



Coachella Valley Mosquito  
and  
Vector Control District

43420 Trader Place  
Indio, CA 92201  
Phone (760) 342-8287  
[www.cvmosquito.org](http://www.cvmosquito.org)

## **Board of Trustees Meeting Via Zoom**

**Tuesday, May 12, 2020**

**6:00 p.m.**

### **AGENDA**

**In the interest of maintaining appropriate social distancing and to comply with orders issued by Governor Newsom, the Board encourages the public to participate in this meeting via Zoom by calling 1-888-475-4499 (toll free), Meeting ID: 847 9070 6333 or click this link to join: <https://us02web.zoom.us/j/84790706333>. If you would like to comment on the agenda item or subject matter within the jurisdiction of the Board, please email your public comment to the Clerk of the Board by 2:00 p.m. on May 12, 2020 at [gmorales@cvmvcd.org](mailto:gmorales@cvmvcd.org).**

Assistance for those with disabilities: If you have a disability and need accommodation to participate in the meeting, please call the Clerk of the Board at (760) 342-8287 for assistance so the necessary arrangements can be made.

- 1. Call to Order – Franz De Klotz, President**
- 2. Pledge of Allegiance**
- 3. Roll Call**
- 4. Motion to Excuse Absences**
- 5. Confirmation of Agenda**
- 6. Public Comments**

Those wishing to address the Board should complete a Public Comment Card and provide it to the Clerk of the Board.

A. **PUBLIC Comments — AGENDA ITEMS:** Persons wishing to address the Board on agenda items are requested to do so at this time. When addressing the Board, please come to the podium and give your name and address for the record. In order to conduct a timely meeting, a three-minute time limit per person per item has been established.

B. **PUBLIC Comments — NON-AGENDA ITEMS:** Persons wishing to address the Board on items not appearing on the agenda are requested to do so at this time. When addressing the Board, please come to the podium and give your name and address for the record. In order to conduct a timely meeting, a three-minute time limit per person has been established. California Government Code Section 54950 prohibits the Executive Committee from taking action on a specific item until it appears on the agenda.

## **7. Board Reports**

### A. President's Report – **Franz De Klotz, President**

Executive Committee oral report and Minutes for May 1, 2020 **(Pg. 7)**

### B. Finance Committee – **Clive Weightman, Treasurer**

Finance Committee oral report and Minutes for May 1, 2020 **(Pg.13)**

## **8. Items of General Consent**

The following items are routine in nature and may be approved by one blanket motion upon unanimous consent. Any member of the Board or the public may request an item be pulled from Items of General Consent for separate discussion.

A. Minutes for March 10, 2020 Board Meeting and March 23, 2020 Special Board Meeting **(Pg. 18)**

B. Correspondence **(Pg. 29)**

C. Approval of expenditures for March 6, 2020 to May 12, 2020 and Financial Reports **(Pg. 30)**

D. Informational Items:

- Board Business Log **(Pg. 46)**
- Approval of Proclamation supporting the designation of the week of May 17-23, 2020 as California Special Districts Week – **Tammy Gordon, Public Information Officer (Pg. 48)**
  
- Presentations:
  - General Manager's Report – **Jeremy Wittie, M.S., General Manager**
- IVM Program:

- Surveillance and Quality Control Department – **Jennifer A. Henke, M.S., Laboratory Manager**
- Operations Department – **Roberta Dieckmann, Operations Manager**
- Public Outreach Department – **Tammy Gordon, M.A., Public Information Officer**

## 9. Old Business

A. Approval of Resolution 2020-06 Adoption of the 2020 CVMVCD Mosquito-borne Surveillance and Emergency Response Plan – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 52)**

## 10. New Business

A. Ad hoc Research Committee Appointment – **Franz De Klotz, President of the Board of Trustees (Pg. 95)**

B. The Vector Control Joint Powers Agency (VCJPA) seeks an Alternate Trustee Representative to represent all regions on the VCJPA Board of Directors – **Jeremy Wittie, M.S., General Manager (Pg.96)**

C. Discussion regarding the Budget Workshop held before the Board meeting – **Jeremy Wittie, M.S., General Manager and Clive Weightman, Treasurer**

## 11. Closed Session Public Comments

Persons wishing to address the Board on closed session items are requested to do so at this time. When addressing the Board, please come to the podium and give your name and address for the record. In order to conduct a timely meeting, a three-minute time limit per person per item has been established.

A. **Closed Session:** Conference with Labor Negotiators pursuant to Government Code Section 54957.6

Agency Designated Representatives: *Lena D. Wade, Anita Jones and David I' Anson.*

Employee Organizations: California School Employees Association and Teamsters Local 911.

## 12. Trustee Comments, Requests for Future Agendas Items, Travel, and/ or Staff Actions

The Board may not legally take action on any item presented at this time other than to direct staff to investigate a complaint or place an item on a future agenda unless (1) by a majority vote, the Board determines that an emergency situation exists, as defined by Government Code Section 54956.5, or (2) by a two-thirds vote, the board determines that

the need for action arose subsequent to the agenda being posted as required by Government Code Section 54954.2(a). Each presentation is limited to no more than three minutes.

### **13. Adjournment**

At the discretion of the Board, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board. All public records relating to an agenda item on this agenda are available for public inspection at the time the record is distributed to all, or a majority of all, members of the Board. Such records shall be available at the District office located at 43420 Trader Place, Indio, California.

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### **Certification of Posting**

I certify that on May 8, 2020, I posted a copy of the foregoing agenda near the regular meeting place of the Board of Trustees of the Coachella Valley Mosquito & Vector Control District and on the District's website, said time being at least 72 hours in advance of the meeting of the Board of Trustees (Government Code Section 54954.2)

Executed at Indio, California, on May 8, 2020.

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Graciela Morales, Clerk of the Board

**Coachella Valley Mosquito & Vector Control District**

Public Comment / Request to Speak to the Board of Trustees

(Please Print)

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

Meeting Date: \_\_\_\_\_

Address (Street Address Optional\*):  
\_\_\_\_\_

City / State / Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Comment / Question:  
\_\_\_\_\_  
\_\_\_\_\_

**Please adhere to the following rules:**

- State your name and city in which you reside
- Address your comments to the Board of Trustees as a whole
- Limit your comment to no more than three (3) minutes

This form is not mandatory but please note that priority will be given to those speakers that have filled out the form and turned it into the Clerk of the Board.

This form is subject to public disclosure.

*The Coachella Valley Mosquito and Vector Control District welcomes your comments!*



**Coachella Valley Mosquito & Vector Control District**

Public Comment / Request to Speak to the Board of Trustees

(Please Print)

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

Meeting Date: \_\_\_\_\_

Address (Street Address Optional\*):  
\_\_\_\_\_

City / State / Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Comment / Question:  
\_\_\_\_\_  
\_\_\_\_\_

**Please adhere to the following rules:**

- State your name and city in which you reside
- Address your comments to the Board of Trustees as a whole
- Limit your comment to no more than three (3) minutes

This form is not mandatory but please note that priority will be given to those speakers that have filled out the form and turned it into the Clerk of the Board.

This form is subject to public disclosure.

*The Coachella Valley Mosquito and Vector Control District welcomes your comments!*



**SECTION**

**7**



# **BOARD REPORTS**

# COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

## Executive Committee Meeting Via Zoom Minutes

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**TIME:** 12:00 p.m. Friday, May 1, 2020

**LOCATION:** 43420 Trader Place, Indio, CA 92201

**TRUSTEES PRESENT:**

County at Large	Franz De Klotz	La Quinta	Doug Hassett
Indian Wells	Clive Weightman	Palm Desert	Doug Walker

**ABSENT:**

**OTHERS PRESENT:**

Jeremy Wittie, M.S., General Manager  
Edward Prendez, Information Technology Manager  
Graciela Morales, Clerk of the Board

**1. Call to Order:** *President De Klotz called the meeting to order at 12:04 p.m.*

**2. Roll Call:** *Roll call indicated four (4) committee members out of four (4) were present.*

**3. Confirmation of Agenda:** *On motion from Trustee Weightman, seconded by Trustee Walker, and carried unanimously, the agenda was approved as presented.*

Ayes: President De Klotz, Trustees Hassett, Walker and Weightman.

