 versus tracking the current expenses), and requested further information on the overfunding nature of the OPEB account (in the report and described by the District Manager). Trustee Dickinson also mentioned the overfunded

nature of the OPEB fund, opined on the high amount of the CalPERS discount rate, and assisted in the explanation and navigation of the report to Trustees. Board President Narum also requested where to find information on the pension liability (in the report). Trustee Guarienti requested clarification on aspects of the report pertaining to prior period adjustments (Doggett, Beatty) – unanimous

After an explanation by the District Manager, the Board approved resolution 1041-1 approving a new cap for CalPERS health benefits in the 100/90 formula (Marquez, Guarienti)– unanimous. Trustee Hernandez asked how much the CalPERS resolution change (employee dependents were erroneously given 100% coverage for one month, which staff is repaying) will cost the District (around \$2,000). He then requested a report on the upcoming Board meeting regarding this cost.

The Board authorized the disposal of two fixed assets: a 2000 Ford Explorer and a 2003 Ford Ranger (Dickinson, Beatty) – unanimous.

Board President Narum presented the President's Award Plaque to Past Board President Richard Guarienti, who offered his appreciation to the Board and listed a few of its recent accomplishments by the finance & policy committees.

The Board reviewed the budget summary received as of January, 31th, 2016, Trustee Marquez requested that the District buy from local vendors (especially Hayward) whenever possible. She also pointed out a typo on the warrant page (PFM is not office supplies, it should be "Quill"), and requested staff initials be placed after travel reimbursements. Trustee Dickinson asked what "VCJPA" stood for (Vector Control Joint Powers Authority) and where our deposits come from (possibly only accounting journal entries, or interest).

The District Manager presented the Staff report for January 2017. Trustee Dickinson requested that we promote our lab publications more visibly via social media. Trustee Hernandez asked what is involved at our public education events (general mosquito and District information). Trustee Beatty asked where the weather data is coming from (a weather station is located at the District). Trustee Marquez asked what SLE, WEE stand for. Trustee Beatty answered that this stands for the mosquito-borne diseases: St. Louis Encephalitis, Western Equine Encephalitis. Trustee Guarienti requested more information on the nature of the workers' compensation injury and pointed out a typo on the lab portion of the report (year-to-date should read 58% of the year, not 50%).

The District Manager presented the Manager's report for January 2017. Trustees Young, Beatty, Guarienti, Hernandez, and Board President Narum expressed interest in attending the annual ACSDA dinner. Trustee Dickinson volunteered Trustee Hernandez to join the Finance Committee prior to the March 8th Board meeting at 4:00 P.M. Board President Narum suggested a mobile app for mosquito service request (the District Manager will consider this), and she requested that any seasonal job openings be posted through the District's social media. Trustee Hernandez offered his expertise related to office technologies.

Board President Narum asked for reports on conferences and seminars attended by Trustees, there were none.

Board President Narum asked for announcement from the Board, there were none.

Board President Narum asked trustees for items to be added to the agenda for the next Board meeting, Trustee Hernandez would like to see the cost associated with the 100% health care coverage for one month, because of the CalPERS resolution.

The meeting adjourned at 6:09 P.M.

Respectfully submitted,

Approved as written and/or corrected
at the 1042nd meeting of the Board of
Trustees held March 8th, 2017

Kathy Narum, President
BOARD OF TRUSTEES

Wendi Poulson, Secretary
BOARD OF TRUSTEES

Alameda
LAFCO

ALAMEDA LOCAL AGENCY FORMATION COMMISSION
1221 OAK STREET, SUITE 555 * OAKLAND, CA 94612
(510) 271-5142 FAX (510) 272-3784
WWW.ACGOV.ORG/LAFCO

Members

Ayn Wieskamp, Vice Chair
Special District Member

Nate Miley
County Member

John Marchand, Chair
City Member

Sblend Sblendorio
Public Member

Ralph Johnson
Special District Member

Scott Haggerty
County Member

Jerry Thorne
City Member

Alternates

Georgean Vonheeder-Leopold
Special District Member

Wilma Chan
County Member

David Haubert
City Member

Tom Pico
Public Member

Executive Officer

Mona Palacios

February 10, 2017

Board Presidents
Independent Special District Selection Committee

Subject: Alameda LAFCo – Notice of Alternate Special District Seat Term Expiration

Dear Committee Members:

This letter serves as notice that the term of the Alternate Special District Member on the Alameda Local Agency Formation Commission (LAFCo) will expire on May 1, 2017 (the first Monday in May). Therefore, Alameda LAFCo, in conjunction with the Alameda County Chapter of the California Special Districts Association, is calling a meeting of the Alameda County Independent Special District Selection Committee (ISDSC) for **Wednesday, May 10, 2017 at 10 am**, at the **East Bay Regional Park District, 2950 Peralta Oaks Court, Oakland, CA 94605**. Candidate nominations are **due Friday, May 5, 2017**. Please note that the incumbent, Georgean Vonheeder-Leopold, has indicated that she plans to seek re-election.

Alameda LAFCo's mission is to work for the citizens and government agencies of Alameda County by encouraging efficient municipal services, balancing infrastructure needs for sustainable growth, and conserving the environment and public resources such as prime agricultural and open space land. Being on LAFCo offers an opportunity for special districts to have a voice in governmental reorganization issues potentially affecting them, as well as the County overall. The independent special districts in Alameda County have had two regular seats and one alternate seat on Alameda LAFCo since July 1994.

The purpose of the ISDSC is to elect special district members to LAFCo. The ISDSC consists of the presiding officers of the legislative bodies of each independent special district in Alameda County. Pursuant to Government Code §56332 and the ISDSC rules, a district's Board may appoint one of its members to attend the meeting if the presiding officer is unable to attend. For your information, enclosed are the ISDSC's rules (Attachment 1) and Government Code Section 56332 (Attachment 2).

For this election each independent special district is entitled to nominate one Board Member. For the alternate seat, nominees can be from either enterprise or non-enterprise districts. The nominees must meet the eligibility requirements outlined in Section VI of the ISDSC's rules. A nomination and voting delegate form is enclosed for your use (Attachment 3). Eligible nominees may circulate a statement of qualifications prior to or at the May 10th ISDSC meeting.

Per the ISDSC’s rules, any district nominating a candidate must ratify that nomination by Board resolution. Furthermore, upon nomination, the nominating district must provide written notice to all other districts of their candidate selection. No resolution is needed from a district that does not wish to nominate a candidate. Attached is a list of each district’s contact information (Attachment 4).

Please note the following timeline:

Deadline	Action
Friday, May 5, 2017	Nominations due from each district. Please complete and return the attached form to Alameda LAFCo. <i>Please note that pursuant to Government Code §56332, “if only one candidate is nominated for a vacant seat, that candidate shall be deemed selected, with no further proceedings.”</i>
Friday, May 5, 2017	Each district submits the name of the presiding officer or designee (must be an elected board member) who will be voting at the May 10 th meeting. Please complete and return the attached form to Alameda LAFCo.
Before Wednesday, May 10, 2017	All nominating agencies must ratify their district’s nominee via Board resolution and send a notice of the nomination to the presiding officers of all the other districts (see attached contact information). Please submit a copy of the resolution to Alameda LAFCo.
Wednesday, May 10, 2017 10 am	Independent Special Districts Selection Committee meeting at the East Bay Regional Park District, 2950 Peralta Oaks Court, Oakland.

Please contact me should you have any questions at (510) 272-3894 or mona.palacios@acgov.org.

