

**AGENDA**  
1080<sup>th</sup> MEETING OF THE BOARD OF TRUSTEES  
OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT  
JUNE 10TH, 2020

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TIME: 5:00 P.M.  
PLACE: Teleconference Only, **see below**  
TRUSTEES: Wendi Poulson President, City of Alameda  
P. Robert Beatty, Vice-President, City of Berkeley  
Betsy Cooley, Secretary, City of Emeryville  
Cathy Roache, County-at-Large  
Shawn Kumagai, City of Dublin  
George Young, City of Fremont  
Elisa Márquez, City of Hayward  
James N. Doggett, City of Livermore  
Eric Hentschke, City of Newark  
Jan O. Washburn, City of Oakland  
Andrew Mingst, City of Piedmont  
Julie Testa, City of Pleasanton  
Victor Aguilar, City of San Leandro  
Subru Bhat, City of Union City

1. Call to order.
2. Roll call.
3. President Poulson invites any member of the public to speak at this time on any issue relevant to the District. (Each individual is limited to three minutes).
4. Introduction of new Board Member Mr. Andrew Mingst, representing the City of Piedmont (Information only).
5. Approval of the minutes of the 1079<sup>th</sup> meeting held May 13<sup>th</sup>, 2020 (**Board action required**)
6. Public Hearing on the proposed tax rate. (Information only).
7. Resolution 1080-1, a resolution ordering the levy of assessments for fiscal year 2020-21 for the Alameda County Mosquito Abatement District Mosquito and Disease Control Assessment. (**Board action required**)
8. LAFCo (Local Agency Formation Commission) Special District Alternate Seat Election Wednesday, July 8<sup>th</sup>, 2020. (**Board action required**)
  - a. Nomination for incumbent Ralph Johnson of Castro Valley Sanitary District if no other nominations are provided
  - b. ACMAD Presiding Officer designation
    - i. Presiding Officer: ACMAD Board President Wendi Poulson
    - ii. Presiding Officer Alternate: ACMAD Board Vice-President Robert Beatty
9. Closed session to discuss the General Manager's twelve-month evaluation pursuant to Government Code Section 54957.6. (Information only)

10. Compensation recommendation of General Manager Ryan Clausnitzer based on a recommendation from the Manager Evaluation Committee and according to the employee contract. **(Board action required)**
11. Presentation by UC Berkeley MPP/MPH Candidate Emily Estus: Equitable and Effective Practices for Mosquito Abatement in Alameda County: Challenges and Solutions (Information only)
12. Report on planned policy update to section 300 on working conditions for ACMAD Policy Committee (Information only)
13. District office planned reopening to all staff on June 1<sup>st</sup> delayed to June 2<sup>nd</sup>, due to civil unrest (Information only)
14. Financial Reports as of May 31<sup>st</sup>, 2020: (Information only).
  - a. Check Register
  - b. Income Statement
  - c. Investments, reserves, and cash report
  - d. Balance Sheet (and attached guide)
15. Presentation of the Monthly Staff Report (Information only).
16. Presentation of the Manager's Report (Information only).
  - a. Staff Anniversary
  - b. Clausnitzer, Ryan and Eric Haas-Stapleton, PhD. "Joining Forces with Nonprofits: Leveraging a District's Integrity to Improve Public Health and Comfort". *California Special Districts*, volume 15, issue 2, March-April 2020, pp 12-14.
  - c. Expired certificates: AB1825- Kumagai
  - d. General Manager appointed to the CA Secretary of State and California Association of Clerks and Election Officials taskforce with the goal of supporting County efforts to identify voting locations and poll workers
  - e. LAFCo annexation application update
17. Board President asks for reports on conferences and seminars attended by Trustees.
18. Board President asks for announcements from members of the Board.
19. Board President asks trustees for items to be added to the agenda for the next Board meeting.
20. Adjournment.

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

**Please Note: Board Meetings are accessible to people with disabilities and others who need assistance. Individuals who need special assistance or a disability-related modification or accommodation (including auxiliary aids or services) to observe and/or participate in this meeting and access meeting-related materials should contact Ryan Clausnitzer at least 48 hours before the meeting at 510-783-7744 or [acmad@mosquitoes.org](mailto:acmad@mosquitoes.org).**

**IMPORANT NOTICE REGARDING COVID-19 AND TELECONFERENCED MEETINGS:**

Based on the mandates by the Governor in Executive Order 33-20 and the County Public Health Officer to shelter in place and the guidance from the CDC, to minimize the spread of the coronavirus, please note the following changes to the District's ordinary meeting procedures:

- The District offices are not open to the public at this time.
- The meeting will be conducted via teleconference using Zoom. (See Executive Order 29-20)
- All members of the public seeking to observe and/or to address the local legislative body may participate in the meeting telephonically or otherwise electronically in the manner described below.

**HOW TO OBSERVE THE MEETING:**

**Telephone:** Listen to the meeting live by calling Zoom at **(669) 900-6833**  
Enter the **Meeting ID# 819 2598 8210** followed by the pound (#) key.

**Computer:** Watch the live streaming of the meeting from a computer by navigating to <https://us02web.zoom.us/j/81925988210>

**Mobile:** Log in through the Zoom mobile app on a smartphone and enter **Meeting ID# 819 2598 8210**

**HOW TO SUBMIT PUBLIC COMMENTS:**

**Before the Meeting:** Please email your comments to [acmad@mosquitoes.org](mailto:acmad@mosquitoes.org), write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. If you would like your comment to be read aloud at the meeting (not to exceed three minutes at staff's cadence), prominently write "Read Aloud at Meeting" at the top of the email. All comments received before 12:00 PM the day of the meeting will be included as an agenda supplement on the District's website under the relevant meeting date and provided to the Trustees at the meeting. Comments received after this time will be treated as contemporaneous comments.

**Contemporaneous Comments:** During the meeting, the Board President or designee will announce the opportunity to make public comments and identify the cut off time for submission. Please email your comments to [acmad@mosquitoes.org](mailto:acmad@mosquitoes.org), write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. Once the public comment period is closed, all comments timely received will be read aloud at the meeting (not to exceed three minutes at staff's cadence). Comments received after the close of the public comment period will be added to the record after the meeting.

## MINUTES

### 1079<sup>th</sup> MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

May 13<sup>th</sup>, 2020

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TIME: 5:00 P.M.  
PLACE: *Zoom Teleconference Only*  
TRUSTEES: Wendi Poulson, President, City of Alameda  
P. Robert Beatty, Vice-President, City of Berkeley  
Betsy Cooley, Secretary, City of Emeryville  
Cathy Roache, County-at-Large  
Shawn Kumagai, City of Dublin  
George Young, City of Fremont  
Elisa Marquez, City of Hayward  
James N. Doggett, City of Livermore  
Eric Hentschke, City of Newark  
Jan O. Washburn, City of Oakland  
City of Piedmont, vacant  
Julie Testa, City of Pleasanton  
Victor Aguilar, City of San Leandro  
Subru Bhat, City of Union City

1. Board President Poulson called the regularly scheduled board meeting to order at 5:00 P.M.
2. Trustees Poulson, Beatty, Cooley, Roache, Kumagai, Young, Marquez, Doggett, Hentschke, Washburn, Testa, Aguilar and Bhat were present on the Zoom conference.
3. Board President Poulson invited members of the public to speak on any issue relevant to the District. Information Technology Director Robert Ferdan was on the teleconference call for technical support. Vector Biologist Jeremy Sette was present to record the minutes. No public comments were submitted prior or during the meeting.
4. Approval of minutes of the 1078<sup>th</sup> meeting held April 8<sup>th</sup>, 2020.  
**Motion:** Trustee Aguilar moved to approve the minutes  
**Second:** Trustee Washburn  
**Vote:** motion carries: unanimous.
5. Presentation and approval of the final budget for fiscal year 2020-21  
**Discussion:**  
The General Manager presented the final budget for fiscal year 2020-21 and fielded the following discussion. Trustee Hentschke asked if the decreased 8% of total revenue could be adjusted (yes, an 8% reduction is an estimate during an unprecedented financial situation). Vice-President Beatty asked for clarification if this was the final budget and if there would be a vote to approve (yes). The General Manager mentioned that this final budget has the salary of the new Public Outreach Coordinator included.  
**Motion:** Trustee Washburn moved to approve the budget for fiscal year 2020-21  
**Second:** Trustee Aguilar  
**Vote:** motion carries: unanimous.

6. Presentation of the preliminary Engineer's Report for fiscal year 2020-21 by Melanie Guillory-Lee from SCI Consulting Group.

**Discussion:**

Melanie Guillory-Lee from SCI Consulting Group presented the Engineer's Report for fiscal year 2020-21 and fielded the following discussion. Vice-President Beatty asked for clarification on what the Teeter Plan was (the County guarantees the District's assessment revenue but collects the fees and interest of delinquent accounts). Trustee Marquez asked how the public can access the Report and if there was a way to highlight it on the District website (the General Manager answered: it is in the Board Packet, currently, and he will look into the options of displaying it on website). Trustee Washburn commented that it is important to display the Report for the public as well as express the significance that the Benefit Assessment has not increased since it was established in 2008, and agreed that he liked the idea of highlighting the Report on the website to display transparency. The General Manager agreed with Trustee Washburn and added that Albany will not be included in the assessments until next year. Trustee Bhat asked when the District will start providing service to Albany (the General Manager answered: the District has been providing full services immediately after the result of the protest hearing in January). Vice-President Beatty asked if the Report was done every year and how much it changed, (it is required every year and changes according to the budget and program changes but it must keep the language of the original assessment).

7. Resolution 1079-1 intending to continue assessments for fiscal year 2020-21, preliminarily approving the Engineer's Report, and providing for notice of hearing.

**Discussion:**

Melanie Guillory-Lee noted that once approved, a public notice will be placed in local paper and fielded the following discussion. Trustee Poulson asked which paper post the notice (*East Bay Times*). Vice-President Beatty asked if the Report would be published online as well as in print form (yes). Trustee Bhat noted that local papers such as the *Tri-Valley Voice* post such notices.

**Motion:** Trustee Washburn moved to approve the Engineer's Report and continue assessments for fiscal year 2020-21

**Second:** Hentschke

**Vote:** motion carries: unanimous.

8. LAFCo (Local Agency Formation Commission) Special District Alternate Seat Election Wednesday, July 8<sup>th</sup>, 2020.

**Discussion:**

The General Manager noted that this item was corrected by LAFCo after posting in the packet and he recommends moving the item to the next board meeting.

**Motion:** Trustee Hentschke asked to move Item 8 to the next board meeting

**Second:** Vice-President Beatty

**Vote:** motion carries: unanimous.

9. Staff report update on the District's response to COVID-19

**Discussion:**

The General Manager gave an update on the District's response to COVID-19 and fielded the following discussion. Trustee Roache mentioned that her department received some disposable masks that she will provide to the District (the General Manager thanked her).

Trustee Marquez noted that she is pleased to see District staff continuing work in the field and was pleased to have Vector Biologist Jeremy Sette provide mosquito fish to her neighbor, as well as providing service in locating and identifying mosquitoes or other seasonal insects at her property, including placing an EVS trap in her yard. Trustee Poulson noted that she saw Vector Biologist Ben Rusmisl working in the field, as well.

10. Transition of seasonal Office/ IT Assistant position to full-time Public Outreach Coordinator

**Discussion:**

The General Manager reported on the transition of seasonal Office/ IT Assistant position to full-time Public Outreach Coordinator and fielded the following discussion. Trustee Bhat expressed his strong support for the new position and felt it was a good idea to formalize the position. Trustee Washburn agreed. The General Manager noted that the position will include extra duties not previously assigned in the seasonal position. Vice-President Beatty asked if the starting salary was prudent for someone out of college (the ideal candidate would have experience running education or outreach campaigns which is not necessarily accomplished right out of college).

11. Staff report on the 1<sup>st</sup> full month of solar energy production

**Discussion:**

The General Manager reported on the results of the 1<sup>st</sup> full month of solar energy production and gave credit for Mechanical Specialist Mark Weiland in his assistance in putting the report together.

12. Presentation of the Financial Reports as of April 30<sup>th</sup>, 2020.

**Discussion:**

The General Manager presented the Financial Reports as of April 30<sup>th</sup>, 2020 and fielded the following discussion. Vice-President Beatty would like more clarification on comparing the two balance sheets. The General Manager commented that he will ask Accounting Associate Michelle Robles to make a key/guide for future Balance Sheets.

13. Presentation of the Monthly Staff Report.

**Discussion:**

The General Manager presented the Monthly Staff Report and fielded the following discussion. Trustees Hentschke and Poulson expressed their interest in attending the District treatment UAS calibration field session (the General Manager will coordinate for them to attend the trials). President Poulson suggested the possibility of using the Alameda model airplane airfield as a possible drone practice field (the District has approval to fly the airspace over the entire County but that location might be problematic so near the Oakland airport) and also asked for clarification on which field staff switched zones (Vector Biologists Neil Campbell and Sarah Erspamer switched from southern Alameda County to northern Alameda County, respectively. Vector Biologist Ben Rusmiser provides service for Bay Farm Island, not Alameda island)

14. Presentation of the Manager's Report.

**Discussion:**

The General Manager presented the Manager's Report and fielded the following discussion. The General Manager acknowledged and thanked Vector Biologist Jeremy Sette for his five-year anniversary of District service. Vice-President Beatty asked if the General Manager could send the link to complete training (yes). Trustee Marquez gave an update on how the City of Hayward would be releasing the Hayward Shoreline Master Plan and asked for any District feedback on this issue (District staff, including Field Supervisor Joseph Huston and Regulatory and Public Affairs Director Erika Castillo have been commenting on this plan and will reach out).

15. Board President Poulson asked for reports on conferences and seminars attended by Trustees. None.

16. Board President Poulson asked for announcements from the Board. None.

17. Board President Poulson asked trustees for items to be added to the agenda for the next Board meeting. Item 8 on LAFCo (Local Agency Formation Commission) Special District Alternate Seat Election Wednesday, July 8<sup>th</sup>, 2020 will be moved to the next board meeting.