Noes: None.

Abstained: None.

Absent: None.

**4. Public Comments** - *Mr. Brad Anderson submitted four public comment letters to be read out loud. However, at the time of the meeting, Mr. Anderson directed the Clerk of the Board not do so. The public comments had been shared with Committee members before the meeting started. His public comments are attached for the record.*

**5. Review of May 12, 2020 Board Meeting Draft Agenda and Budget Workshop Draft Agenda**

*The draft May 12 Board meeting and Budget Workshop agendas were reviewed by the Committee. The Committee directed staff to add the annual Research Committee appointment, and an item to discuss the outcome of the Budget Workshop to the May 12 Board agenda. Jeremy apprised Trustees, starting with the May 12 Board meeting, the General Manager and departmental presentations oral reports will now be on a pre-recorded format and included as a link on the agenda for all to view prior to the meeting. There will be time allotted during the Board meeting to allow for additional dialogue and clarifications, if needed. The Committee did not make any changes to the draft Budget Workshop agenda.*

**6. Review and discussion of Draft Legislative Advocacy Policy**

*The policy was reviewed by the Committee and they supported the idea to place it on the June Board meeting agenda for further review and recommendation for adoption by the full Board.*

**Closed Session Public Comments**

Persons wishing to address the Board on closed session items are requested to do so at this time. When addressing the Board, please come to the podium and give your name and address for the record. In order to conduct a timely meeting, a three-minute time limit per person per item has been established.

**7. Closed Session:** Conference with Labor Negotiators pursuant to Government Code Section 54957.6

Agency Designated Representatives: Lena D. Wade, Anita Jones and David I' Anson.

Employee Organizations: California School Employees Association and Teamsters Local 911.

*President De Klotz announced there was no business to discuss under closed session.*

**8. Trustee/Staff Comments:** *Jeremy shared there is one open position with the VCJPA for an alternate Trustee representative. This will be added to the May 12 Board meeting agenda. Trustee Walker recommended a discussion on the potential financial impacts to the District due to COVID-19. Treasurer Weightman said it would be discussed at the 1:00 p.m. Finance Committee meeting the same afternoon and again at the May 12 meeting.*

**9. Confirmation of Next Meeting Date:** *The next Executive Committee Meeting was scheduled for Tuesday, May 26, 2020, at 12:00 p.m.*

**10. Adjournment:** *The meeting was adjourned by President De Klotz at 12:22 p.m.*



Coachella Valley Mosquito and Vector Control District (CVMVCD)  
43420 Trader Pl.  
Indio, CA. 92201  
(888) 343-9399  
Attn: Clerk of the Board (Graciela Morales)

Re: Written letter (email) to be "READ ALOUD" and entered in to the Public record for the CVMVCD Executive Committee Meeting on the date of May 01, 2020 (12:PM) - Item: 4-A in regards to Item: 5 (Review of Draft May 12, 2020 Board of Trustees Meeting agenda - Items listed)

Dear Sub-committee Members,

Please be responsible to the Residents of the Coachella Valley by reducing the CVMVCD massively inflated proposed Budget and by decreasing and or eliminating the CVMVCD Benefit Assessment that has been unfairly administered by the current CVMVCD General Manager (Mr. Jeremy Wittie) and other Administrators that has shown poor management performance of the People's resources.

Sincerely,

Brad Anderson | Rancho Mirage, CA. | 760.409.9434 (Cell)

Coachella Valley Mosquito and Vector Control District (CVMVCD)  
43420 Trader Pl.  
Indio, CA. 92201  
(888) 343-9399  
Attn: Clerk of the Board (Graciela Morales)

Re: Written letter (email) to be "READ ALOUD" and entered in to the Public record for the Executive Committee Meeting on the date of May 01, 2020 (12:PM) - Agenda Item Number was not listed on the meetings current agenda. Please submit this letter in regards to agenda Item: 7 (closed session topic: Conference with Employment Labor Negotiators) - Public Comment

Dear Sub-committee Members,

Please be advised that the current CVMVCD representatives appointed by the CVMVCD General Manager (Jeremy Wittie). Have shown that their maybe potential conflicts due to prior character dispositions related to questionable actions of each of the CVMVCD appointed labor Negotiators related to CVMVCD work performances.

CVMVCD legal counsel (Lena Wade) has been activity Involved in the use of correspondences to possibly cause confusion and or to Intimidate a Resident of the City of Rancho Mirage (Cease and desist letter) on yet to be described details by the CVMVCD administration or its legal counsel? Plus several directed actions to limit the Public's participation in open CVMVCD Public meetings and the rejection for CVMVCD Public Records that were requested from the Public. False reporting of posting letters by USPS on official business correspondences and possibly billing the Public (CVMVCD) for those alleged actions.

CVMVCD Human Resources department Manager (Anita Jones) had placed the CVMVCD at risk of Investigation due to the acceptance of Gifts for her direct contact and negotiations for access to a vendor. Plus the misdirection of facts towards district Investigations and the poor performance related towards employment healthcare selections (Not performed in a timely manner).

CVMVCD Finance Department Manager (David l'Anson) had yet to respond to several Inquires of a large financial sum that was clearly misinterpreted on a Monthly Operations department chemical cost and use report. His past position as Human Resources department temporally appointee. Where Information was NOT shared concerning accurate information/correct time of day and other aspects of a employment matter (ethical and Integrity makeup was abanded) in what appears to be a potential attempt to persevere the staus-quote of the CVMVCD operations. The actions of CVMVCD Administrator's can be compared to the smear campaign that was wrongful committed on General Flynn from our Nations enforcement/Investigation agency to harm that Great America for performing his dutys as a professional.

Please consider subcontracting external companies (unrelated and unknown to the CVMVCD) for the Sole purpose to remove workplace alliance's and all biased CVMVCD employees from performing an unfair and what appears to be a mid-managed operation (In-House promoted supervisors) control over a subpar administrative status quo and very poor performing self enriching/grossly over compensated General Manager and his entrenched administrative staff that continues to place the Health and safety of every Coachella Valley Resident/Guest and Animal at Increased risk of harm related to Vectors (Mosquitoes) from their ineffective methods and ever Increasing poor work performance.

Sincerely,

Brad Anderson | Rancho Mirage, CA. | 760.409.9434 (Cell)

Coachella Valley Mosquito and Vector Control District (CVMVCD)  
43420 Trader Pl.  
Indio, CA. 92201  
(888) 343-9399  
Attn: Clerk of the Board (Graciela Morales)

Re: Written letter (email) to be "READ ALOUD" and entered in to the Public record for the Executive Committee Meeting on the date of May 01, 2020 (12:PM) - Item: 4-A in regards to Item: 6 (Review/discussion of Draft "Legislative Advocacy Policy")

Dear Sub-committee Members,

Please allow the many private organizations that already perform lobbying activities for the CVMVCD to earn the Public funds that are unnecessarily wasted (not known to the general public) in the event to support private companies like those. Please remember that companies like (MVCAC and CSDA) that the CVMVCD employs and users Public funds to support and be Member's of those organizations - they already performs services that are outlined in this proposed CVMVCD policy. Please be advised - that organizations such as MVCAC and CSDA that are funded from CVMVCD Public Funds are not accessible to the general public.