Sincerely,



Mona Palacios
 Executive Officer

Attachments:

1. ISDSC Rules
2. Government Code Section 56332
3. Nomination and Voting Delegate Form
4. Special District Contact Information

V:\LAF\Special District LAFCo Elections\May 2017, alternate\term expiration notice to ISDSC.doc

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| c: Ryan Clausnitzer, Alameda County Mosquito Abatement District
Robert Shaver, Alameda County Water District
Katherine Boxer, Alameda County Resource Conservation District
Roland Williams, Castro Valley Sanitary District
James E.T. Jackson, City of Alameda Health Care District
Daniel McIntyre, Dublin San Ramon Services District
Alex Coates, East Bay Municipal Utility District
Bob Doyle, East Bay Regional Park District
Dev Mahadevan, Eden Township Hospital District | Tara Reyes, Fairview Fire Protection District
Paul McCreary, Hayward Area Recreation & Park District
Tim Barry, Livermore Area Recreation & Park District
Jason Warner, Oro Loma Sanitary District
Paul Eldredge, Union Sanitary District
Nancy Farber, Washington Township Hospital District
Stacy Marcoux, Alameda Co. Special Districts Assn. |
|--|--|

Revised 1/14/04

**RULES
FOR THE LAFCO
INDEPENDENT SPECIAL DISTRICT SELECTION COMMITTEE**

Adopted April 13, 1994

By: Alameda County Chapter, California Special Districts Association

SECTION I PURPOSE

The purpose of the Independent Special District Selection Committee (ISDSC) shall be to appoint the regular and alternate special district members to the Alameda County Local Agency Formation Commission (LAFCo) whenever a vacancy exists among members representing independent special districts (Government Code Section 56332).

SECTION II MEMBERSHIP

The ISDSC shall be composed of the presiding officer of the legislative body of each independent special district either located wholly within Alameda County or containing territory within Alameda County that represents 50% or more of the assessed value of taxable property of the district. The district may appoint one of its members as an alternate ISDSC member in the event the presiding officer is unavailable (Government Code Section 56332).

SECTION III MEETINGS

The LAFCo Executive Officer shall give written notice to the presiding officer of each eligible independent special district that a meeting of the ISDSC will be held on a specified date and at a specified time and place pursuant to:

- A. A vacancy existing among the members or alternate member representing independent special districts upon the Commission; or
- B. Receipt of a written request by one or more members of the ISDSC representing districts having 10% or more of the assessed value of taxable property within Alameda County (Government Code Section 56332).

All meetings of the ISDSC shall be open meetings and comply with all applicable provisions of the Ralph M. Brown Act.

SECTION IV QUORUM

Each presiding officer or alternate member attending the meeting shall be required to register their attendance. Members representing a majority of the eligible districts shall constitute a quorum for the conduct of the ISDSC business. No meeting shall be convened by the LAFCo Executive Office prior to establishing a quorum.

SECTION V VOTING

Each member of the ISDSC shall be entitled to one vote for each independent special district of which he or she is the presiding officer (Government Code Section 56332).

SECTION VI ELIGIBILITY

To be eligible for nomination and selection to the Alameda County Local Agency Formation Commission, an individual:

- A. Must be an elected or appointed independent special district officer within Alameda County (Government Code Section 563323);
- B. Must be a resident of Alameda County (Government Code Section 563323);
- C. Must not be a member of the legislative body of a city or county (Government Code Section 563323);
- D. Must act in such a manner so as to represent the diverse interests of all agencies, not his or her individual district; and
- E. Must be willing to make a time commitment to fulfilling his or her county-wide role representing all special districts.

An elected or appointed independent special district board member who is an employee of the State of California, a county, a city, or a special district is eligible for nomination and selection to the Commission as a special district representative (Government Code Section 563323).

SECTION VII SEATING DESIGNATION

The seating of special district representatives on the Alameda County Local Agency Formation Commission shall be in accordance with the following designations:

- 1. One regular seat shall be designated as an "Enterprise District" seat;
- 2. One regular seat shall be designated as a "Non-Enterprise District" seat; and

3. One alternate seat shall be designated from either an Enterprise or Non-Enterprise district.

An "Enterprise" district is defined as any jurisdiction that derives the majority of its total revenues from user fees and/or service charges.

A "Non-Enterprise" district is defined as any jurisdiction that derives the majority of its total revenues from property taxes.

SECTION VIII NOMINATING PROCESS

Each independent special district shall be entitled to nominate a maximum of one board member from any district.

Each special district board shall determine its own internal process for selecting a name to be placed in nomination and for ensuring said nominee meets the eligibility criteria as set forth in Section VI.

- Districts are required to ratify said nominee by adoption of a board resolution.

Upon selection of a district nominee, the presiding officer of the district shall provide written notification of their nominee to the presiding officers of all other independent special districts.

An eligible district nominee may circulate a statement of his/her qualifications prior to the date of the ISDSC meeting.

SECTION IX BALLOTING PROCESS

At the meeting of the ISDSC, the balloting shall be conducted in accordance with the following:

- A. If vacant, the first balloting shall be for selection of the "Enterprise District" representative. The candidate receiving a simple majority shall be declared the winner. In the event of a tie or no majority winner, a run-off ballot(s) shall be conducted.
- B. If vacant, the second balloting shall be for selection of the "Non-Enterprise District" representative. The candidate receiving a simple majority shall be declared the winner. In the event of a tie or no majority winner, a run-off ballot(s) shall be conducted.
- C. If vacant, the third balloting shall be for selection of the alternate representative. The candidate receiving a simple majority shall be declared the winner. In the event of a tie or no majority winner, a run-off ballot(s) shall be conducted.

When previous balloting has taken place for Enterprise and/or Non-Enterprise vacancies, the ballot for the alternate representative shall also include the names of all non-winning candidates from the other ballots, if the candidate so desires.

Upon completion of the balloting, the ISDSC shall provide written notification to the LAFCo Executive Officer of the name(s) of the Committee's appointment(s) to the Commission.

SECTION X ALTERNATE NOMINATING AND BALLOTING PROCESS

In the event that the LAFCo Executive Officer determines that securing a quorum of ISDSC members for a meeting is not feasible, the LAFCo Executive Officer may conduct business of the ISDSC in writing (Government Code Section 56332).

SECTION XI TERMS OF OFFICE

Regular representatives shall serve staggered four year terms. The alternate representative shall serve a four year term.

If a representative or alternate is unable to complete a full term, and more than one year is remaining in the uncompleted term, a nominating and balloting process shall be conducted in accordance with these bylaws.

The expiration date of the term of office of each member shall be the first Monday in May in the year in which the term of the member expires (Government Code Section 56334).

Any district member may be removed at any time and without cause by a majority vote of the ISDSC, as the appointing body (Government Code Section 56334). Failure to attend three regular Commission meetings in a calendar year may be grounds for possible removal by the ISDSC.

SECTION XII MEMBER DISQUALIFICATION

At the time of appointment of a regular member or alternate, the ISDSC may, by majority vote, provide that the member or alternate is disqualified from voting as a member of the Commission on any proposal affecting the district of which the member is a representative (Government Code Section 56332).



State of California

GOVERNMENT CODE

Section 56332

56332. (a) The independent special district selection committee shall consist of the presiding officer of the legislative body of each independent special district. However, if the presiding officer of an independent special district is unable to participate in a meeting or election of the independent special district selection committee, the legislative body of the district may appoint one of its members as an alternate to participate in the selection committee in the presiding officer's place. Those districts shall include districts located wholly within the county and those containing territory within the county representing 50 percent or more of the assessed value of taxable property of the district, as shown on the last equalized county assessment roll. Each member of the committee shall be entitled to one vote for each independent special district of which he or she is the presiding officer or his or her alternate as designated by the governing body. Members representing a majority of the eligible districts shall constitute a quorum.