18. The meeting adjourned at 6:15 P.M.

**Respectfully submitted,**

Approved as written and/or corrected  
at the 1080<sup>th</sup> meeting of the Board of  
Trustees held June 10<sup>th</sup>, 2020

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Wendi Poulson, President  
BOARD OF TRUSTEES

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Betsy Cooley, Secretary  
BOARD OF TRUSTEES

## RESOLUTION NO. 1080-1

### A RESOLUTION APPROVING THE ENGINEERING'S REPORT, AND ORDERING THE LEVY OF CONTINUED ASSESSMENTS FOR FISCAL YEAR 2020-21 FOR THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT MOSQUITO AND DISEASE CONTROL ASSESSMENT

**WHEREAS**, the Alameda County Mosquito Abatement District ("District") is authorized, pursuant to the authority provided in Health and Safety Code Section 2082 and Article XIIID of the California Constitution, to levy assessments for mosquito and disease control projects and services; and

**WHEREAS**, such mosquito surveillance and control projects and services provide tangible public health benefits, reduced nuisance benefits and other special benefits to the public and properties with the areas of service; and

**WHEREAS**, an assessment for mosquito and disease control projects and services has been given the distinctive designation of the "Mosquito and Disease Control Assessment" ("Assessment"), and is primarily described as encompassing the boundaries of Alameda County (excluding the City of Albany); and

**WHEREAS**, the Assessment was authorized by an assessment ballot proceeding conducted in 2008 and approved by 70.19% of the weighted ballots returned by property owners, and such Assessments were levied by the Board of Trustees of the Alameda County Mosquito Abatement District by Resolution No. 937-1 passed on May 14, 2008;

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Trustees of the Alameda County Mosquito Abatement District that:

**SECTION 1.** SCI Consulting Group, the Engineer of Work, prepared an engineer's report in accordance with Article XIIID of the California Constitution and Section 2082, et. seq., of the Health and Safety Code for the Assessment (the "Report"). The Report have been made, filed with the District and duly considered by the Board and is hereby deemed sufficient and approved. The Report shall stand as the Engineer's Report for all subsequent proceedings under and pursuant to the foregoing resolution.

**SECTION 2.** On May 13, 2020, this Board adopted Resolution No. 1079-1 to continue to levy and collect the Assessments for fiscal year 2020-21, preliminarily approving the Engineer's Report, and providing for notice of hearing on June 10, 2020, at the hour of 5 o'clock p.m. The Board meetings will be held remotely in accordance with Governor Gavin Newsom's Executive Order N-25-20, issued March 12, 2020, and Government Code Section 54954(e). In an effort to improve access to public information, residents may access meetings remotely, by telephone, computer, or mobile through Zoom.

**SECTION 3.** At the appointed time and place the hearing was duly and regularly held, and all persons interested and desiring to be heard were given an opportunity to be heard, and all matters and things pertaining to the levy of Assessment were fully heard and considered by this Board, an



all oral statements and all written protests or communications were duly heard, considered and overruled, and this Board there by acquired jurisdiction to order the levy of Assessment prepared by and made a part of the Engineer's Report to pay the costs and expenses thereof.

**NOW, THEREFORE, IT IS FOUND, DETERMINED, RESOLVED AND ORDERED**, that:

**SECTION 4.** The above recitals are true and correct

**SECTION 5.** The public interest, convenience and necessity require that the levy be made.

**SECTION 6.** The assessment is levied without regard to property valuation.

**SECTION 7.** The Engineer's Report for the Assessment together with the proposed Assessment roll for fiscal year 2020-21 is hereby confirmed and approved.

**SECTION 8.** That based on the oral and documentary evidence, including the Engineer's Report offered and received at the public hearing, the Board expressly finds and determines that: (a) each of the several lots and parcels of land subject to the Assessment will be specially benefited by the services to be financed by the Assessment proceeds in at least the amount of the Assessment apportioned against such lots and parcels of land, respectively; and (b) that there is substantial evidence to support , and the weight of the evidence preponderates in favor of, said finding and determination as to special benefit to property from the mosquito and disease control services to be financed with Assessment proceeds.

**SECTION 9.** That Assessments for fiscal year 2020-21 shall be levied at the rate of two dollars and fifty cents (\$2.50) per single family equivalent benefit unit as specified in the Engineer's Report for fiscal year 2020-21 with estimated total annual Assessment revenues as set forth in the Engineer's Report; and

**SECTION 10.** That the mosquito and disease control project and services to be financed with Assessment proceeds described in the Engineer's Report are hereby ordered.

**SECTION 11.** No later than August 10<sup>th</sup> following such adoption, the Board shall file a certified copy of the Assessment and a certified copy of this resolution with the Auditor of the County of Alameda ("County Auditor"). Upon such filing, the County Auditor shall enter on the County assessment roll opposite each lot or parcel of land the amount of Assessment. The Assessments shall be collected at the same time and in the same manner as County taxes are collected and all the laws providing for collection and enforcement shall apply to the collection and enforcement of the Assessments. After collection by the County, the net amount of the Assessments, after deduction of any compensation due the County for collection, shall be paid to the Mosquito and Disease Control Assessment.

**SECTION 12.** All revenues from Assessments shall be deposited in a separate fund established under the distinctive designation of the Alameda County Mosquito Abatement District Mosquito, and Disease Control Assessment.

**SECTION 13.** The Assessment, as it applies to any parcel, may be corrected, cancelled or a refund granted as appropriate, by order of the Board of Trustees of the District. Any such corrections, cancellations or refunds shall be limited to the current fiscal year.

**SECTION 14.** The Board of Directors of the Alameda County Mosquito Abatement District hereby certifies that the assessments to be placed on the fiscal year 2020-21 property tax bills meet the requirements of Proposition 218 that added Articles XIII C and XIII D to the California Constitution.

**PASSED and ADOPTED** by the Alameda County Board of Trustees for the Alameda County Mosquito Abatement Program at a regular meeting thereof held on June 10, 2020, at 23187 Connecticut Street, Hayward, California, by the following vote:

AYES:

NOES:

ABSTAINED:

ABSENT:

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President, Board of Trustees, Alameda County Mosquito  
Abatement District

ATTEST:

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Secretary of the Board of Trustees, Alameda County  
Mosquito Abatement District



*Alameda* Local Agency Formation Commission

May 8, 2020

Board Presidents  
Independent Special District Selection Committee

**SUBJECT: Correction – Notice of Regular Special District Seat on Alameda LAFCO**

Dear Committee Members:

Please excuse and disregard the previous notice mailed that provided the incorrect information for the upcoming Special District Member selection process.

This corrected letter serves as notice that the term of the Regular Special District Member on the Alameda Local Agency Formation Commission (LAFCO) will expire on May 6, 2020. As a result of the COVID-19 pandemic, Alameda LAFCO has postponed the meeting of the Alameda County Independent Special District Selection Committee (ISDSC) for **Wednesday, July 13, 2020 at 10:00 a.m.** after the regular Alameda County Special District Association meeting. Candidate nominations are due **Friday, June 19, 2020**. Please note that the incumbent, Ralph Johnson, has indicated that he plans to seek re-nomination.

Alameda LAFCO is a political subdivision of the State of California and currently operates under authority of the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2001 (Government Code Section 56000). LAFCO is delegated regulatory and planning responsibilities to coordinate the efficient and responsive delivery of local governmental services and highlighted by overseeing the formation, expansion and related changes involving cities and special districts. There are presently 14 cities and 33 special districts subject to LAFCO’s jurisdiction in Alameda County.

Decision-making at Alameda LAFCO is directly vested with its 11-member Commission. The Commission is divided between seven regular voting members and four alternate voting members. Representation on the Commission is also divided between four distinct appointee categories: (a) three appointees from the County of Alameda, (b) three appointees from the cities/towns, (c) three appointees from the independent special districts, and (d) two appointees from the general public. State law specifies all Commission members shall exercise their independent judgment on behalf of the interests of the public as a whole and not on behalf of their appointing authorities.

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 Section 56332 and the ISDSC rules, a special district’s board of directors may appoint one of its members to attend the meeting if the presiding officer is unable to attend. Please find the ISDSC’s rules and the Government Code Section 56332 enclosed (Attachment 1 and Attachment 2).

For this election each independent special district is entitled to nominate one board member. The nominees must meet the eligibility requirements outlined in Section VI of the ISDC’s rules (Attachment 1).

**Administrative Office**

Rachel Jones, Executive Officer  
224 West Winton Avenue, Suite 110  
Oakland, Hayward 94544  
T: 510.670.6267  
www.acgov.org/lafco

**Scott Haggerty, Chair**  
County of Alameda

**Nate Miley, Regular**  
County of Alameda

**Richard Valle, Alternate**  
County of Alameda

**John Marchand, Regular**  
City of Livermore

**Jerry Thorne, Regular**  
City of Pleasanton

**David Haubert, Alternate**  
City of Dublin

**Ralph Johnson, Regular**  
Castro Valley Sanitary District

**Ayn Wieskamp, Regular**  
East Bay Regional Park District

**Geogean Vonheeder-Leopold, Alternate**  
Dublin San Ramon Services District

**Sblend Sblendorio, Regular**  
Public Member

**Tom Pico, Alternate**  
Public Member

A nomination and voting delegate form is enclosed (Attachment 3). Eligible nominees may circulate a statement of qualifications prior to or at the July 13<sup>th</sup> ISDSC meeting.

Any district nominating a candidate must ratify that nomination by board resolution. Furthermore, upon nomination, the nominating district must notify in writing 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:

**Friday, June 19, 2020**

Nominations due from each district. Please complete and return the attached form to Alameda LAFCO. Please note that pursuant to Government Code Section 56332, "if only one candidate is nominated for a vacant seat, that candidate shall be deemed selected, with no further proceedings."

**Friday, June 19, 2020**

Each district submits the name of the presiding officer or designee who will be voting at the July 13<sup>th</sup> meeting. Please complete and return the attached form to Alameda LAFCO.

**Before, Wednesday, July 13, 2020**

All nominating agencies must ratify their district's nominee via board resolution and send 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, July 13, 2020**

Independent Special District Selection Committee meeting location or video-conferencing information is to-be-determined after the ACSDA meeting. If the scheduled upcoming ACSDA meeting is postponed due to the COVID-19 pandemic, LAFCO will provide information for voting by mail.

Should you have any questions, please contact me directly by telephone at 510.670.6267 or by e-mail at [rachel.jones@acgov.org](mailto:rachel.jones@acgov.org).

Sincerely,



Rachel Jones

Attachments:

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

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.)

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**Alameda LAFCO  
Special District Regular Enterprise Seat Election 2020**

Please complete the following information and  
return by **Friday, June 19, 2020 to:**

Rachel Jones, Executive Officer  
Alameda LAFCO  
224 West Winton Avenue, Suite 110  
Hayward, CA 94544  
Telephone: (510) 670-6267  
Email: rachel.jones@acgov.org

Name of presiding officer or designee who will attend and vote at the  
July 13, 2020 ISDSC election meeting at 10 am, following the  
Alameda County Special Districts Association meeting.

NAME: Wendi Poulson

DISTRICT: Alameda County Mosquito Abatement District

-----  
**NOMINATING DISTRICTS ONLY**

You may nominate a maximum of one Board member for the  
LAFCO regular enterprise seat and the nomination must be  
ratified by a Board resolution prior to July 13, 2020.\*

Candidate Name for Regular Enterprise 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).***

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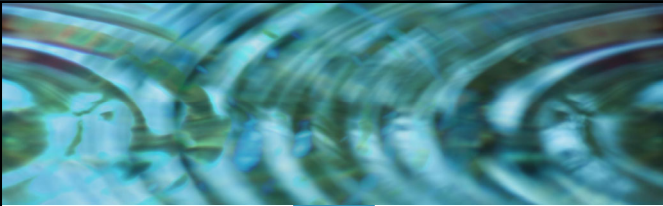


### Special District Contact Information\*

	District	Address	Fax #	Contact/E-Mail
1	<b>Alameda County Mosquito Abatement District</b>	23187 Connecticut St. Hayward, CA 94545	510-783-3903	Ryan Clausnitzer, General Manager <a href="mailto:ryan@mosquitoes.org">ryan@mosquitoes.org</a>
2	<b>Alameda County Resource Conservation District</b>	3585 Greenville Rd., Suite 2 Livermore, CA 94550	925-371-0155	Katherine Boxer, Executive Officer <a href="mailto:Katherine.Boxer.Latipow@ca.nacdn.net">Katherine.Boxer.Latipow@ca.nacdn.net</a>
3	<b>Alameda County Water District</b>	P.O. Box 5110 Fremont, CA 94537	510-770-1793	Robert Shaver, General Manager <a href="mailto:robert.shaver@acwd.com">robert.shaver@acwd.com</a>
4	<b>Castro Valley Sanitary District</b>	21040 Marshall Street Castro Valley, CA 94546	510-537-1312	Roland Williams, General Manager <a href="mailto:Roland@cvsan.org">Roland@cvsan.org</a>
5	<b>City of Alameda Health Care District</b>	2070 Clinton Avenue Alameda, CA 94501	510-814-4381	Kristen Thorson, District Clerk <a href="mailto:kthorson@coahcd.org">kthorson@coahcd.org</a>
6	<b>Dublin San Ramon Services District</b>	7051 Dublin Boulevard Dublin, CA 94568	925-829-1180	Daniel McIntyre, General Manager <a href="mailto:mcintyre@dsrsd.com">mcintyre@dsrsd.com</a>
7	<b>East Bay Municipal Utility District</b>	PO Box 24055, MS 804 Oakland, CA 94623	510-287-0188	Alexander R. Coate, General Manager <a href="mailto:acoate@ebmud.com">acoate@ebmud.com</a>
	<b>East Bay Regional Park District</b>	2950 Peralta Oaks Ct. Oakland, CA 94605	510-569-1417	Robert E. Doyle, General Manager <a href="mailto:Rdoyle@ebparks.org">Rdoyle@ebparks.org</a>
9	<b>Eden Township Healthcare District</b>	20400 Lake Chabot Road, Suite 303 Castro Valley, CA 94546	510- 538-2031	Stephen Cassidy, CEO <a href="mailto:stephen.cassidy@ethd.org">stephen.cassidy@ethd.org</a>
10	<b>Fairview Fire Protection District</b>	777 B Street Hayward, CA 94541	510-583-6414	Michael Preston, General Manager <a href="mailto:mike.preston@fairviewfiredistrict.org">mike.preston@fairviewfiredistrict.org</a>
11	<b>Hayward Area Recreation &amp; Park District</b>	1099 E Street Hayward, CA 94541	510-881-1716	Paul McCreary, General Manager <a href="mailto:mccp@haywardrec.org">mccp@haywardrec.org</a>
12	<b>Livermore Area Recreation &amp; Park District</b>	4444 East Avenue Livermore, CA 94550	925-447-2754	Mathew Fuzie, General Manager <a href="mailto:mfuzie@larpd.org">mfuzie@larpd.org</a>
13	<b>Oro Loma Sanitary District</b>	2600 Grant Avenue San Lorenzo, CA 94580	510-276-1528	Jason Warner, General Manager <a href="mailto:jwarner@oroloma.org">jwarner@oroloma.org</a>
14	<b>Union Sanitary District</b>	5072 Benson Road Union City, CA 94587	510-477-7501	Paul Eldredge, General Manager <a href="mailto:paul_eldredge@unionsanitary.com">paul_eldredge@unionsanitary.com</a>
15	<b>Washington Hospital Health Care District</b>	2000 Mowry Avenue Fremont, CA 94538	510-791-0121	Christine Bartling, District Clerk <a href="mailto:christine_bartling@whhs.org">christine_bartling@whhs.org</a>

\* Districts not listed do not participate in the LAFCO election process.