Terms of concern that were noticed in the CVMVCD drafted Legislative Advocacy Policy are:

- 1) "tailored to the specific needs and culture of the district" - please outline the true meaning of how the term: culture of the district is defined?
- 2) "oppose additional public meetings and records requirements" - why would the CVMVCD wish to avoid the Public?
- 3) "staff is authorized to take a position without board approval" - Only in a state of Emergency would matters be possibly rushed, but the options for a Special meeting may be available. There is NO need for a possible Political charged General Manager (Mr. Jeremy Wittie) to act with the authority of a community supported special district without the CVMVCD Board of Trustees knowledge, such actions would be unnecessary and unwarranted.

Please stop wasting the Publics resources with Items that are already Contracted with other agencies. And allow the General Manager (Mr. Jeremy Wittie) to be concerned and focused with his local community job dutys.

Sincerely,

Brad Anderson | Rancho Mirage, CA. | 760.409.9434 (Cell)

Coachella Valley Mosquito and Vector Control District (CVMVCD)  
43420 Trader Pl.  
Indio, CA. 92201  
(888) 343-9399 - (760) 342-8287  
Attn: Clerk of the Board (Graciela Morales)

Re: Written letter (email) to be READ ALOUD and entered in to the Public record for the CVMVCD Executive Committee Meeting on the date of May 01, 2020 (12:PM) - Item: 4-B (Non-Agenda Public Comment)

Dear Sub-Committee Members,

Please be advised that in the apparent haste of the CVMVCD to limit my participation and possibly other Coachella Valley Residents Involvement in the CVMVCD Public business. It's been noticed that conflicting requirements have been outlined for the submittal of written statements addressed to the Board of the CVMVCD.

Please be aware that the rearranging of the CVMVCD Public meeting agenda Items with regards to Public Comments have been unpredictable due to the CVMVCD changing the agenda Items (Public comments) in a whimsical matter to possibly cause confusion among the very few (possibly only one Individual) that attends the CVMVCD Public meetings.

I was forced to request CVMVCD Public agenda reports (agenda Items) that were routinely made available to staff and Board of Trustees Members. Those record's (reports) was not available in a timely manner for the Public to review prior to the CVMVCD Board of Trustees Meeting date and still are not available to the general Public of the Coachella Valley.

Sincerely,

Brad Anderson | Rancho Mirage, CA. | 760.409.9434 (Cell)

**COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT**

**Finance Committee Meeting Via Zoom  
Minutes**

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**TIME:** 1:00 p.m. **DATE:** May 1, 2020

**LOCATION:** Via Zoom

**TRUSTEES PRESENT:**

Indian Wells	Clive Weightman
Rancho Mirage	Isaiah Hagerman
County at Large	Bito Larson
County at Large	Franz De Klotz (Alternate Committee Member)

**TRUSTEES ABSENT:** None

**STAFF PRESENT:**

Jeremy Wittie, General Manager  
David l'Anson, Administrative Finance Manager  
Edward Prendez, Information Technology Manager  
Graciela Morales, Executive Assistant/Clerk of the Board

**MEMBERS OF THE PUBLIC PRESENT:**

Brad Anderson

**1. Call to Order:** *Treasurer Weightman called the meeting to order at 1:03 p.m.*

**2. Roll Call:** *Roll call indicated three (3) committee members out of three (3) were present. President De Klotz joined as an Alternate Committee Member.*

**3. Confirmation of Agenda:** *The Agenda was confirmed as presented.*

Ayes: Trustees Hagerman, Larson, and Weightman.

Noes: None.

Abstained: None.

Absent: None.

**4. Public Comments:** *One public comment received from Mr. Brad Anderson was read aloud. His public comment is attached for the record.*

**5. Items of General Consent:**

*Approval of Minutes from March 10, 2020 and April 14, 2020 Finance Committee Meetings. The minutes were approved as presented.*

Ayes: Trustees Hagerman, Larson, and Weightman.

Noes: None.

Abstained: None.

Absent: None.

**6. Discussion and/or Review:**

A. Budget Calendar

*The Budget Calendar was reviewed by the Committee and Staff reported the Budget process is presently on track per the schedule.*

B. Equipment Capital Reserves

*The Equipment Capital Reserves document was reviewed by the Committee. The Committee concurred on moving forward with Option B which calls for a contribution increase of 15% for FY2020-21 and per annum thereafter.*

**7. Old Business:**

A. Review and Discuss Draft FY2020-2021 Budget

*Treasurer Weightman started the discussion by sharing Secretary Walker's comment during the Executive Committee meeting (prior to this meeting) of considering the potential financial impacts due to the COVID pandemic when further reviewing the draft budget. The draft Budget was reviewed by the Committee and Staff. Discussions included the support on the recommended benefit assessment increase, the District's participation in the Teeter plan which allows for a steady revenue, review of the Reserve Study, and the Public Health Emergency Fund level. The Thermal Remediation Funding document was reviewed by the Committee. The Committee concurred on moving forward with Option B which calls for the lease rental fee to be left as is and a fund transfer allocation of \$35,000 with an increase of 3% per annum thereafter.*

**8. New Business**

*None.*

**9. Schedule Next Meeting:** *The next Finance Committee meeting was scheduled for Tuesday, May 12, 2020 at 3:30 p.m.*

**10. Trustee and/or Staff Comments/Future Agenda Items:**

*None.*

**11. Adjournment:** *The meeting was adjourned by Treasurer Weightman at 1:49 p.m.*

DRAFT

Coachella Valley Mosquito and Vector Control District (CVMVCD)  
43420 Trader Pl.  
Indio, CA. 92201  
(888) 343-9399  
Attn: Clerk of the Board (Graciela Morales)

Re: Written letter (email) to be "READ ALOUD" and entered in to the Public record for the CVMVCD Finance Committee Meeting scheduled for May 01, 2020 (1:PM) - Item: 4-A in regards to agenda Item: 7-A (Review/Discussions of Draft FY2020-2021 CVMVCD Budget)

Dear Sub-committee Members,

Please consider reviewing and cutting All expenses by up to 30% - Reduced and or eliminate the CVMVCD Benefit Assessment . Suspending all new employment positions and reduce administrative wages by 20%.

Please consider this recommendation and be ready for Vectors this year -

If diseases and high Mosquito numbers are allowed to enter the Coachella Valley this year it will be closely watched and compared to data from the CVMVCD "alleged" work in past year's.

Please perform your job dutys as a professionals (Administration/Trusstees)

Sincerely,

Brad Anderson | Rancho Mirage, CA. | 760.409.9434 (Cell)



**SECTION**

**8**



**ITEMS OF GENERAL CONSENT**

# COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

## Board of Trustees Meeting Minutes

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MEETING TIME: 6:00 p.m. March 10, 2020

LOCATION: 43420 Trader Place, Indio, CA 92201

### TRUSTEES PRESENT:

PRESIDENT: Franz De Klotz	County at Large
VICE PRESIDENT: Doug Hassett	La Quinta
SECRETARY: Doug Walker	Palm Desert
TREASURER: Clive Weightman	Indian Wells
Sergio Espericueta	Cathedral City
Bito Larson	County at Large
Gary Gardner	Desert Hot Springs
Ben Guitron	Indio
Dr. Doug Kunz	Palm Springs
Isaiah Hagerman	Rancho Mirage

### TRUSTEES ABSENT:

Philip Bautista Coachella

### STAFF AND COUNSEL PRESENT:

Jeremy Wittie, General Manager  
Lena Wade, Legal Counsel, SBEMP  
Anita Jones, Human Resources Manager  
David l'Anson, Administrative Finance Manager  
Edward Prendez, Information Technology Manager  
Roberta (Bobbye) Dieckmann, Interim Operations Manager  
Mike Martinez, Field Supervisor  
Oldembour Avalos, Field Supervisor  
Tammy Gordon, Public Information Officer  
Jonathan Leung, Vector Control Technician I  
Marisa Kelling, Vector Control Technician Trainee  
Ryan Gonzalez, Vector Control Technician I  
Graciela Morales, Executive Assistant/Clerk of the Board

- 1. Call to Order:** *President De Klotz called the meeting to order at 6:03 p.m.*
- 2. Pledge of Allegiance:** *Trustee Espericueta led the Pledge of Allegiance.*
- 3. Roll Call:** *Roll call indicated eight (10) Trustees out of eleven (11) were present.*

#### **4. Motion to Excuse Absences**

On motion from Trustee Hagerman, seconded by Trustee Guitron, and passed by unanimous vote, the Board of Trustees excused the absence of Trustee Bautista.