(b) The executive officer shall call and give written notice of all meetings of the members of the selection committee. A meeting shall be called and held under one of the following circumstances:

(1) Whenever the executive officer anticipates that a vacancy will occur within the next 90 days among the members or alternate member representing independent special districts on the commission.

(2) Whenever a vacancy exists among the members or alternate member representing independent special districts upon the commission.

(3) Upon receipt of a written request by one or more members of the selection committee representing districts having 10 percent or more of the assessed value of taxable property within the county, as shown on the last equalized county assessment roll.

(c) The selection committee shall appoint two regular members and one alternate member to the commission. The members so appointed shall be elected or appointed members of the legislative body of an independent special district residing within the county but shall not be members of the legislative body of a city or county. If one of the regular district members is absent from a commission meeting or disqualifies himself or herself from participating in a meeting, the alternate district member may serve and vote in place of the regular district member for that meeting. Service on the commission by a regular district member shall not disqualify, or be cause for disqualification of, the member from acting on proposals affecting the special district on whose legislative body the member serves. The special district selection committee may, at the time it appoints a member or alternate, provide that the member or alternate

is disqualified from voting on proposals affecting the district on whose legislative body the member serves.

(d) If the office of a regular district member becomes vacant, the alternate member may serve and vote in place of the former regular district member until the appointment and qualification of a regular district member to fill the vacancy.

(e) A majority of the independent special district selection committee may determine to conduct the committee's business by mail, including holding all elections by mailed ballot, pursuant to subdivision (f).

(f) If the independent special district selection committee has determined to conduct the committee's business by mail or if the executive officer determines that a meeting of the special district selection committee, for the purpose of appointing the special district members or filling vacancies, is not feasible, the executive officer shall conduct the business of the committee by mail. Elections by mail shall be conducted as provided in this subdivision.

(1) The executive officer shall prepare and deliver a call for nominations to each eligible district. The presiding officer, or his or her alternate as designated by the governing body, may respond in writing by the date specified in the call for nominations, which date shall be at least 30 days from the date on which the executive officer mailed the call for nominations to the eligible district.

(2) At the end of the nominating period, if only one candidate is nominated for a vacant seat, that candidate shall be deemed appointed. If two or more candidates are nominated, the executive officer shall prepare and deliver one ballot and voting instructions to each eligible district. The ballot shall include the names of all nominees and the office for which each was nominated. Each presiding officer, or his or her alternate as designated by the governing body, shall return the ballot to the executive officer by the date specified in the voting instructions, which date shall be at least 30 days from the date on which the executive officer mailed the ballot to the eligible district.

(3) The call for nominations, ballot, and voting instructions shall be delivered by certified mail to each eligible district. As an alternative to the delivery by certified mail, the executive officer, with prior concurrence of the presiding officer or his or her alternate as designated by the governing body, may transmit materials by electronic mail.

(4) If the executive officer has transmitted the call for nominations or ballot by electronic mail, the presiding officer, or his or her alternate as designated by the governing body, may respond to the executive officer by electronic mail.

(5) Each returned nomination and ballot shall be signed by the presiding officer or his or her alternate as designated by the governing body of the eligible district.

(6) For an election to be valid, at least a quorum of the special districts must submit valid ballots. The candidate receiving the most votes shall be elected, unless another procedure has been adopted by the selection committee. Any nomination and ballot received by the executive officer after the date specified is invalid, provided, however, that if a quorum of ballots is not received by that date, the executive officer shall extend the date to submit ballots by 60 days and notify all districts of the extension.

The executive officer shall announce the results of the election within seven days of the date specified.

(7) All election materials shall be retained by the executive officer for a period of at least six months after the announcement of the election results.

(g) For purposes of this section, "executive officer" means the executive officer or designee as authorized by the commission.

(Amended by Stats. 2015, Ch. 114, Sec. 8. (AB 1532) Effective January 1, 2016.)

**Alameda LAFCo
Special District Alternate Seat Election 2017**

Please complete the following information and
return by **Friday, May 5, 2017 to:**

Mona Palacios, Executive Officer
Alameda LAFCo
1221 Oak Street, #555
Oakland, CA 94612
Telephone: (510) 272-3894
Fax: (510) 272-3784
Email: mona.palacios@acgov.org

Name of presiding officer or designee who will attend and vote at the May 10, 2017 ISDSC election meeting at 10 am at the East Bay Regional Park District located at 2950 Peralta Oaks Court, in Oakland.

NAME: _____

DISTRICT: _____

NOMINATING DISTRICTS ONLY

You may nominate a maximum of one Board member for the LAFCo alternate special district seat and the nomination must be ratified by a Board resolution prior to May 10, 2017.*

Candidate Name for Alternate Seat:

**** If your district is nominating a candidate, you must notify all 14 other independent district presiding officers by mail, fax or e-mail (see enclosed list of contact information).***

Agenda item: 1042.6

Cost of 100% dependent health coverage

Why did the District cover dependents for January?

Resolution 879-1 set a cap of 90% on dependent coverage using the most used health plan and established health vesting for retired employees. Since a majority of employees use Kaiser, the District pays 100% for the employee, 90% for dependent care at that rate. If an employee chooses to use an insurance other than Kaiser, they must pay the difference. Since the rate changes every year in January, the District must pass a resolution in November updating the matching payments to these rate changes.

The resolution passed in November of 2016, 1038-1, was not accepted as the format changed earlier in the year. The board then passed 1039-1 in December with the new format and with language that will automatically update health payments every year to the Kaiser rate (if that is what most employees use) without the use of an annual resolution.

While calculating the health payments to CalPERS in January, we discovered that this new resolution did not specify language capping dependent health care at 90%, so the District was required to pay the difference. Thus, employees who have dependents, were not deducted in January for their dependent health care. To correct this, the Board passed 1041-1 re-establishing the 90% dependent care cap in February.

How did employees pay back the District?

Affected employees were notified via a memo that they were not deducted health care in January, but this will be paid back to the District in two installments on their February paychecks.

Cost breakdown:

Eight employees have dependents. The PERS Kaiser rate in 2017 is \$1,906.81 for a family, \$1,466.78 for a couple. The PERS Kaiser cap (90%) in 2017 is \$1,789.46 for a family, \$1,393.44 for a couple. The difference is either \$117.35 for a family, \$73.34 for a couple. The total difference for all employees equaled **\$806.77** for the month of January which has already been paid back to the District.