**Advancing Equity in Alameda County Mosquito Abatement**

Emily Estus for the Alameda County Mosquito Abatement District


1

**AGENDA**


- The Client and Project
- Three Vulnerable Populations
- Geographic Service Gaps
- Areas of Overlap
- Near-Term Threat: Invasive Species
- Long-Term Threat: Climate Change
- Recommendations

2


**The Client: Alameda County Mosquito Abatement District**



Uses **outreach/public education, surveillance, and control** tools to protect against mosquito-borne illness & ensure comfort outdoors



One of 70 such orgs in California and one of 100's nationwide



Independent special district funded by **property taxes, a special tax, and a benefit assessment**

3

**The Project**

**Identify**

Identify areas/populations that might not be receiving enough service

**Investigate**




Investigate the implications of near- and long-term challenges

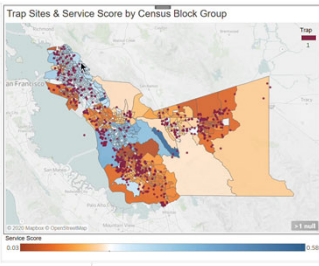
**Recommend**

Recommend strategies for ACMAD to address current service gaps and future challenges

4

**Methods**

-  **Interviews**  
ACMAD staff  
Reps from other MADs  
Mosquito experts/academics  
Homelessness advocacy leader
-  **Data**  
ACMAD trap data  
ACMAD events data  
ACMAD service requests data  
US Census data  
Cal-Adapt data
-  **Supporting Docs**  
Climate model  
Interactive maps  
Interview transcripts  
STATA code



Trap Sites & Service Score by Census Block Group

5

While every part of the county receives some ACMAD services, **some areas receive less service** than others. In some cases, these **gaps overlap with three especially vulnerable groups...**

6

### 1. Low-SES Neighborhoods

- Higher mosquito abundance (yard containers, access to mosquito lifecycle knowledge, proximity to vacant properties)
- Increased biting (screens, outdoor time, AC use, service calls)
- More cases of disease (worse sanitation services, undetected cases)
- Opposing effects: shade, vegetation, irrigated lawns.
- Dry vs. wet years lead to different relationships.

Census Block Groups by Median Household Income

Median Household Income: \$9,861 to \$250,000

7

### 2. Recent Immigrants

- Low SES
- Political climate → Less likely to call government services
- Higher risk of imported disease
- Water-collection
- May be accustomed to invasive mosquitoes

Recent Immigrants in Alameda County

Percent of Residents Born Outside of the United States: 0.0% to 100.0%

8

### 3. Unhoused Individuals

- Low SES
- Accumulated risk of other environmental threats
- Higher outdoor exposure
- Criminalization of homelessness → live closer to waterways
- Water collection
- Dumping and outdoor objects

Unhoused Individuals by Census Tract

Unhoused Individuals: 0 to 154

Source: Petty et al., "Alameda County Homeless Count & Survey."

9

### Service Holes

- Service measures
  - Service requests per capita
  - Trap density
  - Events in census block home city
- High service: Berkeley, Piedmont, downtown Oakland, Hayward
- Low service: Alameda, San Leandro, Union City, Fremont, West Oakland/Emeryville, Livermore, Dublin
- EVERY census block group receives some service

Trap Sites & Service Score by Census Block Group

Service Score: 0.03 to 0.58

$$Service\ Score = \left(\frac{1}{3}\right) * Std.\ Events + \left(\frac{1}{3}\right) * Std.\ Trap\ Density + \left(\frac{1}{3}\right) * Std.\ SRs$$

10

Do more mosquitoes drive more service?

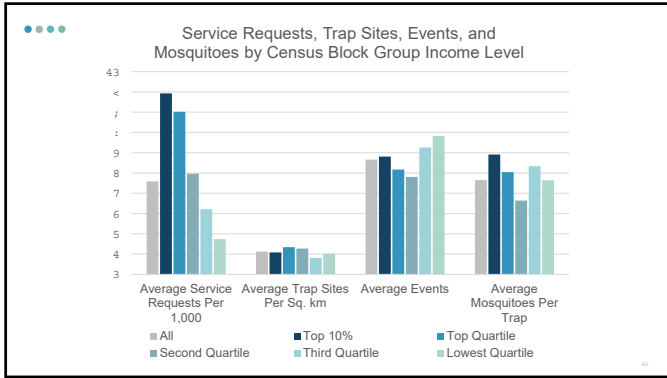
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### Service Score Relative to Found Mosquitoes

Service Score Relative to Found Mosquitoes

Service Score Relative To Mosquito Abundance Per Trapping Event: 0.00 to 0.50

12

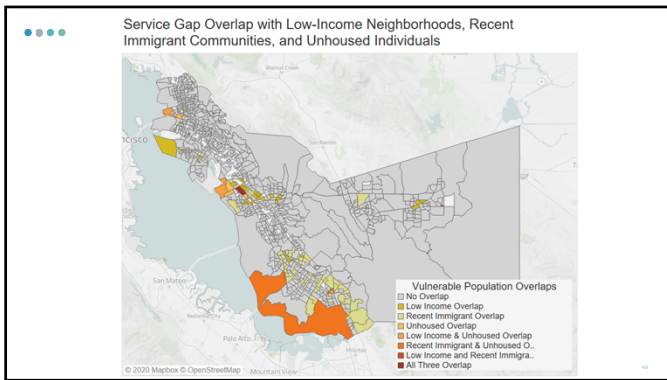


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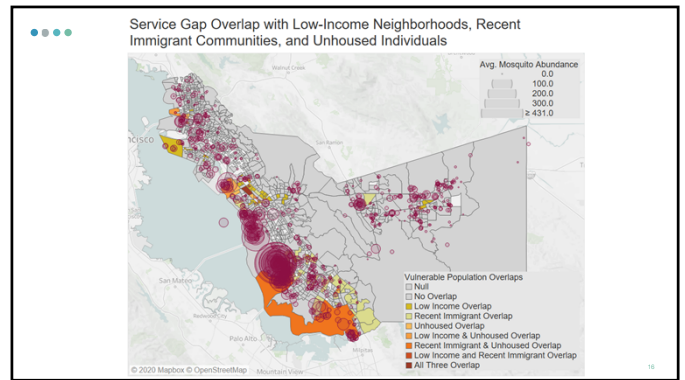
### Areas of Overlap

	Service Score	Score Relative to Abundance	Service Requests Per Capita	Trap Density	Events
Low Income Neighborhoods	<b>0.13</b>	0.02	<b>-0.33</b>	0.00	<b>0.19</b>
Immigrant Communities	<b>-0.21</b>	-0.04	<b>-0.29</b>	<b>0.12</b>	<b>-0.21</b>
Unhoused Population	<b>0.11</b>	-0.08	-0.01	0.03	<b>0.11</b>

14



15



16

Every census block is getting service, but...

- ...some are getting more than others
- ...that doesn't mean all *people* are getting service
- ...some service gaps align with vulnerable populations
- ...some services are tightly connected to income

**Addressing these issues now is key for weathering invasive species and climate change**

17

### Near-Term Challenge: Invasive Species

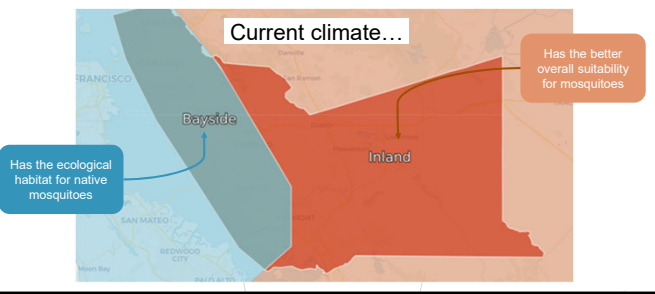
**More bothersome**  
Bite more frequently, with more pressure, and during the day

**Harder to find**  
Live in tiny man-made containers  
Short flying range

**Worse outbreaks**  
New diseases  
Fewer mosquitoes required for outbreak

18

### Long-Term Challenge: Climate Change



19

### Mosquitos + Climate = Complicated

**More Rain**

- More standing water N I
- Humidity → longer lifespan N I
- Flushed drainage channels N I

**Less Rain**

- Fewer mosquito breeding habitats N I
- Clustered birds and mosquitoes (disease +)
- More nutrients in standing water N I

20

### Recommendations

**Community Liaison**  
Hire a full-time outreach staffer to make community connections

**Homelessness Outreach**  
Partner with a homelessness outreach organization

**More Events**  
Hold more events in service gap or vulnerable population areas

**Shift Trap Locations**  
Shift traps for better coverage in vulnerable population areas

**Identify At-Risk Areas**  
Use AI to look for 'risky' areas for invasive Aedes arrival

**Continue Research**  
Take on another student to specifically focus on climate change predictions

21

### References (1)

Adams, J. M., McLean, R., & Galloway, M. (2019). *Climate Change and Mosquitoes: A Review of the Literature*. *Environmental Health Perspectives*, *127*(6), 826-835. doi:10.1289/ehp.2019.127826

Al-Sulfi, Chah Gulam, Serina Naeem, Alexandra Harrison, Lauren Wells, Andrew May, Steve Harris, et al. *Transmission and Social Change in the Epidemic Emergence of Zika Virus in the Americas*. *PLoS Neglected Tropical Diseases* 11 (6): 2 (2017). doi:10.1371/journal.pntd.0005220

Anderson, James R., and Richard M. Cook. *Estimating the Impact of Mosquitoes on Human Health: A Review*. *Journal of Vector Ecology* 30 (1): 1-10 (2005). doi:10.1007/s10841-005-9000-8

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### References (2)

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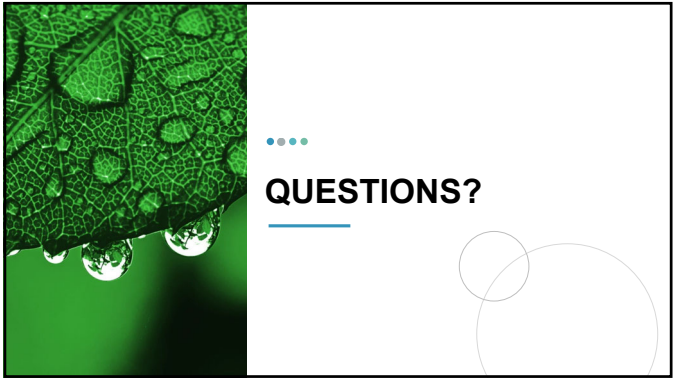
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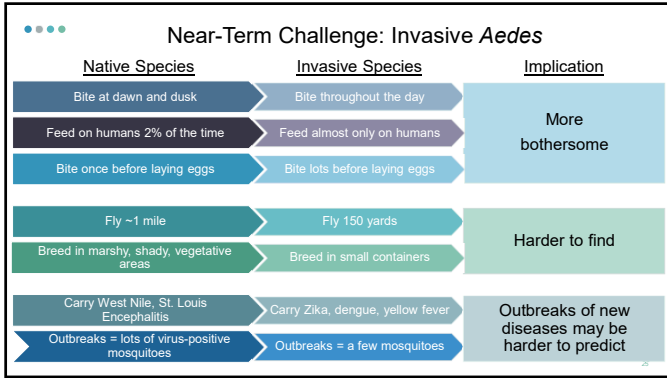
Adams, J. M., McLean, R., & Galloway, M. (2019). *Climate Change and Mosquitoes: A Review of the Literature*. *Environmental Health Perspectives*, *127*(6), 826-835. doi:10.1289/ehp.2019.127826

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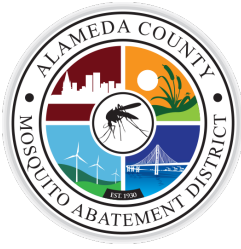
### QUESTIONS?



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25



23187 Connecticut Street  
Hayward, CA 94545

T: (510) 783-7744  
F: (510) 783-3903

[acmad@mosquitoes.org](mailto:acmad@mosquitoes.org)

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*General Manager*

## ACMAD Policy Update 2020

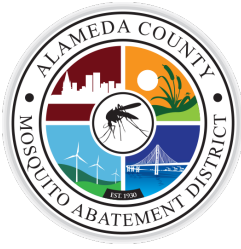
The District has an eight-chapter policy manual that is updated when laws change and to ensure practices match policies. The entire policy manual was last revised in 2018; chapter 200 was revised in 2019. The chapters are as follows:

Chapter 100:	Board of Trustees
Chapter 200:	Financial
Chapter 300:	Salaries and Working Conditions of Employees
Chapter 400:	Operations
Chapter 500:	Hiring and Equal Employment Opportunity
Chapter 600:	Harassment and Discrimination
Chapter 700:	Grievance and Disciplinary Procedures
Chapter 800:	Management, Release, and Destruction of Official Records

The proposed policy update is limited to chapter 300 and will address remote/telework and clean-up language.

The policy revision process is as follows:

1. The General Manager determines which policies may be out of compliance, drafts revisions, and has those revisions reviewed by an HR consultant.
2. This draft is shared with supervisory staff for comments.
3. That update is then shared with the ACMAD Policy Committee for review.
4. Any changes are reviewed by the Employee Association.
5. If changes are requested by the employee association, step 3 is repeated. If no changes are suggested, that agreed upon draft is placed in the Board packet for the 1<sup>st</sup> Board reading.
6. If changes are requested at the Board meeting, steps 3-4 are repeated, if no changes are made, the policies are placed in the following Board packet for a 2<sup>nd</sup> reading and adoption by the Board of Trustees.
7. The updated policies are then provided to staff and posted to the website.