Ayes: President De Klotz, Trustees Espericueta, Gardner, Guitron, Hagerman, Hassett, Kunz, Larson, Walker and Weightman.

Noes: None.

Abstained: None.

Absent: Trustee Bautista.

#### **5. Confirmation of Agenda**

On motion from Trustee Hassett, seconded by Trustee Hagerman, and passed by unanimous vote, the Board of Trustees approved the Agenda as presented.

Ayes: President De Klotz, Trustees Espericueta, Gardner, Guitron, Hagerman, Hassett, Kunz, Larson, Walker and Weightman.

Noes: None.

Abstained: None.

Absent: Trustee Bautista.

#### **6. Public Comments:**

*Mr. Brad Anderson made public comments regarding the following Items on the agenda: Non Agenda Item; Item 9A- February 11 Board Meeting Minutes; 9B-Correspondence; 9C-Expenditures; 9F-AMCA; 11A-Closure and Opening of Bank Accounts; Closed Session Item 12B-Conference with Legal Counsel Regarding Threatened Litigation and Item 13-Future Agenda Items.*

#### **7. Presentations**

- A. *General Manager's Report – Jeremy Wittie shared information regarding COVID-19; the Cathedral City High School/Heal Academy visit; a reminder of FY 2020-21 Budget timeline; ad hoc Building Committee overview of project; CVAG, City of Indio, and CVMVCD MOU; and a brief outcome of the MVCAC Spring meeting and Legislative Day meetings.*
- B. *Vector-Borne Disease Report – Jennifer Henke, Laboratory Manager included comprehensive reports in the Board packet and, in Jennifer's absence, Jeremy made himself available for questions.*

## 8. Board Reports

### A. President's Report:

*President De Klotz stated the Executive Committee had met previously to review the Board meeting agenda and all had gone well. The Minutes of said meeting were included in the Board packet.*

### B. Finance Committee Oral Report:

*Treasurer Weightman reported the Finance Committee had met prior to the Board meeting and reviewed the check report, CalCard Expenditure Journal, and financials. He also reported the District has about four months left in the current budget and anticipates the District will be in a good position at the end June 2020.*

## 9. Items of General Consent (NOTE: Item 9 was originally listed as Item 8C in error)

The following items are routine in nature and may be approved by one blanket motion upon unanimous consent. Any member of the Board or the public may request an item be pulled from Items of General Consent for separate discussion.

- A. Minutes for February 11, 2020, Board Meeting
- B. Correspondence
- C. Approval of expenditures for February 12, 2020 to March 10, 2020 and Financial Reports
- D. Approval of Proclamation designating the week of April 19-25, 2020, as Mosquito Awareness Week – Tammy Gordon, Public Information Officer
- E. Informational Items:
  - District Travel
  - Board Business Log
  - National Pollutant Discharge Elimination System (NPDES) Annual Report – Jennifer A. Henke, M.S., Laboratory Manager
  - EPA Pesticide Environmental Stewardship Program (PESP) – Jennifer A. Henke, M.S., Laboratory Manager
  - California Environmental Quality Act (CEQA) Mitigated Negative Declaration Annual Compliance Report – Jennifer A. Henke, M.S., Laboratory Manager
  - Important Budget Meeting Dates, Finance Committee
  - Riverside Local Agency Formation Commission Eastern Area – Franz De Klotz, President of the Board

Staff Reports:

- Mosquito and Vector Control Association of California Spring and Legislative Day Meeting – Jeremy Wittie, M.S., General Manager
  - Vector Control Joint Powers Agency Annual Workshop – Clive Weightman, Treasurer and Jeremy Wittie, M.S., General Manager
  - Pacific Southwest Center of Excellence in Vector-Borne Diseases Annual Progress and Planning Meeting – Jennifer A. Henke, M.S., Laboratory Manager
  - Co-Innovating Solutions for Container Mosquito Control A WALs Summit – Jennifer A. Henke, M.S., Laboratory Manager
  - Quarterly Department Reports and Goals for Calendar Year 2020 – Department Managers
- F. Approval for one additional staff member to attend the American Mosquito Control Association (AMCA) Annual Conference in Portland, OR in an amount not to exceed \$2,000 from Fund 7600.01.500.027 – Professional Development Not Budgeted; Funds available – Roberta Dieckmann, Interim Operations Manager

President De Klotz announced Item 9F would be removed from being considered/approved under General Consent as the AMCA had cancelled the annual conference due to restrictions imposed by officials in connection with COVID-19.

On motion from Trustee Guitron, seconded by Trustee Hassett, and passed by the following votes, the Board of Trustees approved all Items of General Consent.

Ayes: President De Klotz, Trustees Gardner, Guitron, Hassett, Kunz, Larson, Walker and Weightman.

Noes: None.

Abstained: Hagerman and Espericueta.

Absent: Trustee Bautista.

**10. Old Business**

None.

**11. New Business**

A. Discussion and/or approval of Resolution 2020-03 and Resolution 2020-04 to close demand deposit accounts with First Foundation Bank and open demand deposit accounts with California Bank & Trust – David I' Anson, Administrative Finance Manager

Administrative Finance Manager, David I'Anson provided a summary of the reasons why it was decided to close existing demand deposit accounts and establish new accounts.

On motion from Trustee Hassett, seconded by Trustee Hagerman and passed by unanimous vote, the Board of Trustees approved Item 11.

Ayes: President De Klotz, Trustees, Espericueta, Gardner, Guitron, Hagerman, Hassett, Kunz, Larson, Walker, and Weightman.

Noes: None.

Abstained: None.

Absent: Trustee Bautista.

**12. Closed Session Public Comments:**

*Persons wishing to address the Board on closed session items are requested to do so at this time. When addressing the Board, please come to the podium and give your name and address for the record. In order to conduct a timely meeting, a three-minute time limit per person per item has been established.*

A. *Closed Session: Conference with Labor Negotiators pursuant to Government Code Section 54957.6*

*Agency Designated Representatives: Lena D. Wade, Anita Jones and David I' Anson.  
Employee Organizations: California School Employees Association and Teamsters Local 911.*

B. *Closed Session: Conference with legal counsel regarding threatened litigation pursuant to Government Code section 54956.9(d)(1)(3) and/or (4).*

*Upon returning from Closed Session, President De Klotz announced there was no reportable action.*

**13. Trustee Comments, Requests for Future Agendas Items, Travel, and/ or Staff Actions**

Trustee Walker shared a letter with everyone in attendance from former Trustee Laflin regarding his service to the District and long term on the Board. Trustee Walker also shared the song "Rosita Mosquita". Trustee Hagerman commented he had seen the District's Date Festival booth and thought the District had done an excellent job.