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

WAR NO	PAYEE	ACCT NO	AMT OF CHARGE	AMT OF WARRANT
037717	Biological Specialist	600001	2,704.57	
037717	Mosq Control Tech	"	2,254.66	
037717	Lab Seasonal	"	741.58	
037717	Vector Biologist	600001	2,790.59	
037717	Vector Biologist	"	2,881.08	
037717	Mosq Control Tech	"	2,220.81	
037717	Regulatory & Public Affairs Director	600001	2,770.39	
037717	District Manager	"	3,591.47	
037717	Asst Mosq Control Tech	600001	2,169.42	
037717	IT Director	"	3,010.47	
037717	Lab Director	600001	2,926.97	
037717	Field Operations Supervisor	"	3,539.51	
037717	Office Assistant	600001	1,661.84	
037717	Vector Biologist	"	3,539.76	
037717	Mosq Control Tech	"	2,570.70	
037717	Mosq Control Tech	"	2,225.01	
037717	Mechanical Specialist	"	3,183.83	
037717	IRS	600001	7,402.04	
037717	Federal tax withheld (payroll)	600001	841.86	
037717	Medicare Tax Withheld (payroll)	600401	841.86	
037717	District Contribution to Medicare (payroll)	600001	2,261.65	
037717	State of California	600001	515.11	56,645.18
037717	EDD	600001	16.00	
037817	Public Employees' Retirement System	600001	4,355.17	
	Employee Contributions	600201	5,480.74	9,851.91
	Employee Paid Member Contributions, 7% & 6.5%	600001		150.00
037917	Aetna Life & Annuity	600001		2,255.00
038017	CALPERS 457 Plan	600601		4,411.85
038117	Delta Dental Plan	600601		651.36
038217	Vision Service Plan	600601		78.71
038317	The Hartford	620141.1		54.84
038417	Airgas	610461.1		7,737.40
038517	Adapco	620021		300.00
038617	Bayside	610141		734.66
038717	Bay Area Distributing	610011	257.96	
038817	Cintas	610001	47.29	305.25
	Laundry service	610122		195.00
038917	Corporate Park Landscaping	610461.6	40.76	
039017	Grainger	620261	14.74	55.50
	Shop supplies	610021		679.59
039117	Hayward Water System	620041		1,196.00
039217	KBA Docusys	610141		951.69
039317	Liewer Enterprises Inc.	800004		250.00
039417	Low, Joshua	610191.7		285.25
039517	Matthes, Michelle	610261		1,648.28
039617	PFM Asset Management	610021		480.97
039717	PG & E	610261.7		16,250.00
039817	SCI Consulting group	610021		197.45
039917	Waste Management			
	Administration of Mosquito and Disease Control Assessment			
	Garbage, January service			

WAR NO	PAYEE	ACCT NO	AMT OF CHARGE	AMT OF WARRANT
040017	U.S Bank			
	Amazon - Boots	610001	89.99	
	Office Depot - Planner	620041	27.43	
	Acco Brands - Appointment book	620041	31.26	
	Cal Chamber - Employee hiring booklets	620041	86.71	
	Canon Financial - Canon Copier rental	620041	341.01	
	Amazon - Headset for phone	620041	181.03	
	Amazon - Black-light monitor	620042	192.56	
	My Choice Software - Software	620042	59.99	
	Stericycle - Pool testing	620141.3	188.53	
	Fisher Scientific - Lab supplies	620141.3	210.72	
	Fisher Scientific - Gold buffer	620141.3	176.74	
	Fisher Scientific - Isotemp	620141.5	1,609.87	
	Amazon - Toner Cartridge	620141.5	130.99	
	Fisher Scientific - Desiccator plain	620141.5	286.20	
	The Home Depot - Recycling bin	620141.5	64.76	
	Smart N Final - Water	620141.7	29.52	
	The Home Depot - (6) buckets	620141.7	101.84	
	Lifetech - Supplies for the colony	620141.7	308.35	
	Lampire - Chicken blood	620141.7	223.50	
	Fisher Scientific - Lab supplies	620141.7	88.46	
	Fisher Scientific - Well plate	620141.8	152.21	
	CBI Parallels - Desktop upgrade	620141.8	49.99	
	Amazon - Solar lights	610122.2	42.99	
	The Home Depot - Black fabric	610122.2	47.44	
	Amazon - Solar lights	610122.2	44.54	
	AJR Door Service - Door service	610122.2	390.00	
	Acme - Door work	610122.2	163.00	
	The Ford Store - Parts for truck	610141	175.41	
	The Ford Store - Parts for truck	610141	44.93	
	Amazon - Replacement Brass	610141	91.96	
	Amazon - Tires for Argo trailer	610141	202.76	
	The Ford Store - Filter Asy	610141	41.34	
	Telepacific - Communications	610022.1	1,084.72	
	GoDaddy - Content Migration	610022.3	99.99	
	GoDaddy - Site lock	610022.3	303.87	
	GoDaddy - Renewal	610022.3	9.99	
	GoDaddy - Content Migration	610022.3	99.99	
	GoDaddy - CREDIT	610022.3	-83.88	
	AMCA - Membership Application	610351	2,000.00	
	Southwest - Flight for conference E.C	610191.3	142.94	
	Southwest - Flight for conference E.H	610191.3	201.70	
	Southwest - Flight for conference A.E	610191.3	201.70	
	Southwest - Flight for conference E.H	610191.3	201.90	
	Southwest - Flight for conference R.F	610191.3	142.94	
	Jetsuitex - Flight for conference R.F	610191.3	79.00	
	Elephant Sushi - Lunch with budget analysis R.C	610191.3	30.99	
	Parking meter - Parking for meeting R.C	610191.3	3.25	
	CSDA - CSDA conference R.C	610191.3	175.00	
	Southwest - Flight for conference D.A	610191.3	201.90	
	Safeway - Board supplies	610191.4	39.44	
	Robert Awards - Plaque for Emeryville & San Leandro	610461.54	195.80	
	Hose & Fittings - Nursery tank pumping	610461.6	287.98	
	Amazon - Water pressure regulator	610461.6	9.84	
	Constant Contract - Contract	610451	20.00	
	Sub-total			11,325.09
	Total			116,690.98

ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT
LIST OF WARRANTS DATED **FEBRUARY 28, 2017.**

WAR NO	PAYEE	FOR	ACCT NO	AMT OF CHARGE	AMT OF WARRANT
040117	Biological Specialist	Total salary less deductions for payroll period	600001	2,834.58	
040117	Mosq Control Tech	"	600001	2,254.67	
040117	Lab Seasonal	"	600001	697.65	
040117	Vector Biologist	"	600001	2,907.83	
040117	Vector Biologist	"	600001	2,881.09	
040117	Mosq Control Tech	"	600001	2,220.81	
040117	Regulatory & Public Affairs Director	"	600001	2,882.79	
040117	District Manager	"	600001	4,117.88	
040117	Asst Mosq Control Tech	"	600001	2,169.41	
040117	IT Director	"	600001	3,144.64	
040117	Lab Director	"	600001	3,121.79	
040117	Field Operations Supervisor	"	600001	3,609.74	
040117	Office Assistant	"	600001	1,661.83	
040117	Vector Biologist	"	600001	3,539.76	
040117	Mosq Control Tech	"	600001	2,570.22	
040117	Mosq Control Tech	"	600001	2,225.01	
040117	Mechanical Specialist	"	600001	3,317.71	
040117	IRS	Federal Tax Withheld	600001	7,899.80	
040117		Medicare Tax Withheld	600001	872.54	
040117		District Contribution to Medicare	600401	872.54	
040117	State of California	State Tax Withheld	600001	2,455.93	
040117	EDD	Ca Disability	600001	535.12	58,793.34
040217	Public Employees' Retirement System	Employees contributions	600001	16.00	
		Employee paid member contributions, 7%, 6.5%	600001	4,355.17	
		District contribution 9.558%, 6.930%	600201	5,480.75	9,851.92
040317	Aetna Life & Annuity	Employee contributions	600001		150.00
040417	CalPERS 457 Plan	Employees contributions - PERS 457	600001		2,255.00
040517	CalPERS	Health insurance	600601		32,339.68
040617	P. Robert Beatty	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
040717	Elizabeth Cooley	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
040817	James Doggett	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
041117	Eric Hentschke	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
041217	Humberto Izquierdo	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
041317	Elisa Marquez	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
041417	Katherine Narum	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
041517	Wendi Poulson	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
041617	Ed Hernandez	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
	Ronald Quinn	Trustee in lieu expenses - 1041st meeting	610191.5		-
	Jan Washburn	Trustee in lieu expenses - 1041st meeting	610191.5		-
041717	George Young	Trustee in lieu expenses - 1041st meeting	610191.5		100.00
041817	Airgas	Dry ice pellets	620141.1		25.30
041917	ACSDA	Annual dinner meeting	610191.3		343.00
042017	AJR Door Service, Inc	Front door	610122.2		7,489.00
042117	Alco Sheet Metal	Service 7 roof top hvac's	610122.2		405.00
042117A	Bayside Locksmith Inc	Lock change on the front door	610122.2		219.99
042217	Cintas	Personal supplies	610001		-
		Laundry service	610011	203.10	203.10
042317	Castillo, Erika	Reimbursement for mileage	610191.3	96.94	
		Reimbursement for shows	610451	75.00	171.94
042417	Employment Development Department	Letter L0421122592	600001		7,633.00
042517	Grainger	Shop supplies	610141		-
			610461.6	296.85	
			620021	-	296.85
042617	MAZE & Associates	Internal Control Report	610261.1		1,165.00
042717	NBC Supply Corp	Shop supplies	610461.6		638.75
042817	Praxair	Lab supplies	620141.7		28.80
042917	PG & E	Utilities	610021		1,433.93
043017	Sonitrol	Monitoring charges and CCTV Fees	620021		921.00
043117	Verizon	Communication expenses	610022.4		557.16
043217	Wright Express	Fuel expenses, statement ended 02-15-17	610191.1		2,233.84
Total Warrants February 28th					128,355.60
Total Warrants February 15th					\$ 116,690.98
Total February Warrants					\$ 245,046.58