23187 Connecticut Street  
Hayward, CA 94545

T: (510) 783-7744  
F: (510) 783-3903

[acmad@mosquitoes.org](mailto:acmad@mosquitoes.org)

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### **Pleasanton**

Victor Aguilar

### **San Leandro**

Subru Bhat

### **Union City**

### **Ryan Clausnitzer**

*General Manager*

## District offices reopen to all staff on June 2<sup>nd</sup>, 2020

All staff were asked to report to work on June 1<sup>st</sup>, 2020, following guidelines from the Alameda County Public Health Agency and the CDC. These guidelines include staggered shifts, use of masks, limiting exposures, and sanitization of shared surfaces. This plan was delayed one day as the General Manager contacted all staff via text, phone, and email on the evening of Sunday May 31<sup>st</sup>, 2020 informing them **not** to come into the office on Monday, June 1<sup>st</sup>, 2020 due to civil unrest. Emergency alerts from the Alameda County Office of Emergency Services led to this decision. All staff confirmed receiving the following message sent on Sunday evening at 9:10 P.M.:

Hello all-

The District will be closed on Monday due to the civil unrest. Please stay home until further notice.

Stay safe-

Ryan

A follow-up email was sent at 8:05 A.M. the following morning:

Hello-

As the sheriff's order has lapsed this morning, you may return to the District today but are not obligated to do so. Everyone will be compensated for their time without using their accrued leaves.

Let's plan on normal operations for Tuesday.

Thanks-  
Ryan

Staff received 8 hours of paid leave for Monday with normal work resuming on Tuesday.

Alameda County Mosquito Abatement Dist.  
**Check Register**  
 For the Period From May 1, 2020 to May 15, 2020

Filter Criteria includes: Report order is by Date.

<b>Check #</b>	<b>Date</b>	<b>Payee</b>	<b>Amount</b>
2181	5/12/20	AB Auto Body & Repair	5,058.67
2182	5/12/20	Airgas	467.62
2183	5/12/20	AT&T	65.81
2184	5/12/20	Bay Alarm	509.25
2185	5/12/20	CarQuest	16.87
2186	5/12/20	Cintas	330.42
2187	5/12/20	East Bay EDA	1,500.00
2188	5/12/20	Estus, Emily	4,375.00
2189	5/12/20	Grainger	84.51
2190	5/12/20	Hayward Water System	653.95
2191	5/12/20	Industrial Park Landscape Maintenance	226.00
2192	5/12/20	Mar-Len Supply, Inc.	125.00
2193	5/12/20	PC Professional	3,078.27
2194	5/12/20	PG&E	241.26
2195	5/12/20	The Hartford	81.48
2196	5/12/20	Univar	9,870.48
2197	5/12/20	Voya Institutional Trust Company	177.41
2198	5/12/20	Waste Management of Alameda County	280.83
2199	5/12/20	U.S Bank Corporate Payment System	6,787.28
ACH	5/12/20	Payroll	70,301.69
ACH	5/12/20	CalPERS Retirement	12,864.20
ACH	5/12/20	CalPERS 457	2,668.64
<b>Total Expenditures - May 15, 2020</b>			<b>119,764.64</b>



Alameda County Mosquito Abatement Dist.  
**Check Register**  
 For the Period From May 16, 2020 to May 31, 2020

Filter Criteria includes: Report order is by Date.

<b>Check #</b>	<b>Date</b>	<b>Payee</b>	<b>Amount</b>
2200	5/26/20	Airgas	261.73
2201	5/26/20	Bay Alarm	509.25
2202	5/26/20	Best Best & Krieger	3,000.00
2203	5/26/20	Cintas	602.56
2204	5/26/20	Delta Dental	4,639.89
2205	5/26/20	Doggett, James N	100.00
2206	5/26/20	Grainger	83.06
2207	5/26/20	Hentschke, Eric Armin	100.00
2208	5/26/20	NBC Supply Corp	1,123.84
2209	5/26/20	PG&E	23.81
2210	5/26/20	Testa, Julie	100.00
2211	5/26/20	Verizon	1,059.02
2212	5/26/20	Voya Institutional Trust Company	177.41
2213	5/26/20	VSP	695.41
2214	5/26/20	Waste Management of Alameda County	280.83
2215	5/26/20	WEX Bank	3,724.41
2216	5/26/20	Young, George	100.00
ACH	5/26/20	Aguilar, Victor	100.00
ACH	5/26/20	Alameda County Mosquito Abatement Dist	71,899.78
ACH	5/26/20	Beatty, Robert .P	100.00
ACH	5/26/20	Bhat, Subrahmanya Y	100.00
ACH	5/26/20	CalPERS Health	33,582.29
ACH	5/26/20	CalPERS Retirement	12,853.47
ACH	5/26/20	CalPERS 457	2,668.64
ACH	5/26/20	Cooley, Elizabeth	100.00
ACH	5/26/20	Kumagai, Shawn	100.00
ACH	5/26/20	Marquez, Elisa	100.00
ACH	5/26/20	Poulson, Wendi Lynn	100.00
ACH	5/26/20	Roache, Cathy J Pinkerton.	100.00
ACH	5/26/20	Washburn, Jan	100.00
<b>Total Expenditures - May 31, 2020</b>			<b>138,485.40</b>

**Alameda County Mosquito Abatement District**  
**Income Statement**  
**May 31, 2020. (11 of 12 mth, 92%)**

<b>REVENUES</b>	<b>Actual 2017/18</b>	<b>Actual 2018/19 <sup>1</sup></b>	<b>Current Month</b>	<b>Year to Date 2019/20</b>	<b>Budget 2019/20</b>	<b>Actual vs Budget</b>
<b>Total Revenue</b>	<b>\$ 4,623,350.00</b>	<b>\$ 4,922,549.00</b>	<b>\$ 172,055.90</b>	<b>\$ 4,985,664.84</b>	<b>\$ 4,705,236.00</b>	<b>106%</b>

<b>EXPENDITURES</b>	<b>Actual 2017/18</b>	<b>Actual 2018/19 <sup>1</sup></b>	<b>Current Month <sup>2</sup></b>	<b>Year to Date 2019/20</b>	<b>Budget 2019/20</b>	<b>Actual vs Budget</b>
Salaries	\$ 1,744,412	\$ 1,894,209.00	\$ 161,372.43	\$ 1,814,727.69	\$ 2,425,552	75%
CalPERS Retirement	\$ 262,107	\$ 310,838.00	\$ 14,528.47	\$ 349,581.18	\$ 360,538	97%
Medicare	\$ 23,564	\$ 25,149.00	\$ 2,085.34	\$ 24,020.92	\$ 30,843	78%
Fringe Benefits	\$ 449,954	\$ 452,960.00	\$ 38,999.07	\$ 431,460.33	\$ 502,043	86%
<b>Total Salaries, Retirement, &amp; Benefits</b>	<b>\$ 2,480,037</b>	<b>\$ 2,683,156.00</b>	<b>\$ 216,985</b>	<b>\$ 2,619,790</b>	<b>\$ 3,318,976</b>	<b>79%</b>
Clothing and personal supplies (purchased)	\$ 7,308.71	\$ 8,899.00	\$ 131.70	\$ 5,299.32	\$ 8,000	66%
Laundry service and supplies (rented)	\$ 9,819.37	\$ 12,603.00	\$ 660.84	\$ 9,901.11	\$ 12,750	78%
Utilities	\$ 29,830.25	\$ 30,161.00	\$ 1,480.68	\$ 25,013.09	\$ 12,600	199%
Communications-IT	\$ 102,855.59	\$ 108,868.00	\$ 7,545.03	\$ 60,369.76	\$ 117,100	52%
Maintenance: structures & improvements	\$ 21,374.70	\$ 13,673.00	\$ 759.98	\$ 15,077.47	\$ 25,000	60%
Maintenance of equipment	\$ 43,585.45	\$ 43,629.00	\$ 1,209.83	\$ 19,260.25	\$ 35,000	55%
Transportation, travel, training, & board	\$ 131,330.43	\$ 98,433.00	\$ 4,571.13	\$ 92,747.06	\$ 134,260	69%
Professional services	\$ 100,563.13	\$ 115,324.00	\$ 3,000.00	\$ 94,515.09	\$ 169,320	56%
Memberships, dues, & subscriptions	\$ 15,933.00	\$ 20,774.00	\$ 1,500.00	\$ 23,859.00	\$ 22,655	105%
Insurance - (VCJPA, UAS)	\$ 131,392.69	\$ 124,688.00	\$ -	\$ 133,795.68	\$ 133,546	100%
Community education	\$ 64,109.47	\$ 34,861.00	\$ 20.00	\$ 14,736.97	\$ 40,000	37%
Operations	\$ 176,000.00	\$ 206,731.00	\$ 11,695.01	\$ 120,700.57	\$ 228,500	53%
Household expenses	\$ 18,101.06	\$ 18,655.00	\$ 1,018.50	\$ 12,673.65	\$ 15,850	80%
Office expenses	\$ 10,753.26	\$ 11,795.67	\$ -	\$ 10,986.46	\$ 14,500	76%
Laboratory supplies	\$ 113,768.06	\$ 95,640.00	\$ 3,070.87	\$ 82,792.46	\$ 137,000	60%
Small tools and instruments	\$ 8,376.29	\$ 2,211.00	\$ 15.37	\$ 1,334.40	\$ 3,000	44%
<b>Total Staff Budget</b>	<b>\$ 985,101.46</b>	<b>\$ 946,945.67</b>	<b>\$ 36,678.94</b>	<b>\$ 723,062.34</b>	<b>\$ 1,109,081</b>	<b>65%</b>
<b>Total Operating Expenditures</b>	<b>\$ 3,465,138.55</b>	<b>\$ 3,630,101.67</b>	<b>\$ 253,664.25</b>	<b>\$ 3,342,852.46</b>	<b>\$ 4,428,057</b>	<b>75%</b>

1 - As of June 30, 2019.

2 - Total Operating Expenditures in current month do not match the check register due to accounts receivable, capital purchases, and petty cash transactions.

**Alameda County Mosquito Abatement District  
Investment, Reserves, and Cash Balance Report  
May 31, 2020. (11 of 12 mth, 92%)**

Account #	Investment Accounts	Beginning Balance	Deposits	Withdrawals	Interest Activity	Ending Balance
1004	LAIF	\$ 1,305,188.85	\$ -	\$ (257,000.00)	\$ -	\$ 1,048,188.85
1005	OPEB Fund	\$ 4,259,025.52	\$ -	\$ -	\$ 145,353.62	\$ 4,404,379.14
1006	VCJPA Member Contingency	\$ 369,337.00	\$ -	\$ -	\$ -	\$ 369,337.00
1008	CAMP: Repair and Replace	\$ 975,548.35	\$ -	\$ -	\$ 552.82	\$ 976,101.17
1009	CAMP: Public Health Emergency	\$ 524,889.95	\$ -	\$ -	\$ 297.44	\$ 525,187.39
1010	CAMP: Operating Reserve	\$ 1,939,413.28	\$ -	\$ -	\$ 1,099.01	\$ 1,940,512.29
1011	CAMP: Capital Reserve Fund	\$ 131,167.57	\$ -	\$ -	\$ 74.33	\$ 131,241.90
1012	PARS: Pension Stabilization <sup>1</sup>	\$ 1,490,604.94	\$ -	\$ -	\$ 73,788.93	\$ 1,564,393.87
<b>Total</b>		<b>\$ 10,995,175.46</b>	<b>\$ -</b>	<b>\$ (257,000.00)</b>	<b>\$ 221,166.15</b>	<b>\$ 10,959,341.61</b>
		Beginning Balance			Activity	Ending Balance
Cash Accounts				Withdrawals		
1001	Bank of America (Payroll Account) *	\$ 108,006.92			-	\$ 111,438.14
1002	Bank of The West (Transfer Account) * <sup>2</sup>	\$ 299,444.36			-	\$ 314,783.56
1003	County Account <sup>2</sup>	\$ 2,090,382.33	\$ (1,939,433.04)		\$ 172,055.90	\$ 323,005.19
1013	Petty Cash	\$ 240.98			\$ (16.15)	\$ 224.83
<b>Total</b>		<b>\$ 2,498,074.59</b>	<b>\$ (1,939,433.04)</b>		<b>\$ 172,039.75</b>	<b>\$ 749,451.72</b>

1- PARS - Pension Stabilization balance is as of April 30, 2020.

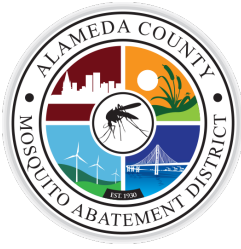
2 - \$1,939,433.04 withdrawn from County fund. Deposited into Bank of the West on 06/02/2020 (will reflect on June statement). Funds will be transferred to LAIF account.

\* - Ending balance differs from beginning balance due to checks clearing the account.