**14. Adjournment** – *President De Klotz adjourned at 7:52 p.m.*

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Franz De Klotz  
President

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Doug Walker  
Secretary

DRAFT

**Coachella Valley Mosquito and Vector Control District**  
**43420 Trader Place | Indio, CA 92201**  
**Phone (760) 342-8287 | [www.cvmosquito.org](http://www.cvmosquito.org)**



**Minutes of the**  
**Special Meeting of the Board of Trustees on**  
**Monday, March 23, 2020**  
**11:00 a.m.**

**CALL AND NOTICE OF A SPECIAL MEETING**  
**PURSUANT TO GOVERNMENT CODE SECTION 54956**

In the interest of maintaining appropriate social distancing and to comply with recent orders issued by Governor Newsom, the Board encourages the public to participate by calling **1-669-900-6833, Meeting ID: 129 316 688**; or by emailing your public comment to the Clerk by 10:30 a.m. on March 23, 2020 at [gmorales@cvmvcd.org](mailto:gmorales@cvmvcd.org) if you want to provide comments on the agenda item or subject matter within the jurisdiction of the Board.

**AGENDA**

Assistance for those with disabilities: If you have a disability and need accommodation to participate in the meeting, please call the Clerk of the Board at (760) 342-8287 for assistance so the necessary arrangements can be made. Notification 48 hours prior to the meeting will enable staff to make reasonable arrangements to assure accessibility to the meeting.

- 1. Call to Order** – Franz De Klotz, President

*The meeting was called to order at 11:05 a.m. by President Franz De Klotz.*

- 2. Roll Call** – Graciela Morales, Clerk of the Board



Present:

President: Franz de Klotz	County at Large
Treasurer: Clive Weightman	Indian Wells
Sergio Espericueta	Cathedral City
Bito Larson	County at Large
Gary Gardner	Desert Hot Springs
Doug Kunz	Palm Springs
Doug Walker	Palm Desert

*(Trustee Isaiah Hagerman joined the meeting at 11:10 a.m. This was after roll call voting was taken by the Clerk of the Board)*

*Roll call indicated seven (7) out of eleven (11) Trustees were present.*

Staff and Legal Counsel:

Jeremy Wittie, General Manager  
Lena, D. Wade, General Counsel  
Edward Prendez, Information Technology Manager  
Jennifer Henke, Laboratory Manager  
Kim Hung, Vector Ecologist  
Roberta Dieckmann, Operations Manager  
Graciela Morales, Executive Assistant/Clerk of the Board

**3. Public Comments**

**Please see above regarding telephone and email participation.** Those wishing to address the Board should complete a Public Comment Card and provide it to the Clerk of the Board.

A. **PUBLIC Comments — AGENDA ITEMS:** Persons wishing to address the Board on agenda items are requested to do so at this time. When addressing the Board, please come to the podium and give your name and address for the record. In order to conduct a timely meeting, a three-minute time limit per person per item has been established.

B. **PUBLIC Comments — NON-AGENDA ITEMS:** Persons wishing to address the Board on items not appearing on the agenda are requested to do so at this time. When addressing the Board, please come to the podium and give your name and address for the record. In order to conduct a timely meeting, a three-minute time limit per person has been established. California Government Code Section 54950 prohibits the Board from taking action on a specific item until it appears on the agenda.

C. **PUBLIC Comments — CLOSED SESSION ITEMS:** Persons wishing to address the Board on closed session items are requested to do so at this time. When addressing the Board, please come to the podium and give your name and address for the record. In

order to conduct a timely meeting, a three-minute time limit per person has been established.

*President De Klotz stated Mr. Brad Anderson had submitted a letter prior to the meeting. Graciela Morales, Clerk of the Board distributed the letter to all Trustees via email prior to the meeting.*

**4. Review and/or approve Resolution No. 2020-05 proclaiming and ratifying the existence of a local emergency – Franz De Klotz, President of the Board of Trustees**

*President De Klotz read out loud a summary of Item 4 on the agenda. Lena, D. Wade, General Counsel stated that by adopting this resolution the Board would be enabling Jeremy Wittie to make reasonable and necessary decisions with respect to the operations of the District and that he would be doing so with consultation of the Board President, Mr. De Klotz, and with her as General Counsel to the District. Lena also said when the Board reconvenes again they would present such items to the Board for ratification. Lena stated that one action taken thus far was to close the front offices to the public in response to Governor Newsom's Shelter in Place Executive Order. Another item recently drafted was a telecommuting agreement for those employees who can telecommute. Furthermore, Lena advised regular updates would be provided to the Board on ongoing operations.*

On motion from Trustee Walker, seconded by Trustee Kunz, and passed by the following roll call vote, the Board of Trustees approved Resolution 2020-05 proclaiming and ratifying the existence of a local emergency due to the worldwide spread of COVID-19.

Ayes: President De Klotz, Trustees Espericueta, Gardner, Kunz, Larson, Walker, and Weightman.

Noes: None.

Abstained: None.

Absent: Trustees Bautista, Guitron, Hagerman, and Hassett.

**5. Closed Session – Consultation with Legal Counsel—Threat to Public Services or Facilities pursuant to Government Code section 54957.**

*The Board did not go into closed session.*

**6. Adjournment**

*President De Klotz adjourned the remote meeting at 11:13 a.m.*

Coachella Valley Mosquito and Vector Control District (CVMVCD)  
43420 Trader Pl.  
Indio, CA. 92201  
(888) 343-9399 - [www.cvmvcd.org](http://www.cvmvcd.org)  
Attn: Clerk of the Board (Graciela Morales)

Re: Written letter to be entered in to the Public record for the CVMVCD Public meeting (see added attachment) for March 23, 2020 / Public Comments

Dear CVMVCD Clerk of the Board,

As you are aware - I've contacted the CVMVCD by telephone this Morning (09:32AM) and was forced to leave a voice message due to the fact that No person answered the telephone to this State of California Governmental agency.

Please enter the added attachment (written statement) into the Public record for the CVMVCD Special Board of Trustees Meeting held on the date of March 23, 2020 (11:AM).

Also, please submit the attached letter to each CVMVCD "appointed" Board members for their review - prior to their voting on Item: 4 of the agenda.

Please be advised that the current CVMVCD agenda for today's meeting - has a telephone number to call for Public's participation. That new and unheard-of method (unapproved by Council/and not known to the Public) to conduct public testimony - has easily noticeable problems and major concerns. Please be advised that your organization has the ability to contact me by telephone without using a third party system that requires local Residents to call a long distance telephone number and run a risk of telephone numbers being obtained and missused.

And the Increased cost to the Public speaker for participating in a local Public governmental agency meeting. Also any testimony given would be out of context - being that the speaker would have No knowledge of the meetings dialog and tone.

Please contact me by telephone to submit my Public comments on Items of the agenda for the CVMVCD public meeting held on the date of March 23, 2020 at the schedule start time of 11:AM.

Contact Number:

(760)409-9434 - Mr. Brad Anderson located in the City of Rancho Mirage As you should be aware (Special Meeting) I will only be commending on agenda Item: 3-B referring to agenda Item: 4. I look forward to hearing from you shortly after 11:AM today by telephone.

Please be advised that this email and attachment will be shared with other party's. As will the meeting agendas and past encounters that Illustrate the CVMVCD attempts to limit free speech of Coachella Valley Residents and their participation in the people's business (CVMVCD administrative/operations).

Thank you,

Brad Anderson | Rancho Mirage, CA. | 760.409.9434 (Cell)

March 23, 2020

Coachella Valley Mosquito and Vector Control District (CVMVCD)

43420 Trader Pl.

Indio, CA. 92201

(760) 342-8287 or (888) 343-9399 - [www.cvmvcd.org](http://www.cvmvcd.org)

Attn: Clerk of the Board /Board of Trustees

Re: Written letter to be entered in to the Public record for the CVMVCD special Board of Trustees Meeting scheduled for the date of March 23, 2020 at the time of 11:AM - Item: 3-B, addressing Item: 4 (Review and/or approver of Resolution No. 2020-05 – proclaiming a “Local Emergency” in response to a reported “Worldwide” transmission of a Virus.