Alameda County Mosquito Abatement District Budget Summary
As of February 28, 2017. (8 of 12 mth, 66.67%)

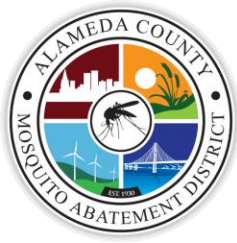
Account #		EXPENDED IN (February)	EXPENDED TO DATE	BUDGETED	BALANCE	% EXPEND ED
SALARY & BENEFITS						
600001	Salary and Wages	\$ 134,909.46	\$ 1,121,755.49	\$ 1,700,594.00	\$ 578,838.51	66%
600401	Contribution to Medicare	\$ 1,714.40	\$ 14,032.90	\$ 24,659.00	\$ 10,626.10	57%
600201	Contribution to Retirement	\$ 10,961.49	\$ 375,782.05	\$ 422,589.00	\$ 46,806.95	89%
600601	Contribution to Health Care	\$ 37,481.60	\$ 303,490.65	\$ 500,000.00	\$ 196,509.35	61%
SERVICE AND SUPPLIES						
610001	Clothing and personal supplies	\$ 137.28	\$ 2,863.28	\$ 8,500.00	\$ 5,636.72	34%
610011	Laundry services and supplies	\$ 461.06	\$ 5,128.72	\$ 9,000.00	\$ 3,871.28	57%
610021	Utilities total	\$ 2,791.94	\$ 18,076.92	\$ 35,900.00	\$ 17,823.08	50%
Communications						
610022.1	Telephone Service & Internet	\$ 1,084.72	\$ 6,852.69	\$ 13,800.00	\$ 6,947.31	50%
610022.3	Website and email hosting	\$ 429.96	\$ 528.33	\$ 850.00	\$ 321.67	62%
610022.4	Cell phone service (Verizon)	\$ 557.16	\$ 4,276.27	\$ 9,000.00	\$ 4,723.73	48%
610141	Maintenance of equipment	\$ 2,242.75	\$ 11,952.01	\$ 45,000.00	\$ 33,047.99	27%
Maintenance of structure and improvements						
610122.1	Landscaping service	\$ 195.00	\$ 1,560.00	\$ 3,600.00	\$ 2,040.00	43%
610122.2	Building Maintenance and repairs	\$ 8,801.96	\$ 13,859.03	\$ 10,000.00	\$ (3,859.03)	139%
610122.3	Yard Maintenance and repairs	\$ -	\$ -	\$ 1,400.00	\$ 1,400.00	0%
Transportation, travel, & training						
610191.1	Fuel and GPS (WexMart)	\$ 2,233.84	\$ 24,139.97	\$ 40,000.00	\$ 15,860.03	60%
610191.3	Meetings, conferences, & travel	\$ 1,821.26	\$ 9,332.75	\$ 35,000.00	\$ 25,667.25	27%
610191.4	Board meeting expenses	\$ 39.44	\$ 228.19	\$ 1,000.00	\$ 771.81	23%
610191.5	Board payments in lieu	\$ 1,200.00	\$ 7,400.00	\$ 16,800.00	\$ 9,400.00	44%
610461.53	Continuing Education fees	\$ -	\$ 145.00	\$ 4,000.00	\$ 3,855.00	4%
610191.6	Training for trustees	\$ -	\$ -	\$ 1,000.00	\$ 1,000.00	0%
610191.7	Staff Training (automotive, IT, staff development)	\$ 285.25	\$ 9,081.48	\$ 80,000.00	\$ 70,918.52	11%
Professional services						
610261.1	Audit	\$ 1,165.00	\$ 13,135.00	\$ 13,000.00	\$ (135.00)	101%
610261.2	Actuarial reports	\$ -	\$ 1,300.00	\$ 3,000.00	\$ 1,700.00	43%
610261.3	Helicopter service	\$ -	\$ -	\$ 30,000.00	\$ 30,000.00	0%
610261.4	Legal services	\$ -	\$ 1,255.84	\$ 20,000.00	\$ 18,744.16	6%
610261.5	MVCAC Research Foundation	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00	0%
610261.6	UC Davis Zika virus vector competency research	\$ -	\$ 7,500.00	\$ 7,500.00	\$ -	100%
610261.7	Tax collection service - SCI	\$ 16,250.00	\$ 32,371.98	\$ 35,000.00	\$ 2,628.02	92%
610261.8	Payroll service	\$ -	\$ 49.95	\$ 6,000.00	\$ 5,950.05	1%
610261.9	Environmental consultant services for regulatory issues	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00	0%
610261.1	HR Services (RGS)	\$ -	\$ 99.90	\$ 25,000.00	\$ 24,900.10	0%
610261.11	OPEB service	\$ 1,648.28	\$ 11,520.90	\$ 22,100.00	\$ 10,579.10	52%
610351	Annual memberships and dues total	\$ 2,000.00	\$ 17,175.00	\$ 22,935.00	\$ 5,760.00	75%
610378	Insurance total	\$ -	\$ 113,867.00	\$ 140,138.00	\$ 26,271.00	81%
610451	Community education total	\$ 95.00	\$ 7,958.66	\$ 35,000.00	\$ 27,041.34	23%
Special expenses						
610461.1	Pesticides	\$ 7,737.40	\$ 42,477.82	\$ 200,000.00	\$ 157,522.18	21%
610461.2	Field supplies (dippers etc)	\$ -	\$ 37.83	\$ 1,000.00	\$ 962.17	4%
610461.4	Fish and Fish Maint.	\$ -	\$ 1,247.02	\$ 4,000.00	\$ 2,752.98	31%
610461.51	Aerial Pool Survey	\$ -	\$ -	\$ 17,000.00	\$ 17,000.00	0%
610461.52	Permits	\$ -	\$ 3,232.00	\$ 3,000.00	\$ (232.00)	108%
610461.54	Board plaques and nameplates	\$ 195.80	\$ 195.80	\$ 1,000.00	\$ 804.20	20%
610461.6	Spray equipment & Safety	\$ 1,274.18	\$ 6,786.27	\$ 14,000.00	\$ 7,213.73	48%
620021	Household expenses total	\$ 1,221.00	\$ 10,002.00	\$ 14,480.00	\$ 4,478.00	69%
620041	Office supplies total	\$ 1,863.44	\$ 11,090.85	\$ 22,400.00	\$ 11,309.15	50%
Information technology						
620042.1	Computers, supplies and software	\$ 252.55	\$ 6,633.74	\$ 15,000.00	\$ 8,366.26	44%
620042.2	Contract services for Computer network	\$ -	\$ 300.00	\$ 4,000.00	\$ 3,700.00	8%
620042.3	Database consultant	\$ -	\$ 4,717.50	\$ 25,000.00	\$ 20,282.50	19%
620141	Laboratory total	\$ 3,730.62	\$ 34,011.33	\$ 88,594.00	\$ 54,582.67	38%
620261	Small tools and instruments	\$ 14.74	\$ 1,957.07	\$ 2,500.00	\$ 542.93	78%
650031.1	Capital expenditures	\$ 250.00	\$ 161,831.47	\$ 295,000.00	\$ 133,168.53	55%
TOTAL EXPENDITURES		\$ 245,046.58	\$ 2,421,240.66	\$ 4,039,339.00	\$ 1,618,098.34	60%
TOTAL WARRANTS		\$ 245,046.58				
Discrepancy from Expenditures and Warrant list		\$ (0.00)				