**ACMAD Balance Sheet Guide: April 2020**

<b>ASSETS</b>		<u>4/30/2020</u>	<u>4/30/2019</u>	<b>Explanation</b>
Current Assets				
Cash	\$	1,612,853.82	-	PARS is no longer being reported stand-alone on the balance sheet, would only be reported on the balance sheet if it was a liability to the district.
Bank of America payroll		108,270.63	116,869.03	Current book balance, different from the ending balance shown on bank statement, due to outstanding deposits (will not match IRC page).
Bank of the West		393,000.71	306,253.58	" "
County		2,089,937.54	1,934,761.19	Current balance in County account.
Cash with LAIF		1,305,188.85	1,755,235.90	Current balance in LAIF (working capital) account.
VCJPA- Member Contingency		369,337.00	348,346.00	Reserve ammount with VCJPA (updated quarterly)
VCJPA - Property Contingency		-	52,025.00	No longer used, combined with member contingency
CAMP - Repair and Replace		975,548.35	462,093.48	Reserve committed to repair or replace capital assets.
CAMP - Public Health Emergency		524,889.95	514,618.54	Reserve committed for public health emergencies.
CAMP - Operating Reserve		1,939,413.28	1,901,461.47	Reserve committed as an emergency rainy-day fund (= to 60% of current year expenses)
CAMP - Capital Reserve Fund		131,167.57	230,365.26	Reserve for current year capital assets or non-capital facility maintenance.
PARS <sup>1</sup>		-	1,046,919.42	PARS is no longer being reported stand-alone on the balance sheet, would only be reported on the balance sheet if it was a liability to the district.
Petty cash		240.98	365.88	To reimburse employees - under \$50
<b>Total Current Assets</b>		<b>9,449,848.68</b>	<b>8,669,314.75</b>	
Property and Equipment				
Acc Dep - equipment		(1,285,336.98)	(1,306,030.50)	Accumulated depreciation expense from date of purchase through current useful life, which reduces assets book values.
Acc Dep - stru & improv		(2,349,631.01)	(2,316,874.89)	" "
Acc Dep - conts in progress		5,523.00	-	" "
Construction in progress		590,279.99	260,539.80	Accumulated cost of a project yet to be completed.
Equipment		1,699,506.64	1,619,670.10	Original cost of depreciable equipment item.
Structure/improvement		4,638,621.62	4,529,022.67	Original cost of depreciable structure/ improvement item.
Land		61,406.00	61,406.00	Original purchase price of owned land; will not change.
Total Property and Equipment		3,360,369.26	2,847,733.18	
Other Assets				
Net OPEB Asset		716,666.00	716,666.00	Amount reported on actuary report. Pre-paid amount (overfunded), still considered an asset to the district. The amount has not changed because we have not withdrawn or added to account in the current year.
Total Other Assets		716,666.00	716,666.00	
<b>Total Assets</b>	<b>\$</b>	<b>13,526,883.94</b>	<b>12,233,713.93</b>	
<b>LIABILITIES AND CAPITAL</b>				
Current Liabilities				
Accounts payable	\$	99,656.53	\$ 84,369.59	Invoices due but yet to be paid.
Accounts Payable Credit Card		-	25,602.29	Current credit card purchases, no longer shows up on balance sheet due to credit card clearing out when credit card statement is paid.
Acc payroll/vacation		187,668.43	167,855.50	District's debt from employees' unused vacation time.
Def inflow - GASB 75		41,760.00	41,760.00	Other post employment benefit cost. Projected but yet to be incurred. Actuary is suggesting what is going to happen but hasn't happened yet.
Def inflow pen defer GASB 68		809,861.00	809,861.00	Pension benefit cost projected but yet to be incurred. Actuary is suggesting what is going to happen but hasn't happened yet.
Defer outflow pen cont GASB 68		(818,392.00)	(818,392.00)	Payments into pension incurred but yet to be posted against the outstanding liability at a given point of time.
Net pension liability GASB 68		2,642,666.00	2,642,666.00	Unfunded pension accrued liability as estimated by an actuary as of a given point of time.
Total Current Liabilities		2,963,219.96	\$ 2,953,722.38	
<b>Total Liabilities</b>		<b>2,963,219.96</b>	<b>2,953,722.38</b>	
Designated fund balances		4,100,295.19	4,100,295.19	Board approved reserves for designated purposes.
Investment in general fixed as		4,637,374.11	3,641,677.79	Value of fixed assets left any accumulated depreciation and or debt.
Net Income		1,825,994.68	1,538,028.58	Net Income = Gross Income - Expenses
<b>Total Capital</b>		<b>10,563,663.98</b>	9,279,991.56	Sum of designated fund balances, investment in general fixed assets and net income.
<b>Total Liabilities &amp; Capital</b>	<b>\$</b>	<b>13,526,883.94</b>	<b>12,233,713.94</b>	



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## MONTHLY STAFF REPORT –1080

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General Manager

### 1. OPERATIONS REPORT

In May, operations staff had the opportunity to test out our two newest pieces of equipment. One was the first treatment utilizing the A-1 Super Duty mist blower was conducted. This was a treatment with 12-AS (a Bti formulation) conducted in tidal marshes in the southern part of the county to treat larvae of *Aedes dorsalis*. The A-1 was calibrated and tested in March and this treatment was the first field trial with the unit. On the day of the treatment, the wind direction was opposite the norm due to an incoming front. This required changing the plan on site. Operations staff also conducted hand treatments in other areas in the same marshes where the A-1 could not achieve a good swath width or was otherwise hindered by the wind direction. Based on trap and service request data, the treatments were successful. It was a good learning experience for future treatments in these sources at least one of which is planned for high tides in June.

The main objective of the A-1 purchase was to be able to perform “WALS” treatments in residential settings immediately upon the arrival of invasive *Aedes* mosquitoes in our county. Operations have and will be conducting other treatments with this unit moving forward. Our aim is to have operations staff be familiar with the use, safety, and capabilities of the A-1 prior to its use in neighborhood settings. Operations staff are also looking into other source types that may be conducive to the use of the A-1.

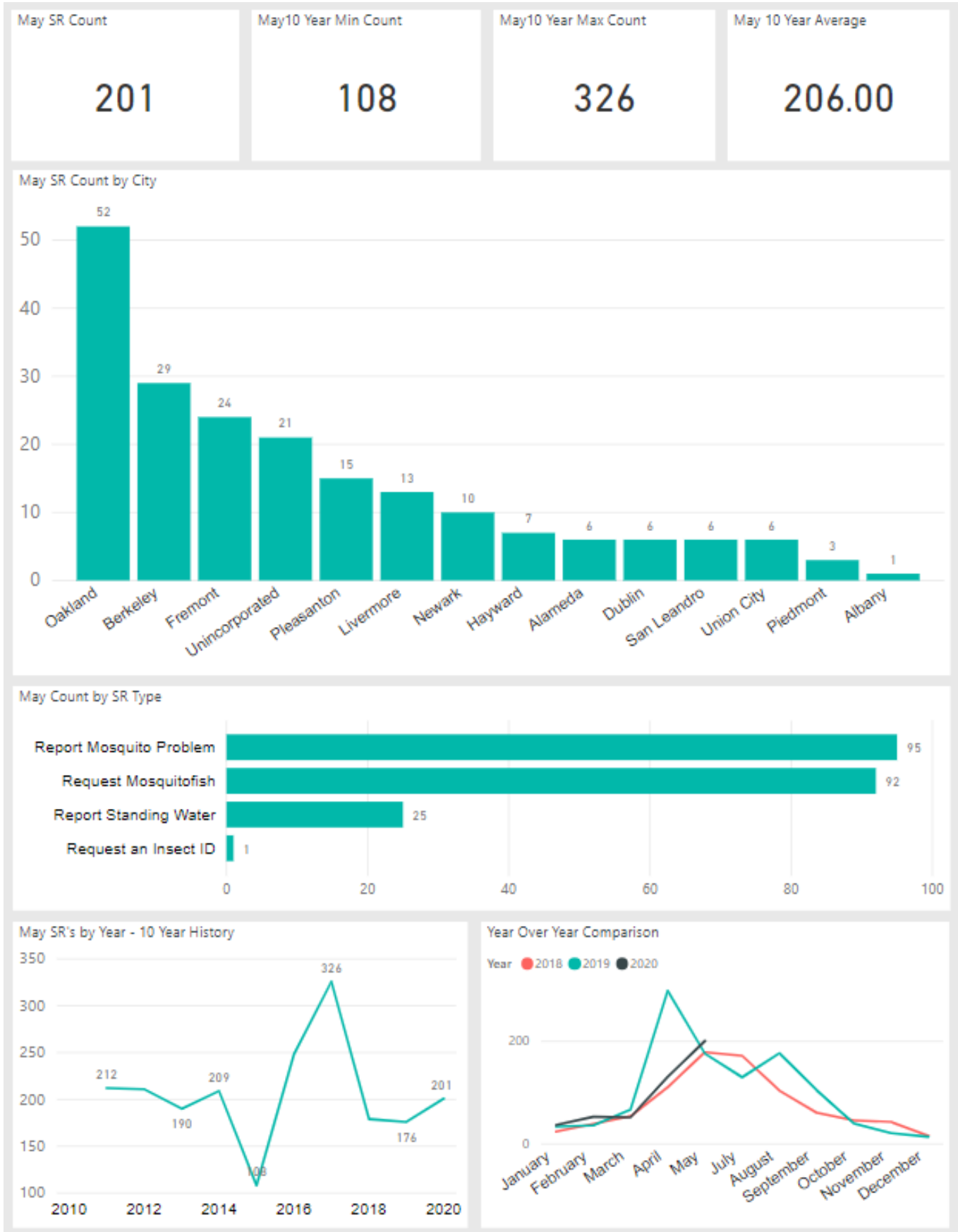
The second new piece of operations equipment to “get off the ground” during May was our new AGRAS MG-1P treatment UAS (drone). The maiden test flight was conducted on May 1<sup>st</sup>. This was followed up with the first calibration test on May 28<sup>th</sup>, witnessed by staff and Trustee Eric Hentschke. Another calibration test is planned for early June with the goal to have the AGRAS fully calibrated to perform our first field treatment by later June or July. The UAS will allow for treatments in areas that are difficult or impossible to access with current district equipment at a cost significantly less than bringing in a helicopter. The expectation is to increase source access, operations staff safety, and treatment efficiency in numerous sources county-wide. Operations currently has three FAA certified UAS pilots, one who also is certified to apply pesticides from the air by the DPR. Several more operations staff members will be attaining certification from the FAA and DPR as testing resumes after being halted due to COVID-19.

Two-hundred and one requests for service were received by the district during the month of May. This number was close to the ten-year average for the month. Nearly half of these calls were requests to report mosquito problems. As in the past few months, a significant number of these calls were attributable to “mosquito-like” insects, but operations staff noted a number of calls that were due to *Aedes sierrensis*, commonly known as the “tree-hole” mosquito. This species does not typically fly far from its breeding source but can be quite concentrated in some areas and is an aggressive day-biter. Sources for this mosquito are often difficult to locate and access and can require a lot of effort on the part of operations staff to treat. Most of the other requests were for mosquito fish. The remaining twenty-five were requests to inspect standing water that could produce mosquitoes, and one request to ID an insect. Operations staff continued to inspect and treat for *Culex spp.* mosquitoes in May in an ongoing effort to reduce numbers of mosquitoes capable of vectoring West Nile virus. To date, no WNV positive birds or mosquitoes have been collected in Alameda county. Efforts will continue in the months to come to inspect and treat sources for all *Culex spp.* mosquitoes county-wide.

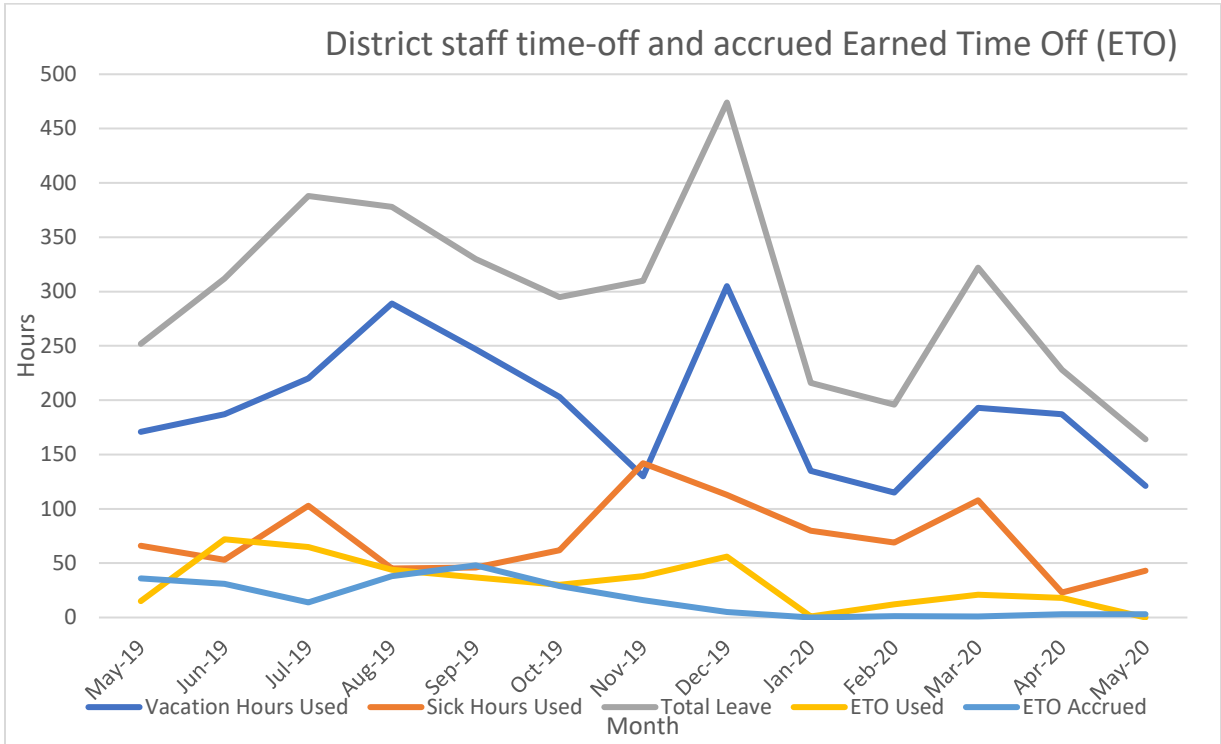
Field Operations Supervisor  
Joseph Huston

## A. District Data

### 1. Service Requests

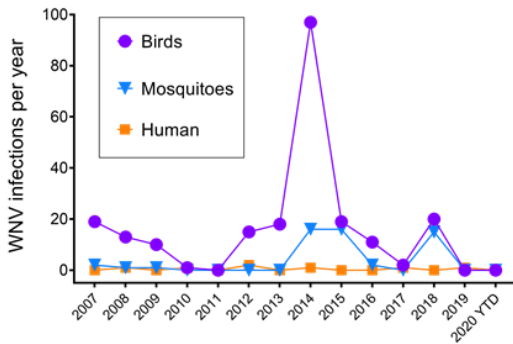


## 2. Activity Report

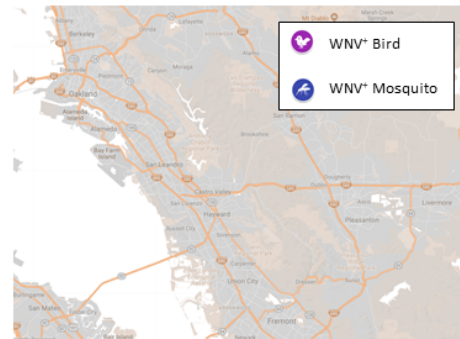


## 3. WNV Activity

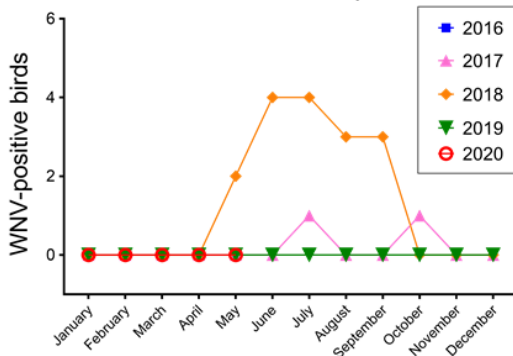
WNV infections detected in Alameda County 2005 – 2020 YTD



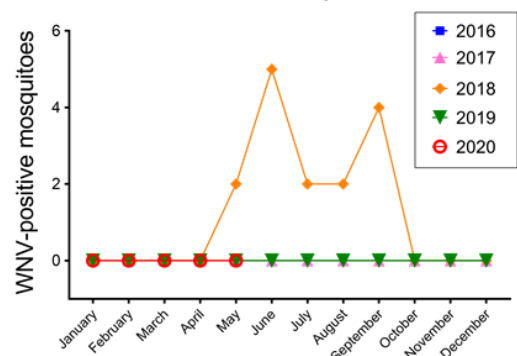
Locations of WNV-infected mosquitoes and birds collected in Alameda County during 2020



WNV-infected birds collected in Alameda County



WNV-infected mosquitoes collected in Alameda County





## 2. LAB

### Summary

- West Nile virus (WNV) was not detected in birds or mosquitoes during May 2020.
- Mosquito abundance during May 2020 as measured using encephalitis virus survey (EVS) traps that were baited with CO<sub>2</sub> was lower than the same period of 2019, but similar to May 2018.
- Adult mosquito abundance measured using New Jersey Light Traps (NJLT) was lower than the prior two years.
- A total of 3,249 mosquitoes were captured in traps and identified to species during May 2020.
- The aerial drone can be used to produce orthomosaic elevation maps for determining if ditch systems are draining properly.