Dear reappointed and newly appointed (Publicly Unelected) CVMVCD Trustees Members,

As you are aware, the CVMVCD organization has been limiting the Public’s participation and ability to submit testimony during CVMVCD Public event’s. The CVMVCD special meeting agenda references California Governor’s “recent orders” and doesn’t detail said orders as it may apply to the CVMVCD meeting. The CVMVCD agenda lists a - out of area telephone number and a Identifier number to be used to possibly participate in the March 23, 2020 Board of Trustees Meeting. The out of area (long distance – third party) telephone number would cause unnecessary financial expense and would increase the likelihood of being victimize by unauthorized third party company(s) associated through the CVMVCD (this has happened before with other CVMVCD sponsored companies)

Please allow all CVMVCD equipment and Health related safety Items to be Issued to Valley organizations that have a required need. The above mentioned proposed Resolution to declare a “local Emergency” appears to illustrate the CVMVCD management and its Cities and County appointed Trustees ability to attempt to potentially gain access to finances through means that would already exist with CVMVCD normal day-to-day operations. The actions of listing global Virus infection numbers in the proposed Resolution over local (Riverside County) or even the State of California Infection numbers shows the intent to cause incorrect misinformation patenting to a “Local Emergency”. Being affected negatively by the actions of the current CVMVCD General Manager and certain staff members, have show the abilities that are in place to possibly cause false and misleading statements and actions to cause distress and place Residents of the Coachella Valley at Increased risks of damage of their Health and safety.

Please limit the current CVMVCD General Manager abilities to further dictate management decisions that have negativity affected this Valley for a number of year with Increased Mosquitoes and known diseases. If a local Emergency is deemed to exist, its declared termination should be proclaimed by the Riverside Board of Supervisors only. And not by the CVMVCD executive board of a “few” non-elected appointed Trustees. Please open your Governmental lobby to Coachella Valley Residents, and confirm if the CVMVCD is served by “Trustees” or “Directors” as both terms were used in Resolution No. 2020-05.

Brad Anderson | Rancho Mirage, CA.

March 13, 2020

Coachella Valley Mosquito and Vector Control District (CVMVCD)

43420 Trader Pl.

Indio, CA. 92201

888.343.9399 / [www.cvmvcd.org](http://www.cvmvcd.org)

Attn: CVMVCD Board of Trustees /Clerk of the Board

Re: Written letter to be entered in to the Public record and submitted for the CVMVCD Board of Trustees for review.

Dear Coachella Valley Mosquito and Vector Control District Board of Trustees,

Please consider reviewing all information that would be available to any reasonable person that would be involved in acts to damage the Public's right to question and observe how the Public's business is conducted and how the Public's participation has been limited by your organization (CVMVCD) that was originally created by the Public to serve the Residents of the Coachella Valley.

All acts of aggression and/or retaliation will be meant with the defense of the Public good and will be dealt with accordingly. As you are aware, during the March 10, 2020 CVMVCD Board of Trustees Meeting - Trustees from the Cities of La Quinta (Mr. Hassett) and Palm Desert (Mr. Walker) were allowed to voice their directed comments about the Public speaker during and at the conclusion of the time allowed to the only Valley Resident that voiced Public testimony by signing the required speakers card(s). The above mentioned CVMVCD Trustees made statements that are not supported by the Public record and other spoken statements that were combative and incorrectly reported the intentions and motives of the Public speaker (Resident). And as you are aware, due to the CVMVCD potential mission to limit Public participation in its meetings there was an unnecessary and unwarranted waste of resources and people's time to address issues that were later removed from that meeting's agenda. Also the CVMVCD Board President (Mr. Franz De Klotz) allowed a unannounced CVMVCD staff member (Field Supervisor Roberta "Bobbye" Dieckmann) to stand directly behind my seat in the Council Chambers (and not approach the speaker microphone) and make statements that were not referring to the Board Item of discussion (Closed sessions topics), Please consider the Public good /Transparency.

Sincerely,

Brad Anderson | Rancho Mirage, CA. | 760.409.9434 (Cell)

**Coachella Valley Mosquito and Vector Control District**

Checks Issued for the Period of:

March 6 - March 10, 2020

Check No	Payable To	Description	Check Amount	Total Amount
	Payroll Disbursement	March 6 2020	178,908.60	
				<b>178,908.60</b>
<b>Pre-Approved Expenditures Utilities/Benefits:</b>				
42869	CalPERS - Retirement Acct	Retirement Contributions 02/16 - 02/29/2020	25,520.04	
42870	Frontier Communications-Internet	Internet Service 2/25 - 3/24/20	456.84	
42871	Frontier Communications-Toll/POTS	POTS/Landline Services 2/28 - 3/27/20	157.96	
42872	ICMA Retirement Trust	457 Plan Contributions 2/29/20	9,383.99	
42873	SoCalGas	Gas Services 1/27 - 2/26/20	612.28	
42874	Standard Insurance Company	LTC Premiums 3/1 - 3/31/20	2,996.25	
42875	Verizon Connect	Telematics December 2019	1,102.00	
				<b>40,229.36</b>
<b>Pre-Approved Expenditures less than \$10,000.00:</b>				
42876	Advance Imaging Systems	Contract Services	324.93	
42877	Airgas Safety Inc.	Dry Ice	259.73	
42878	CarQuest Auto Parts	Vehicle Parts & Supplies	545.73	
42879	Cintas Corporation #3	Uniform Expense	1,595.36	
42880	Consolidated Electrical Distributors, Inc.	Repair & Maintenance	27.00	
42881	C&R Wellness Works	Employee Assistance Services	283.50	
42882	Desert Electric Supply	Repair & Maintenance	88.74	
42883	Eisenhower Occupational Health Serv	Physician Fees	55.00	
42884	Elm's Equipment Rental	Physical Control	319.62	
42885	Employee Relations Inc.	Recruitment/Advertising	282.40	
42886	Equipment Direct, Inc.	Safety Expense	96.89	
42887	Fedak & Brown, LLP	Professional Fees	200.00	
42888	Indio Emergency Medical Group	Physician Fees	360.00	
42889	Jernigan's Sporting Goods, Inc.	Safety Expense	604.53	
42890	MAAS Companies, Inc.	Professional Fees	825.00	
42891	Marlin Business Bank	Contract Services	1,115.16	
42892	Antonio Molina	Tuition Reimbursement	1,003.37	
42893	NAPA Auto & Truck Parts	Specialty Vehicle Parts & Supplies	339.97	
42894	Pitney Bowes	Contract Services	305.43	
42895	Edward Prendez	MVCAC Annual Conference	195.24	
42897	Tops N Barricades, Inc.	Repair & Maintenance	109.40	
42898	U.S. Foods	Physical Control	459.90	
42899	Waterlogic Americas LLC	Employee Support	213.15	
42900	Waxie Sanitary Supply	Operating Supplies	1,507.01	
<b>Cash - First Foundation Bank Checking</b>				<b>11,117.06</b>
<b>Cash - First Foundation Bank Checking</b>				
42896	Slovak Baron Empey Murphey & Pinkney LLP	Attorney Fees	13,444.70	
<b>Cash - First Foundation Bank Check Run Total to be Approved</b>				<b>13,444.70</b>
<b>Total Expenditures: March 6 - March 10, 2020</b>				<b>243,699.72</b>

Franz De Klotz, President

Clive Weightman, Treasurer

**Coachella Valley Mosquito and Vector Control District**

Checks Issued for the Period of:

March 11 - April 13, 2020

**Pre-Approved Expenditures Utilities/Benefits:**

42902	CalPERS Healthcare Acct	Healthcare Retired & Active Personnel 4/2020	75,912.19
42903	CalPERS - Retirement Acct	State Retirement 3/1/2020 - 3/28/2020	51,147.65
42904	ICMA Retirement Trust	457 Plan Contributions 3/14 & 3/28/2020	18,109.57
42905	Imperial Irrigation District	Electric Services 2/5-3/9/2020	1,338.60
42906	Imperial Irrigation Dist-Lab Acct	Electric Services 2/5-3/9/2020	3,995.30
42907	Petty Cash Chkng Account Custodian	Petty Cash Checking Replenishment	350.76
42908	Principal Life Insurance Co.	Dental/Life Insurance 4/2020	10,004.11
42909	SoCalGas	Gas Utility Services 2/26 - 3/26/2020	453.17
42910	Standard Insurance Company	LTD Premiums 4/1 - 4/30/2020	2,996.25
42911	Verizon Wireless	Wireless Services 2/8 - 3/7/2020	2,043.94
42912	Vision Service Plan (CA)	Vision Care 4/2020	857.56
42942	Petty Cash Custodian Diane Greeman	Petty Cash Replenishment	420.67

**167,629.77**

**Pre-Approved Expenditures less than \$10,000.00:**

42913	Adapco, Inc.	Capital Outlay	5,471.29
42914	Advance Imaging Systems	Contract Services	121.65
42915	Airgas Safety Inc.	Dry Ice	794.22
42916	Burrtec Waste Industries	Landfill Disposal Services	68.94
42917	CarQuest Auto Parts	Vehicle Parts & Supplies	38.84
42918	Cintas Corporation #3	Uniform Expense	804.73
42919	CleanExcel	Janitorial Services	3,811.00
42920	CSI Ceja Security International	Contract Services	1,950.00
42921	Elm's Equipment Rental	Physical Control	348.92
42922	Equipment Direct, Inc.	Safety Supplies	1,569.48
42923	Fedak & Brown, LLP	Professional Fees	2,045.00
42924	Juan Carlos Herrera	Staff Training	171.00
42925	Kim Hung-Lyu	MVCAC Committee Assignments	16.00
42926	Indio Emergency Medical Group	Physician Fees	305.00
42927	Jernigan's Sporting Goods, Inc.	Safety Expense	475.36
42928	Kwik Kleen Of The Desert	Offsite Vehicle Maintenance & Repair	309.00
42929	Marlin Business Bank	Contract Services	567.06
42931	Pipette.com/Accutech Laboratories	Maintenance and Calibration	473.95
42932	Praxair Distribution, Inc.	Cylinder Rentals	47.99
42934	SoCo Group Inc., The	Motor, Fuel & Oil	5,376.26
42935	Spark Creative Design	Professional fees	425.00
42936	TCI Thermal Combustion Innovators, Inc.	Operating Supplies	511.27
42937	Vector-Borne Disease Account	Professional Development	330.00
42938	Verizon Connect	IT Communications	1,102.00
42939	Waterlogic Americas LLC	Employee Support	213.15
42940	Waxie Sanitary Supply	Household Supplies	231.67
42941	Clive Weightman	Trustee Travel	223.20

**Cash - First Foundation Bank Checking**

**27,801.98**

**Cash - First Foundation Bank Checking**

42901	US Bank	CalCard 3/23/2020	98,877.81
42930	Onyx Paving Company, Inc.	Thermal Facility Remediation Fund	25,464.07
42933	Salton Sea Air Service	Aerial Application	22,756.46

**Cash - First Foundation Bank Check Run Total to be Approved**

**147,098.34**

**Total Expenditures: March 11 - April 13, 2020**

**342,530.09**

\_\_\_\_\_  
Franz De Klotz, President

\_\_\_\_\_  
Clive Weightman, Treasurer

**Coachella Valley Mosquito and Vector Control District**

Checks Issued for the Period of:

April 14 - May 7, 2020

Check No	Payable To	Description	Check Amount	Total Amount
	Payroll Disbursement	April 17, 2020	183,680.70	
	Payroll Disbursement	May 1, 2020	182,787.11	
				<b>366,467.81</b>
<b>Pre-Approved Expenditures Utilities/Benefits:</b>				
42944	CalPERS - Retirement Acct	State Retirement 3/29 - 4/11/2020	26,075.93	
42945	Frontier Communications-Internet	Internet Service 3/25 - 4/24/2020	456.84	
42946	Frontier Communications-Toll/POTS	POTS/Landline Services 3/28 - 4/27/2020	157.81	
42947	ICMA Retirement Trust	457 Plan Contributions 4/11/2020	8,820.03	
42948	Imperial Irrigation District	District Electric Services 3/10 - 4/6/2020	976.22	
42949	Imperial Irrigation Dist-Lab Acct	Lab Electric Services 3/10 - 6/6/2020	3,334.58	
42950	Principal Life Insurance Co.	Dental/Life Insurance 5/2020	10,004.11	
42951	Standard Insurance Company	LTD Premium 5/2020	2,996.25	
42952	Verizon Connect	Telematics Feb 2020	1,102.00	
42953	Verizon Wireless	District Cell Phone 3/8 - 4/7/2020	2,175.59	
42954	Vision Service Plan (CA)	Vision Care Plan 5/2020	857.56	
42955	CalPERS Healthcare Acct	Healthcare Retired/Active 5/2020	75,912.19	
42989	SoCalGas	Gas Services 3/26 - 4/24/2020	379.20	
				<b>133,248.31</b>
<b>Pre-Approved Expenditures less than \$10,000.00:</b>				
42956	Adapco, Inc.	Equipment Parts & Supplies	119.13	
42957	Advance Imaging Systems	Contract Services	912.07	
42958	Airgas Safety Inc.	Dry Ice	1,090.37	
42959	Burrtec Waste Industries	Landfill Disposal Services	13.53	
42960	CarQuest Auto Parts	Vehicle Parts & Supplies	392.83	
42961	Cintas Corporation #3	Uniform Expense	4,902.99	
42962	CleanExcel	Janitorial Services	5,211.00	
42963	C&R Wellness Works	Employee Support	274.50	
42964	Damon's Carpet Cleaning Supplies	Equipment Rental	35.00	
42965	Desert Alarm, Inc.	Buglar & Fire Alarm Monitoring Services	1,019.70	
42966	Elm's Equipment Rental	Equipment Rental	223.72	
42967	Employee Relations Inc.	Recruitment & Adverstising	539.35	
42968	Equipment Direct, Inc.	Saftey Supplies	1,338.55	
42969	Grainger	Capital Replacement - Fleet	223.97	
42970	Indio Emergency Medical Group	Physician Fees	270.00	
42971	Jernigan's Sporting Goods, Inc.	Saftey Supplies	350.49	
42972	Marlin Business Bank	Contract Services	1,115.16	
42973	Antonio Molina	Tuition Reimbursement	1,044.38	
42974	Crystal Moreno	Tuition Reimbursement	2,010.00	
42975	NAPA Auto & Truck Parts	Vehicle Parts & Supplies	286.23	
42976	Onyx Paving Company, Inc.	Facility Replacement Fund	5,550.00	
42977	Pentair Aquatic Eco-Systems, Inc.	Equipment Parts & Supplies	100.05	
42978	Pitney Bowes	Contract Services	500.00	
42979	Praxair Distribution, Inc.	Cylinder Rentals	51.14	
42980	The Regents of U.C. - Cashiers Office	Surveillance Internal PCR	441.00	
42982	Slovak Baron Empey Murphey & Pinkney LLP	Attorney Fees	8,111.70	
42983	SoCo Group Inc., The	Motor, Fuel & Oil	3,093.93	
42984	Southwest Plumbing	Thermal Special Project	115.00	
42985	TCI Thermal Combustion Innovators, Inc.	Operating Supplies	445.07	
42986	Waterlogic Americas LLC	Employee Support	213.15	
42987	Waxie Sanitary Supply	Household Supplies	388.79	
42988	CalPERS - Retirement Acct	Professional Fees	200.00	
				<b>40,582.80</b>
<b>Cash - First Foundation Bank Checking</b>				
<b>Cash - First Foundation Bank Checking</b>				
42943	Winner Chevrolet	Capital Equipment Replacement	114,707.31	
42981	Salton Sea Air Service	Aerial Application	11,957.50	
42990	U.S. Bank	CalCard 04/22/2020	15,365.75	
				<b>142,030.56</b>
<b>Cash - First Foundation Bank Check Run Total to be Approved</b>				<b>142,030.56</b>
<b>Total Expenditures: April 14 - May 7, 2020</b>				<b>682,329.48</b>