Investments, Reserves, and Cash Balance

Account #		Activity in February	Activity to Date	Beginning Balance 7/1/16	Current Balance	% change	Cum Prior
Budget Reserves							
800001	Working Capital (Dry Period Cash)	\$ -	\$ -	\$ 2,427,743.00	\$ 2,427,743.00	0.0%	\$ -
800002	Capital Replacement	\$ -	\$ 15,988.18	\$ 544,731.00	\$ 528,742.82	-2.9%	\$ 15,988.18
800003	Public Health	\$ -	\$ -	\$ 500,000.00	\$ 500,000.00	0.0%	\$ -
800004	Contingency	\$ -	\$ -	\$ 25,000.00	\$ 25,000.00	0.0%	\$ -
VCJPA Reserve							
800006	VCJPA Contingency	\$ -	\$ 77,000.00	\$ 210,282.00	\$ 287,282.00	36.6%	\$ 77,000.00

		January Balance	February Balance	% change
Investment Accounts				
800005	LAIF	\$ 150,599.37	\$ 150,599.37	0.0%
	OPEB Fund	\$ 3,946,744.85	\$ 4,022,693.64	-1.9%

	January Balance	February Expenditures	Deposits	February Balance	% change
Bank of America (Payroll Account)				\$ 80,926.25	
County Account	\$ 5,181,245.44	\$ 245,046.58	\$ (116,797.42)	\$ 5,052,996.28	-2.5%



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MONTHLY STAFF REPORT – February 2017

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District Manager

1. OPERATIONS

A. Narrative

OPERATIONS REPORT February 2017

As predicted, female *Culex tarsalis* started showing up in light traps and in CO₂ traps in various parts of the county in February. Mosquito source monitoring by field operations also began detecting early instar *Cx. tarsalis* larvae in sources throughout the district. Field staff began actively treating sources for this species as soon as they were detected. With the extreme rainfall received in the county this season and large amounts of standing water in many sources, the process of inspecting and treating for *Cx. tarsalis* has moved up to the top of the priority list for field operations staff.

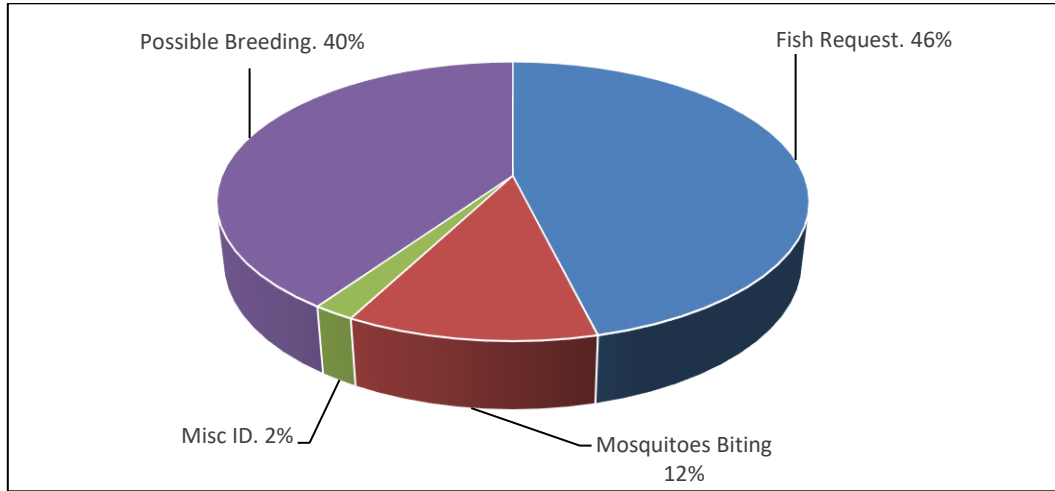
February was also a big month for finalizing treatments for most of ACMAD's winter species (*Aedes squamiger*, *Culiseta inornata* and *Aedes washinoi*). Many sources throughout the county have been treated several times for the afore mentioned species. It is too early in the season to make statements as to the effectiveness of treatment efforts for *Ae. squamiger* and *Ae. washinoi*, but light numbers of adult *Cs. inornata* collected in both light traps and CO₂ traps is a positive indicator that this species has been well controlled by field staff this season. Extensive monitoring, trapping, and service requests in the months of March and April will indicate if similar results are to be had with the efforts toward *Ae. squamiger* and *Ae. washinoi*. Field inspections and post treatment inspections conducted in February look promising. Field staff also continue to monitor and treat for *Aedes sierrensis*. This species tends to emerge around the spring equinox in the later part of March. Efforts toward controlling *Ae. sierrensis* will continue into March.

Service requests for the month of February were below average compared to the last several years. Requests for mosquito fish and requests to inspect possible breeding sources were the dominant calls for February. Of the total requests for service received by ACMAD in February (53), 24 were for mosquito fish, and 21 were for inspections of possible breeding. Only 6 calls were received for mosquitoes biting and half of those were attributed to *Culiseta incidens*. *Cs. incidens* breeds all year around in Alameda County, often in back yard containers, tarps, fountains, and fish ponds. This species is the prevalent mosquito encountered by field staff when planting fish into back-yard ponds and has many opportunities to thrive in back yard sources filled with rain water from this season's extensive storms.