### Arbovirus Monitoring

- WNV was not detected in birds or mosquitoes during the month of May 2020.
- None of the mosquitoes or birds that were collected during 2020 were found to contain Saint Louis encephalitis virus (SLEV) or Western equine encephalitis virus (WEEV).

### Native Mosquito Abundance

- Over the course of 155 trap nights, a total of 2242 mosquitoes were captured in EVS traps (Figure 1). There were on average 14.5 mosquitoes per trap night during May 2020; for the prior month, there were 12.1 mosquitoes captured per trap night (a 1.2-fold increase). *Culex tarsalis*, which is a WNV vector, was the most common species collected in the EVS CO<sub>2</sub> traps during May 2020, representing 36% of the mosquitoes that were collected (Figure 2). EVS CO<sub>2</sub> traps were placed at six sites in Albany, CA (Figure 3). Approximately 9% of the EVS CO<sub>2</sub> traps that were placed during May did not capture any mosquitoes (Figure 3C).
- Mosquito abundance, as measured using NJLT, also remained very low for May 2020 (1.0 mosquitoes / trap night, respectively; total of 261 mosquitoes over 259 trap nights; Figure 4). In contrast, during May 2018 and 2019, 2.2 and 1.2 mosquitoes were collected per trap night, respectively. *Culiseta incidens*, which is not a WNV vector, remained the most abundant species collected in NJLT during May 2020 (Figure 5). The greatest number of mosquitoes were collected in the Sunol NJLT during May 2020 (n = 68; Figure 6).

### Invasive Aedes Monitoring

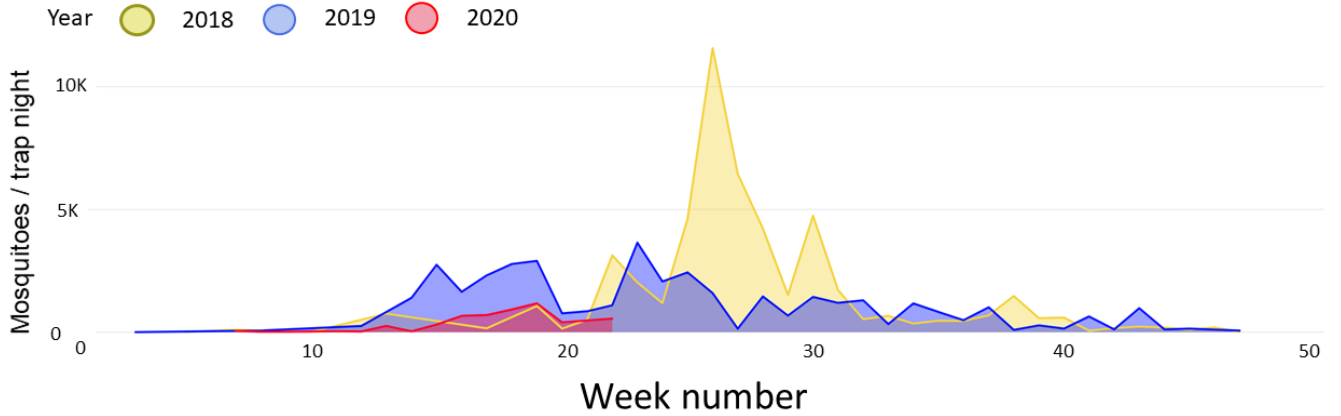
- Invasive *Aedes* mosquitoes have not been detected in any mosquito trap placed in Alameda County during 2020.

### Drone to assess ditch performance

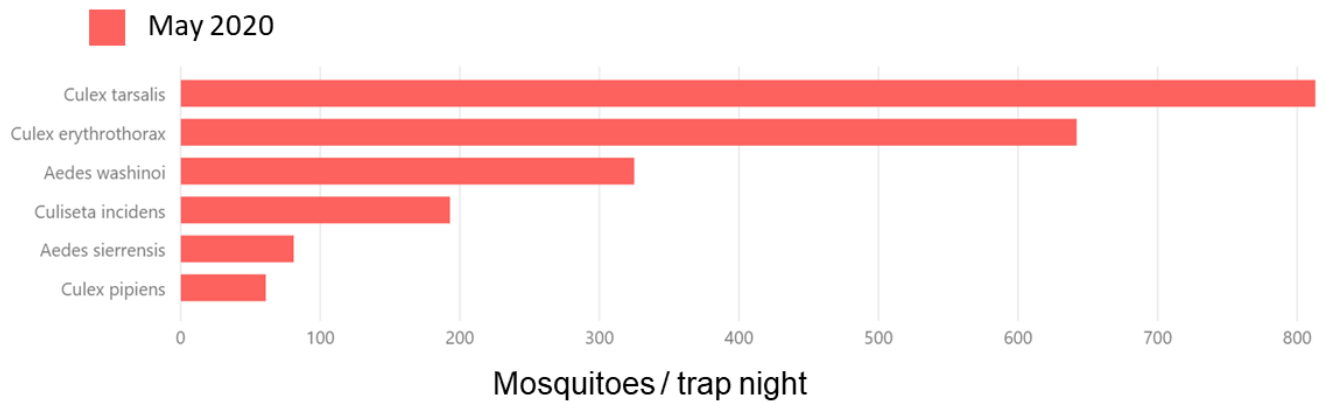
- In collaboration with Erika Castillo, Regulatory and Public Affairs Director, the ACMAD Operations Mavic Zoom drone (i.e. UAS) was used to assess elevation changes in the ditch system at Patterson Hill Marsh (Union City, CA). The mission was flown during a period of low tide so that the lowest possible regions of the ditches were exposed. Briefly, the drone was programmed for autonomous flights above the site where it captured imagery from perpendicular and oblique angles. Over 1,100 images were combined using DroneDeploy software to produce a single orthomosaic map (Figure 7). The resulting map was analyzed using DroneDeploy software to quantify differences in elevation. The most prominent ditches were apparent from Google Maps imagery (Figure 7A). However, the smaller overgrown ditches were better visualized using the drone imagery (Figure 7B, orange arrowheads). In the computed elevation map, low areas are shown as dark blue and the highest elevations in red (Figure 7C). Potholes that could accumulate water and support mosquito breeding are obvious in the elevation map (Figure 7C, white arrowheads), but are not visible in the Google map or drone image (Figures 7A, 7B). The ditches in the

red box (Figure 7C) show low areas that would not drain properly and are not apparent in the Google or UAS images (Figures 7D, 7E), but can be easily seen as regions of dark blue in the elevation map (Figure 7F, pink arrowheads). ACMAD can utilize its aerial drone to produce orthomosaic elevation maps to determine if ditching systems are functioning properly. However, the drone that was utilized has limited flight capabilities, and is not practical for large scale landscape imaging projects. Doing so would require a high-resolution camera that can be attached to the DJI 210 RTK, which has a substantially greater flight time.

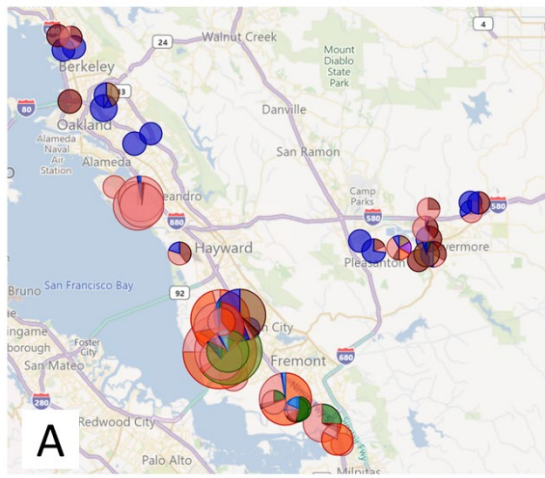
**FIGURES**



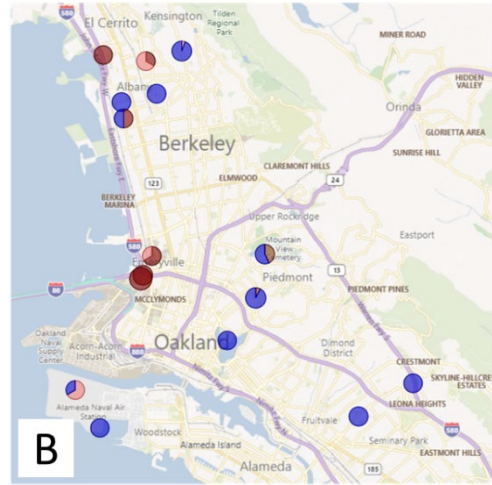
**Figure 1. Mosquitoes captured in EVS CO<sub>2</sub> traps from 2018 – 2020.** A total of 2242 mosquitoes were captured in EVS CO<sub>2</sub> traps during May 2020 and identified to species.



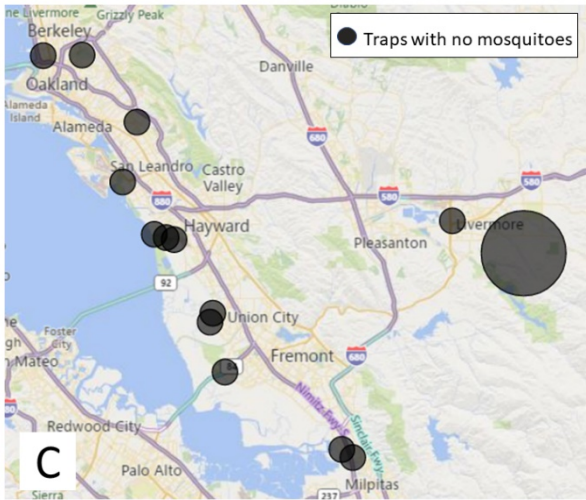
**Figure 2. The six-most abundant species of mosquito captured during May 2020 using EVS CO<sub>2</sub> traps.**



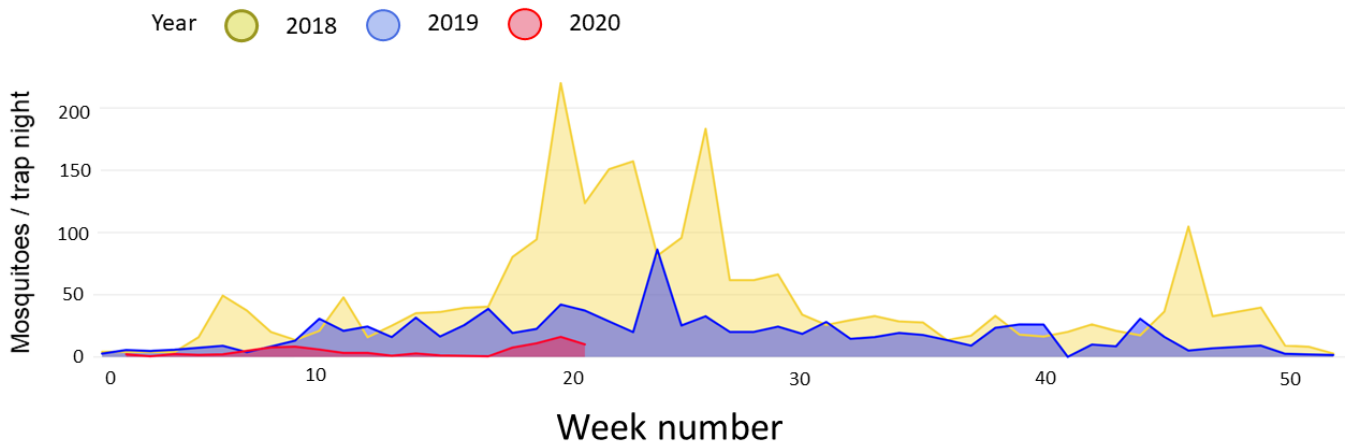
- Species**
- *Aedes dorsalis*
  - *Aedes sierrensis*
  - *Aedes squamiger*
  - *Aedes washinoi*
  - *Anopheles freeborni*
  - *Culex erythrothorax*
  - *Culex pipiens*
  - *Culex tarsalis*
  - *Culiseta incidens*
  - *Culiseta inornata*
  - *Culiseta particeps*