Joseph Huston
Field Operations Supervisor

B. Operational Data

1. Service Requests



February 2017 Operational Data	
Total service requests	53
February- Ten year average	57.6
February- Five year average	66
Last February	144
Range (10 yr) =	29 - 144
Mosquito species attributed to service request	#
<i>Culista incidens</i>	18
<i>Culiseta inornata</i>	1
<i>Culex tarsalis</i>	1

2. Other

3. Number of all injuries during 2017 = 1

4. Activity Report

Vacation Hours Used	44.18
Sick Hours Used	127.30
Workers Comp.	54.20
ETO Used	0
Total Leave	225.68
ETO Hours Accrued	10.78

2. LAB

LAB

Summary

- Weather was cool and rainy, resulting in low mosquito abundance throughout the County during the month of February, with slightly increased opportunities for mosquito surveillance activities relative to January 2017.
- No detections of arboviruses in birds or mosquitoes during February 2017.
- No invasive *Aedes* mosquitoes detected in Alameda County during 2017.
- Mosquito abundance data from 2014 – 2016 and input from Operations Staff regarding the location of important mosquito breeding sources were used to establish CO₂ trap sites for 2017.
- Lab personnel focused upon testing the soon-to-be implemented MapVision database and data visualization software.
- Presentations describing lab data for the upcoming MVCAC conference have been finalized.
- Manuscript describing outcomes of studies on the oviposition bucket that was developed by ACMAD for detecting invasive *Aedes* mosquitoes was submitted to the Journal of the American Mosquito Control Association for peer-review.

Budget

As of February 28, 2017 (month 8 of 12, 67 % of the year), 38 % of the lab budget has been expended.

Mosquito Abundance Monitoring

- **Native mosquito abundance monitoring.**
 - Weather for the month of February continued to be cool with rain, but slightly warmer than January 2017 (minimum and maximum average temperatures of 38.5 °F and 66.8 °F, respectively; average temperature of 54.3 °F; 6.19 inches of rain; 286.7 heat degree days; data from Vantage Pro2 weather station installed at ACMAD headquarters; Figure 1). Days with relatively high temperatures and no rain permitted mosquito abundance monitoring using CO₂ traps.
 - An average of 0.52 mosquitoes were collected per CO₂ trap night (n = 23 CO₂ trap nights during February 2017). New Jersey Light traps (NJLT) are monitored each week of the year. During February, an average of 0.69 mosquitoes were captured per NJLT trap night (n = 392 trap nights). Although the number of mosquitoes per trap night for CO₂ and NJLT were higher in February relative to January, mosquito abundance remains low for the year.
- **Invasive *Aedes* mosquito monitoring** (*prepared by Dereje Alemayehu, Biological Specialist*).

The Lab has continued to deploy traps targeting invasive *Aedes* mosquitoes. However, to date there has been no detection of invasive *Aedes* mosquitoes collected in any of the invasive *Aedes* traps we have deployed throughout the County. For the month of February 2017, we had a total of 105 invasive *Aedes* mosquito traps deployed throughout Alameda County. Out of these 40 traps are autocidal gravid oviposition traps (AGO) and 65 are oviposition bucket traps (OVI). The above figures include the 3 pairs of traps deployed in one city due to reports from Alameda County Public Health Department of human travel-related cases of arboviruses that can be transmitted by invasive *Aedes* mosquitoes. A total of 1 travel-related human cases of arbovirus disease for the month of February, 2017. Table 1 provides a summary of invasive mosquito traps deployed and inspected in February, 2017 throughout Alameda County.

Table 1. Traps used by ACMAD for invasive *Aedes* surveillance.

	AGO	OVI	TOTAL # OF TRAPS
PERMANENT TRAPS	28	28	56
TEMPORAY TRAPS (TRAVEL CASES)	3	3	6
TOTAL TRAP COUNT AS OF 2/28/2017	31	31	62

Arbovirus Monitoring

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

Preparations for Abundance Surveillance during 2017

- All damaged trap motors from the prior year have been repaired. A total of 83 CO₂ traps are available for simultaneous deployment.
- Mosquito abundance data from 2014 – 2016 (Figure 2) and input from Operations Staff regarding the location of important mosquito breeding sources were used to establish CO₂ trap sites for 2017 (Figure 3; n = 168 trap sites). Trap sites from the three years that had fewer than 20 mosquitoes were removed from the surveillance plan for 2017. Highest mosquito abundance occurred at trap sites near the San Francisco Bay and near waste water treatment plants (Figure 3).
- *Breeding and dispersal of Aedes squamiger.* A long-standing concern of Operations are the location and distribution patterns of *Aedes squamiger* in Alameda County. This salt marsh-breeding mosquito is relatively large and an aggressive biter. The females deposit eggs on mud during the early spring – summer, and eggs hatch during winter rains and when high tides flood the marsh. From mid-February to April, and soon after a flooding event, the adults typically emerge en masse. After the females mate with males that emerge early in the season, they fly inland (often along creeks and streams), up to 15 miles in search of a blood meal. Once a sufficient blood meal has been acquired, the female mosquitoes fly back to the salt marsh to lay eggs. Because this mosquito is relatively long-lived (up to 3 months in the wild), it is thought they may exhibit several bouts of oviposition in the marsh, with each requiring a blood meal that is typically acquired inland from marsh breeding sites. Although *Ae. squamiger* is not known to efficiently transmit diseases that affect humans, it is a long-lived, voracious biter. As such, *Ae. squamiger* mosquitoes are considered a public health nuisance. Because *Ae. squamiger* disperse over a broad range, once they emerge, they are very difficult to control. As such, uncontrolled emersions of *Ae. squamiger* result in larger numbers of service requests. If the precise timing of emergence and specific dispersion patterns were known, the cost of controlling this mosquito may be reduced and control improved. To determine with higher temporal and spatial resolution the emergence and dispersion characteristics of *Ae. squamiger*, during the latter part of February, the Operations Supervisor provided the lab with trap site locations to assess (Figure 4). Surveillance at these sites began the final week of February, with no *Ae. squamiger* detected.
- The lab has been testing and providing comment on the beta version of the MapVision database and data visualization software.

Research

- Research was focused upon writing manuscripts describing the outcomes of our studies on pesticide resistance in *Culex erythrothorax* and the modified oviposition trap that was developed by the lab and tested last year in Madera, CA. The oviposition trap manuscript was submitted for peer-review to the Journal of the American Mosquito Control Association.

- PowerPoint presentations for the upcoming Annual Conference of the MVCAC that describe the results of the pesticide resistance study in *Cx. erythrothorax* and the new oviposition trap were prepared and finalized in February.

Figures

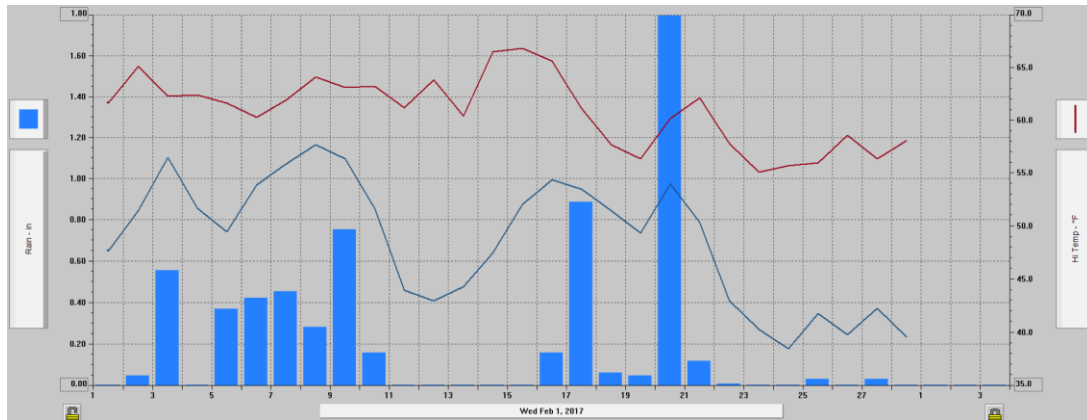


Figure 1. Temperature during the month of February, 2017 (red line is daily high temperature, blue line is daily low temperature) and rainfall (blue bars).