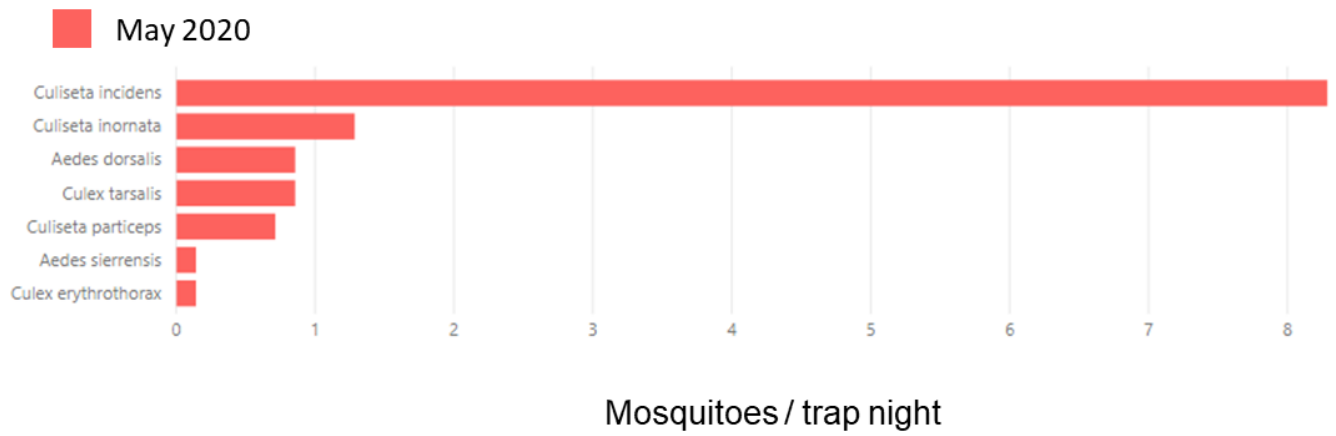
- Species**
- *Aedes sierrensis*
  - *Culex pipiens*
  - *Culex tarsalis*
  - *Culiseta incidens*



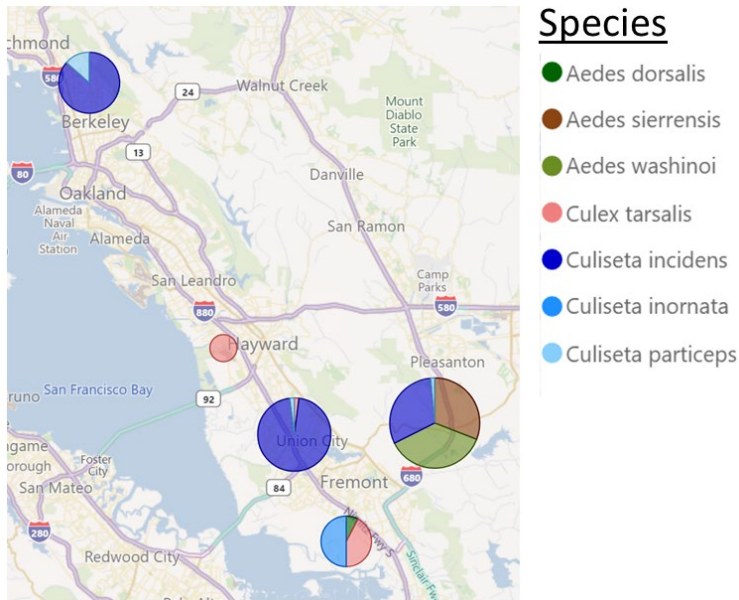
**Figure 3. Mosquito abundance by trap site evaluated using EVS CO<sub>2</sub> traps.** Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The size of the pie charts indicates the relative number of mosquitoes at each site during May 2020. (A) Entirety of Alameda County. (B) North county region, including Albany. (C) Location of EVS traps that did not contain mosquitoes. The size of each grey circle indicates the relative number of traps that lacked mosquitoes at a site.



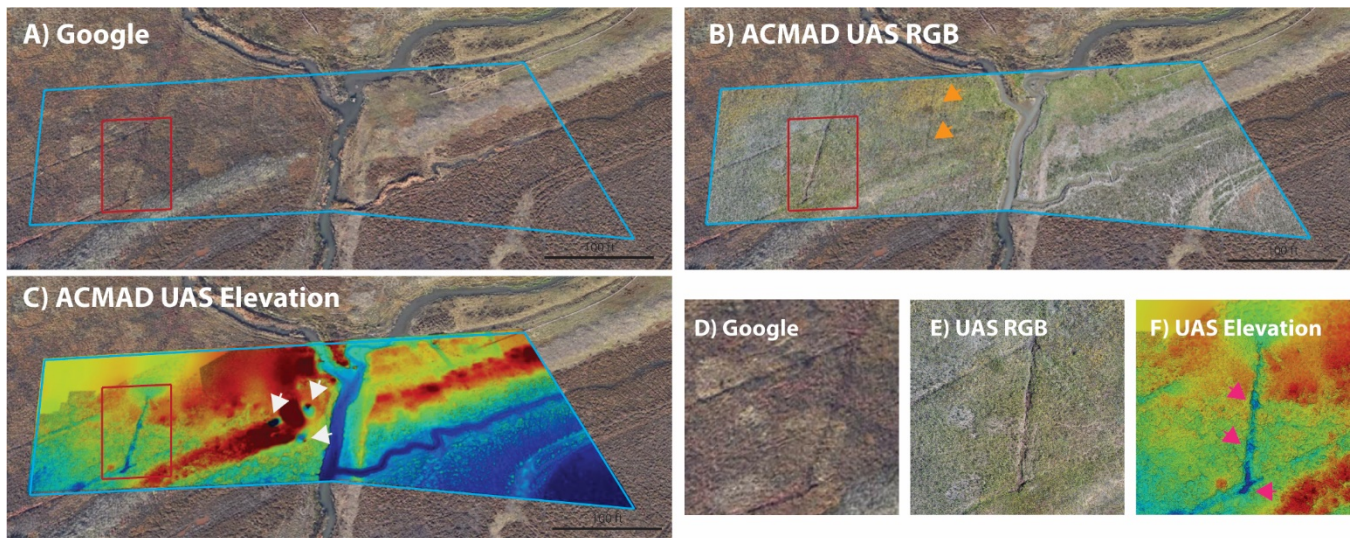
**Figure 4. Mosquitoes captured in NJLT from 2018-2020.** A total of 261 mosquitoes were captured in NJLT during May 2020 and identified to species.



**Figure 5. The six-most abundant species of mosquito captured during May 2020 in NJLT.**



**Figure 6. Geographic distribution of mosquito abundance in Alameda County evaluated using NJLT. Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site.**



**Figure 7. Orthomosaic elevation mapping using the ACMAD unmanned aircsystem (UAS, *i.e.* drone).** The drone was piloted autonomously above Patterson Hill Marsh in the area shown in the blue polygon to collect imagery that was orthogonal and perpendicular to the drone. **(A)** Google Map image of the site that was assessed with the drone. **(B)** Orthomosaic image captured using the drone shows much higher resolution relative to the Google Map (orange arrowheads show a ditch that is not obvious in the Google Map image). **(C)** Computed orthomosaic elevation map captured using the drone shows areas with low elevation in dark blue and high elevation in red. White arrowheads denote potholes that could support mosquito breeding and are not apparent in 7A or 7B. **(D)** Google map image, **(E)** orthomosaic drone image, and **(F)** computed orthomosaic elevation image of the area shown in the red box of Figure 7C (pink arrowheads show low elevation areas that may not drain properly).

### 3. PUBLIC EDUCATION

#### A. Events

##### i. Upcoming

- No events currently planned

#### B. Streaming TV Advertisements

- Video ads covering all of Alameda County
- Started on May 1<sup>st</sup>
- Run through July 16<sup>th</sup>
- Running a 30 second ad

Client	Product	Start Date	End Date	Contracted Impressions	Delivered Impressions	Video Completes	Video Completion Rate
ACMAD	OTT/CTV	5/1/2020	5/29/2020	285,714	118,776	115,171	96.96%

Figure 1. May statistics

#### C. Google Analytics

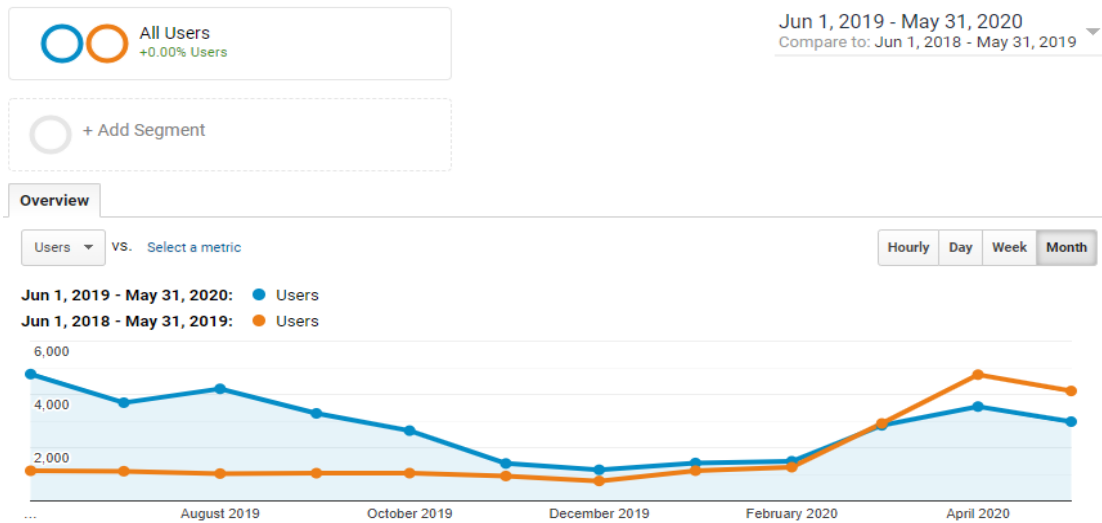


Figure 2. Comparison of website users over the past two years

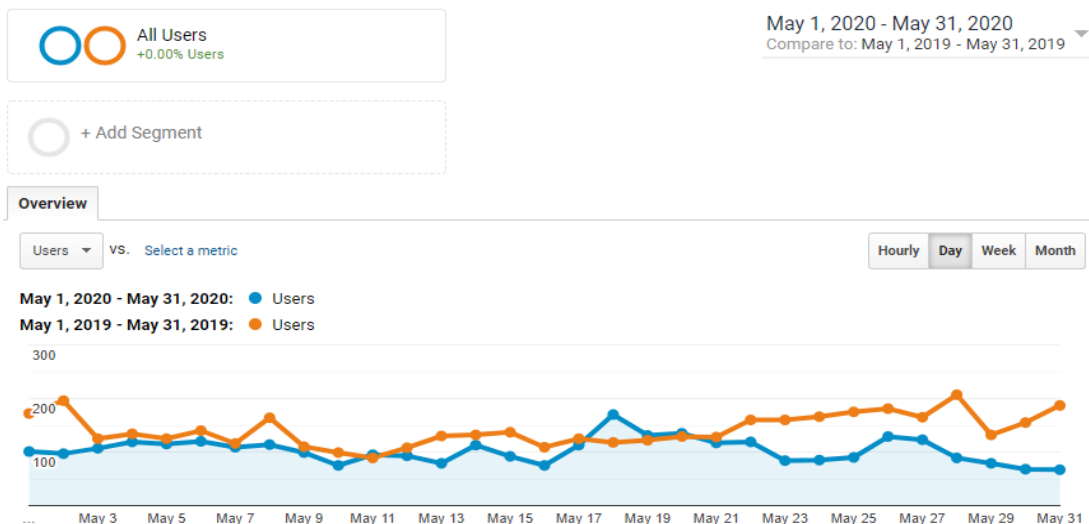
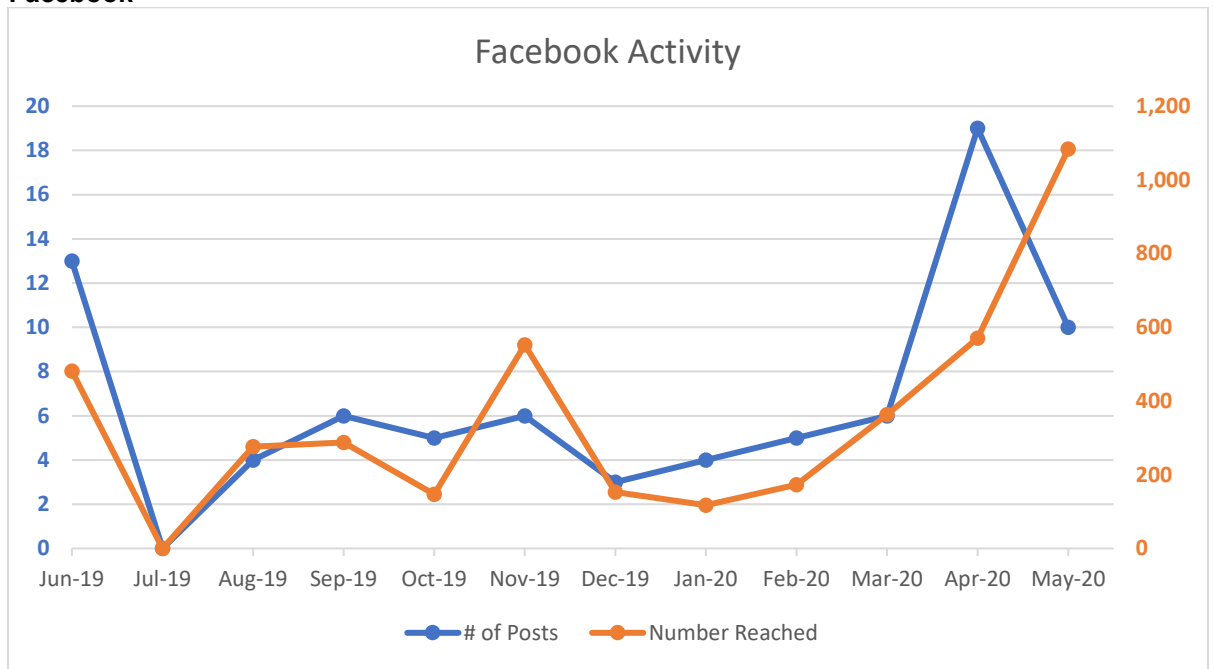


Figure 3. Comparison of website users over the past two years for May.

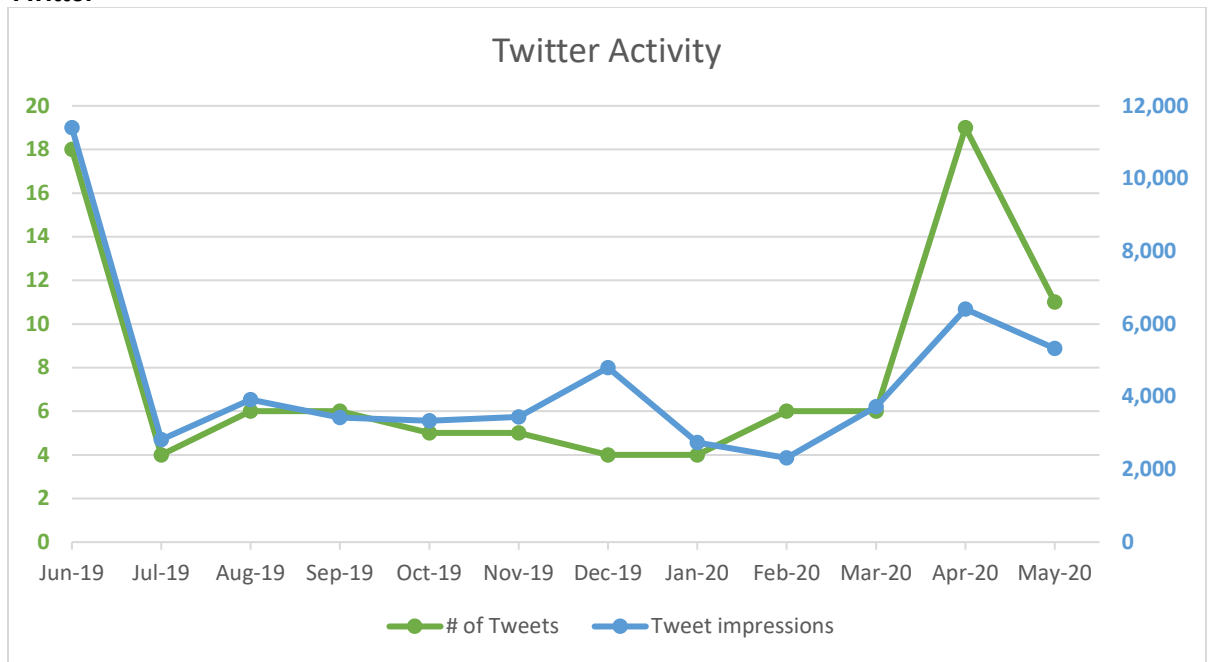
**D. Facebook**



**Total Number of Followers:** 223 (Up from 218 in April)

**May's Most Popular Post:** Did it rain in your area yesterday? Standing water could be in your yard. Make sure to dump and drain any containers holding water.

**E. Twitter**

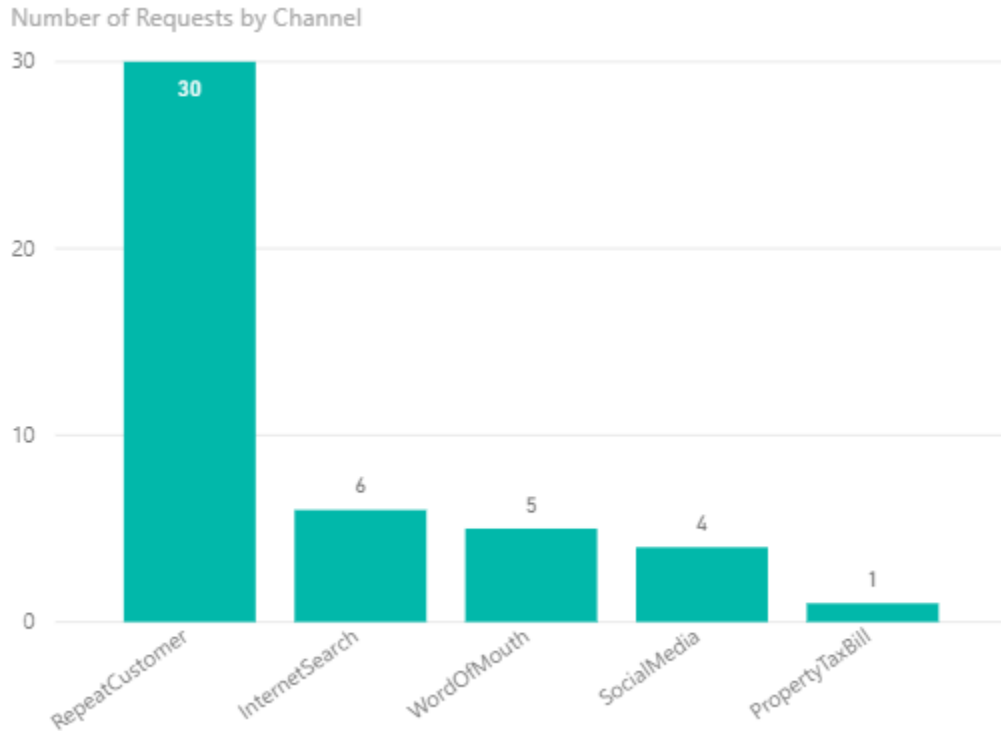


**Number of Profile Visits in May:** 34

**Total Number of Followers (New This Month):** 713 (Up from 709 in April)

**Top May Tweet:** Did you know that there are over 2,000 special districts in California? These districts provide essential services such as mosquito abatement, fire protection, water, sanitation, parks and recreation, health care, and many more. #SpecialDistrictsWeek

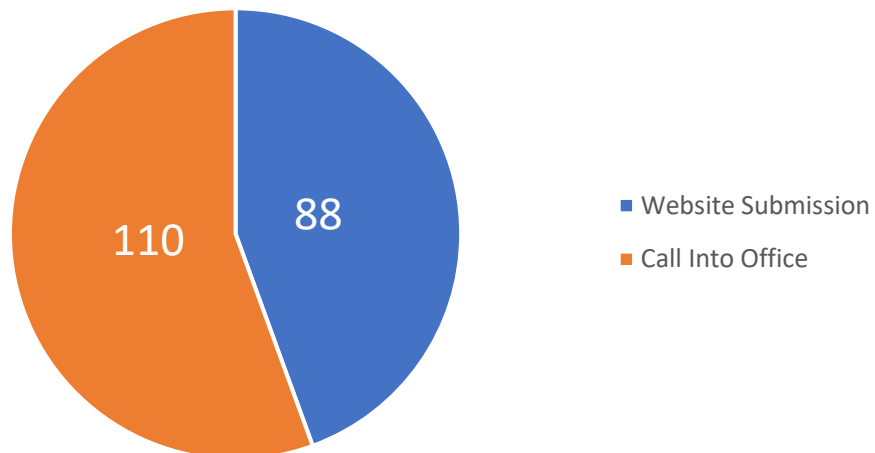
## F. Service Request Referral Summary



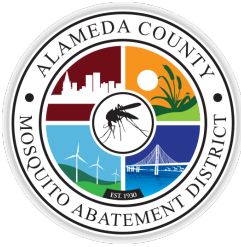
**Note:** News Story, Event, Billboard, Sign, or Poster, Movie Theater Ad, Internet Ad, Phone Book, District vehicle or employee, and Other are also options for this question but were not included on this chart because they were not selected in May.

## G. Methods Used by Residents to Request Service

Methods Used for Request Services in May







23187 Connecticut Street  
Hayward, CA 94545

T: (510) 783-7744  
F: (510) 783-3903

[acmad@mosquitoes.org](mailto:acmad@mosquitoes.org)

## Staff Anniversary Recognitions:

### Board of Trustees

#### *President*

Wendi Poulson

#### **Alameda**

#### *Vice-President*

Robert Beatty

#### **Berkeley**

#### *Secretary*

Betsy Cooley

#### **Emeryville**

Cathy Roache

#### **County at Large**

Shawn Kumagai

#### **Dublin**

George Young

#### **Fremont**

Elisa Márquez

#### **Hayward**

James N. Doggett

#### **Livermore**

Jan O. Washburn

#### **Oakland**

Eric Hentschke

#### **Newark**

vacant

#### **Piedmont**

Julie Testa

#### **Pleasanton**

Victor Aguilar

#### **San Leandro**

Subru Bhat

#### **Union City**

#### **Ryan Clausnitzer**

*General Manager*

### Background:

ACMAD is pleased to recognize and thank the following employee on their anniversaries in the month of June

Employee	Title	Years of Service	Anniversary Date
Dereje Alemayehu	Vector Scientist	21	June 21st



# *Joining Forces with Nonprofits:*

## **LEVERAGING A DISTRICT'S INTEGRITY TO IMPROVE PUBLIC HEALTH AND COMFORT**

*By Ryan Clausnitzer, General Manager, Alameda County Mosquito Abatement District and  
Eric Has-Stapleton, PhD., Lab Director, Alameda County Mosquito Abatement District*

The size and location of your special district should not limit your ability to have an out-sized positive impact regionally, state-wide, or as you will soon find out—globally. Private-sector influence and labor talent may be determined by its number of employees, revenue, and location. Rather than relying on financial and personnel assets, smaller special districts can efficiently leverage their trust and access to the public with a non-profit partner's desire to accomplish their mission.

Alameda County Mosquito Abatement District (ACMAD) is a “small” special district and “mid-sized” mosquito and vector control district with a staff of 17 and an annual budget below \$5 million that serves a population of 1.6 million, 740 square miles, and 14 cities. A district’s “size” is defined by its tax base. Compared to a private section business that must grow to compete, we focus on controlling costs through efficiency measures such as establishing mutual aid agreements, automation, and by partnering with non-profits such as the Chan-Zuckerberg Biohub (CZ Biohub). CZ Biohub is a medical research organization in the San Francisco Bay Area that was founded in 2016 with a \$600 million endowment, employing scores of researchers at their facility in San Francisco, and supporting over 60 faculty and research initiatives across UC Berkeley, UC San Francisco, and Stanford.

The vision of CZ Biohub is to help cure, prevent, or manage all disease in our children’s lifetime. This aligns well with our district’s mission to improve the health and comfort of Alameda County residents by controlling mosquitoes, thereby limiting the transmission of mosquito-borne diseases. Due to many well-established mosquito abatement districts, mosquitoes in the US are considered by most to be merely an annoyance. However, worldwide they spread life-threatening infectious diseases to nearly 700 million people each year, resulting in over one million deaths. Increasing global temperatures is rapidly reshaping the geographic distribution of mosquitoes, bringing them and the diseases they carry to ever higher latitudes. The rapid spread of Zika virus brightly illustrates this intersection of people, pathogen, and mosquitoes. Understanding when and where the microbes that cause these diseases are present in mosquitoes provides information that is needed to control infectious mosquitoes.

Our collaboration with CZ Biohub began in 2017 as a bold initiative to sequence representative members of the mosquito species circulating in California and investigate the commensal and pathogenic microbes they carry (i.e., their metagenome). Foundational to this effort was the intensive mosquito monitoring program that our district already had in place. This allowed us to quickly demonstrate project feasibility to the leadership at CZ Biohub and the district. At the onset, core project team members from CZ Biohub and ACMAD visited each other’s facilities to gain a hands-on appreciation of our workflows and capacities for understanding how we could best synergize our efforts. Appreciating for example that changing the type of tube used to collect the mosquitoes would enable the use of automated DNA and RNA extracting robots was fundamental to launching the project beyond our district border.

The first phase of the project successfully characterized the metagenome of individual mosquitoes that were collected from Alameda County and encouraged us to invite four other special districts to contribute mosquitoes from their regions. The outcomes of this project were recently uploaded to an open access preprint repository where we describe novel viruses and the relative prevalence of the diverse microbes that we detected in the mosquitoes ([www.biorxiv.org/](http://www.biorxiv.org/)



*Staff from the Alameda County Mosquito Abatement District laboratory removing mosquitoes from a 3D printed mosquito trap (left) and determining the species of mosquito using a microscope (right) for our collaboration with CZ Biohub.*

content/10.1101/2020.02.10.942854v1). This study sprouted wings internationally when CZ Biohub integrated the workflow developed for this California-focused project to enable concomitant cutting-edge pathogen detection and discovery in mosquitoes and humans from low- and middle-resourced settings such as Uganda, Bangladesh, and Cambodia. Dr. Amy Kistler, the group leader of the Infectious Disease Initiative that led the CZ Biohub team tells us “being able to initiate this project with highly skilled and engaged local partners in the context of the well-resourced setting of the Bay Area was a critical to the success of this initiative and the subsequent work we are now pursuing in the global health setting. Our engagement with the ACMAD allowed us to close key gaps in content knowledge, rapidly iterate, and integrate experiments in the field and the lab bench. The scientific exchange that occurred during reciprocal site visits at CZ Biohub and the ACMAD Lab were particularly helpful. Insights from these interactions gave everyone on the CZ Biohub team a deeper appreciation of what our local partners in this special district does, and

*continued on page 14*

they also provided us a better sense of the general challenges of work in the field. This enabled us to develop a robust approach for mosquito collection, sequencing, and analysis.” On January 8th, 2020, Dr. Kistler shared the results of this study to a packed room during the bimonthly Alameda County Special District Chapter membership meeting at our district’s facility in Hayward.

To make the collaboration a win-win for CZ Biohub, special districts that focus on mosquito control, and the public, CZ Biohub also mined the mosquito sequence data that was captured during our collaboration to recover and assemble sequences of a mosquito gene known to confer resistance to pesticides. Prior to this study, these sequences were not available for several of California’s most highly prevalent native mosquito species. This data formed the starting point for a Master of Public Health intern from UC Berkeley to successfully develop a genetic test for mosquito pesticide resistance in

*Dr. Amy Kistler from CZ Biohub describes their goals to help cure, prevent or manage all disease in our children’s lifetime and how the mosquito metagenome sequencing project with Alameda County Mosquito Abatement District furthers their aim to locate mosquito-borne disease outbreaks before they are spread broadly in the community.*



our district lab. This breakthrough enables mosquito control labs across the nation to now test for pesticide resistance in all of the mosquito species that transmit West Nile virus in California using a single test.

This type of partnership is not unique to our district. For example, Consolidated Mosquito Abatement District is working with Verily Life Sciences to develop new approaches

for limiting the spread of mosquitoes that transmit dengue and Zika viruses. Talent and good ideas are found in all district sizes; however, barriers such as lack of resources and staff time can sometimes jeopardize one’s ability to convert talent and ideas to action. Tools such as CSDA’s District Networks and Affiliated Chapters can be leveraged to build foundations that support mutual beneficial partnerships in your community. 🐼





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