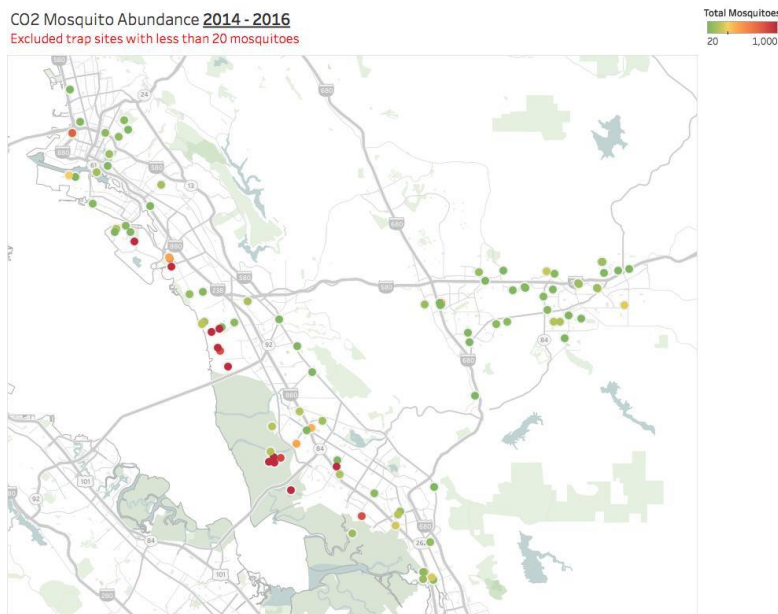


Figure 2. Combined mosquito abundance for 2014 – 2016 as measured using CO₂ traps. Mosquito abundance was combined for each trap site for 2014 – 2016. Traps with less than 20 mosquitoes for the three years were excluded from the map. Red circles indicate trap sites with high mosquito abundance (> 1,000 mosquitoes for the three years), orange circles with moderate numbers of mosquitoes per trap site (n = 200 – 400 mosquitoes), and green circles indicate trap sites with low mosquito abundance (n = 21 – 50 mosquitoes).

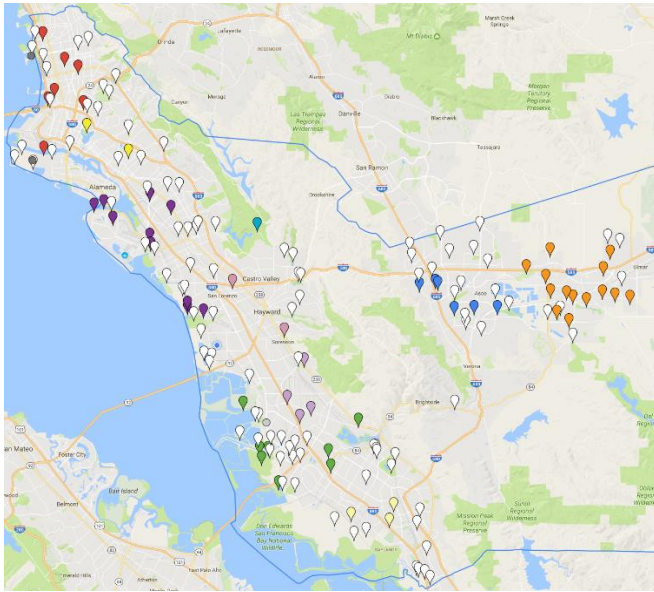


Figure 3. Location of the CO₂ trap sites in Alameda County for 2017. White inverted teardrops indicate new trap sites that were identified using surveillance data from 2014 – 2016 and information from Operations Staff on the most important mosquito breeding sources in the County. Pigmented inverted teardrops indicate trap sites from 2016 that will continue to be surveyed during 2017 because they provided valuable mosquito abundance data. Trap sites from 2016 that did not produce useful mosquito abundance data were removed from the trapping plan for 2017.

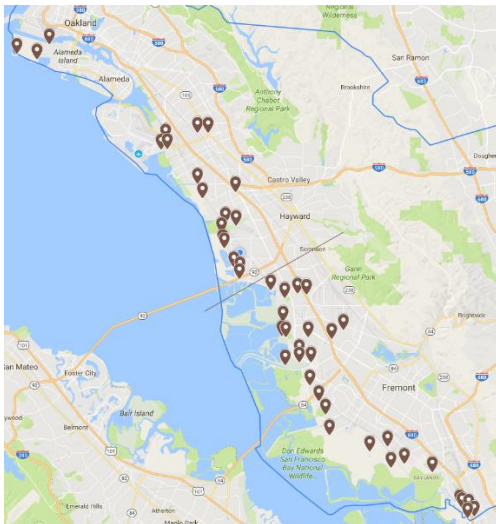


Figure 4. Trap sites for assessing abundance and dispersion of *Aedes squamiger* (indicated by brown pins).

Submitted respectfully by Eric Haas-Stapleton, PhD on March 1, 2017.

3. PUBLIC EDUCATION

A. Upcoming Events

- **St. Patrick's Day Celebration** – Saturday, March 18th – Sunday, March 19th, 10am-5pm (100 Civic Plaza, Dublin)
- **Oakland Earth Expo** – Thursday, April 6th, 10am-2pm (Frank H. Ogawa Plaza - 14th & Broadway, downtown Oakland)
- **Berkeley Bay Festival** – Saturday, April 8th, 11am-4pm (Shorebird Park, 160 University Ave. Berkeley)

- **California Mosquito Awareness Week** – April 16th – April 22nd
- **Peralta Colleges EcoFest Sustainability Festival** – Thursday, April 20th, 11am-2pm (Laney College, Oakland)
- **Alameda Earth Day Festival** – Saturday, April 22nd, 10am-3pm (Washington Park, 740 Central Ave, Alameda)

B. Google Analytics

	February 2017	January 2017	February 2016
Number of Sessions	1,095	1,060	1,360
Users	927	865	1,138
Pageviews	2,080	2,315	3,147
Average Session Duration	1 minute 48 seconds	1 minute 57 seconds	2 minutes 29 seconds
New Visitors	886 (80.9%)	820 (77.4%)	1,109 (81.5%)
Top Cities	Hayward (7.8%), San Francisco (3.7%), Not Set (3.6%), Oakland (3.5%), Berkeley (2.9%)	Hayward (11.7%), Not Set (5.6%), San Francisco (4.25%), Olmsted Falls (2.5%), Oakland (1.9%)	Oakland (8.5%), San Francisco (6.3%), Hayward (4%), Not Set (3.8%), Berkeley (3.6%)
Top Pages	Homepage (20.9%), California Species (16.9%), Education (11.8%), Mosquito Lifecycle (5.7%), About-Staff (3.7%)	Homepage (22.2%), Education (12.4%), California Species (9.4%), Mosquito Lifecycle (5.5%), About-Staff (3.4%)	Homepage (22.2%), California Species (11.3%), Mosquito Lifecycle (4.9%), Education (4.2%), Request Mosquitofish (4%)

C. Facebook

	February 2017	January 2017
Total Posts	7	8
Number Reached	326	430
Most Popular	WNV+ dead bird in San Diego area	Dump and Drain standing water message
Total Number of "Likes"	119	118

D. Twitter

	February 2017	January 2017
Total Tweets	8	9
Tweet Impressions	2,173	1,564
Top Tweet (# Impressions)	WNV+ dead bird in San Diego area (358)	Mosquito proofing rain barrels message (171)
Profile Visits	92	72
New Followers (Total Followers)	7 (455)	5 (448)