Franz De Klotz, President

Clive Weightman, Treasurer

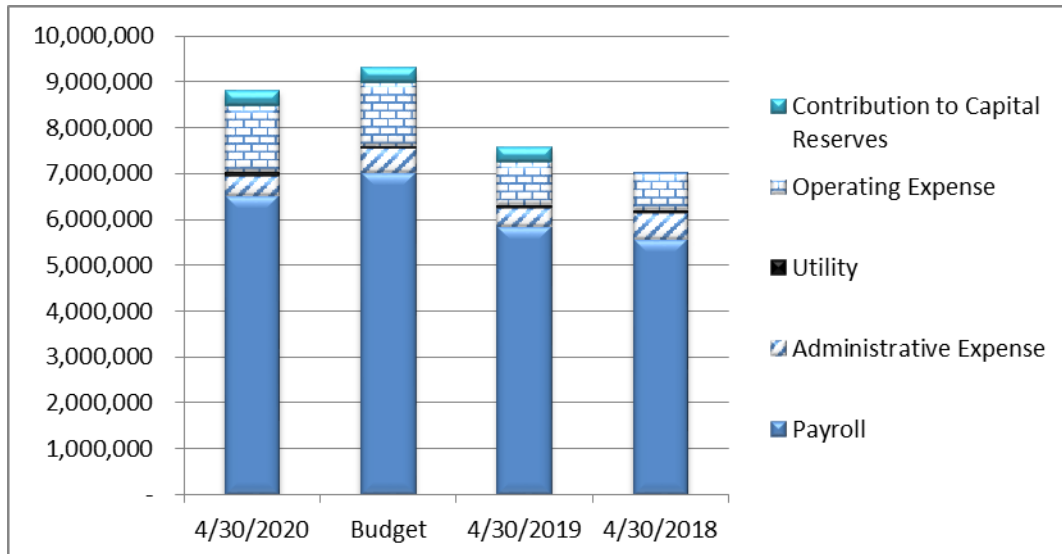


## FINANCE

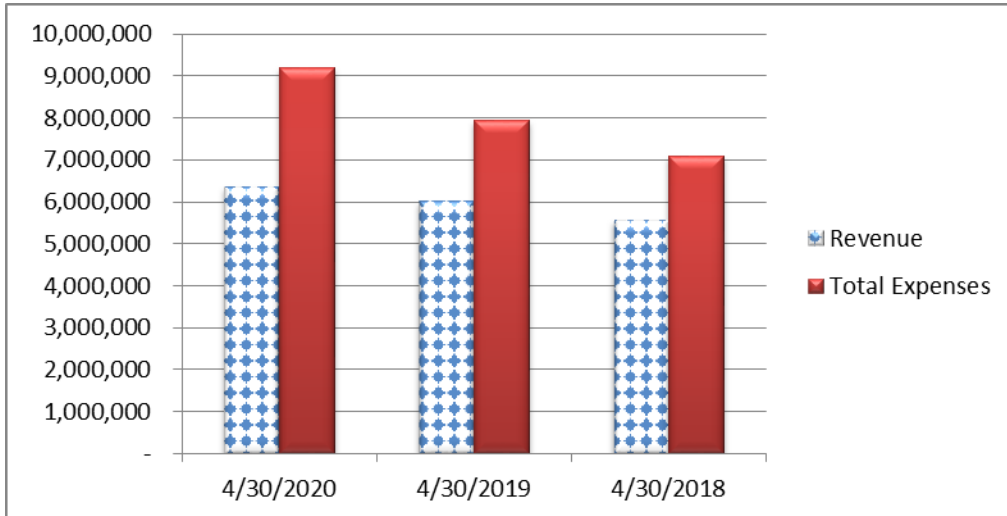
The financial reports show the balance sheet, receipts, and the revenue and expenditure reports for the month ending April 30, 2020. The revenue and expenditure report shows that the operating budget expenditure for July 1, 2019 to April 30, 2020 is \$9,196,986; total revenue is \$6,367,571 resulting in excess revenue over (under) expenditure for the year to April 30, 2020 of (\$2,829,415).

### THREE YEAR FINANCIALS

	Actual	Budget	Actual	Actual
	4/30/2020		4/30/2019	4/30/2018
<b>Revenue</b>	<b>6,367,571</b>	<b>6,222,140</b>	<b>6,040,154</b>	<b>5,573,343</b>
Expenses				
Payroll	6,514,123	7,009,082	5,847,326	5,575,620
Administrative Expense	538,319	652,385	528,390	467,989
Utility	118,503	96,667	87,346	78,849
Operating Expense	1,606,418	1,657,367	1,084,571	972,878
Contribution to Capital Reserves	419,623	419,622	402,178	
<b>Total Expenses</b>	<b>9,196,986</b>	<b>9,835,123</b>	<b>7,949,811</b>	<b>7,095,335</b>
<b>Profit (Loss)</b>	<b>(2,829,415)</b>	<b>(3,612,983)</b>	<b>(1,909,657)</b>	<b>(1,521,992)</b>



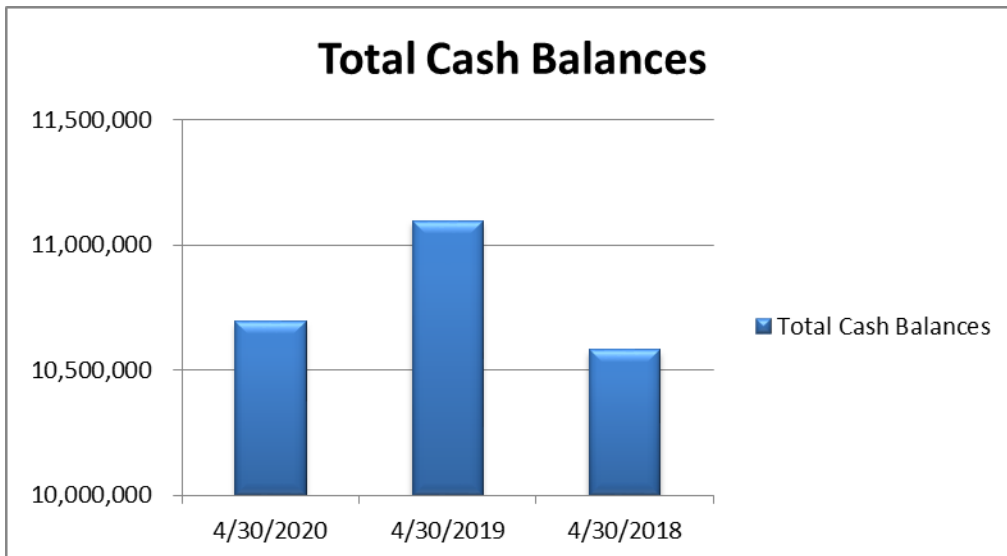
**Figure 1 - Three Year Expenditure**



**Figure 2 - Three Year Revenue & Expenditure**

**THREE YEAR CASH BALANCE**

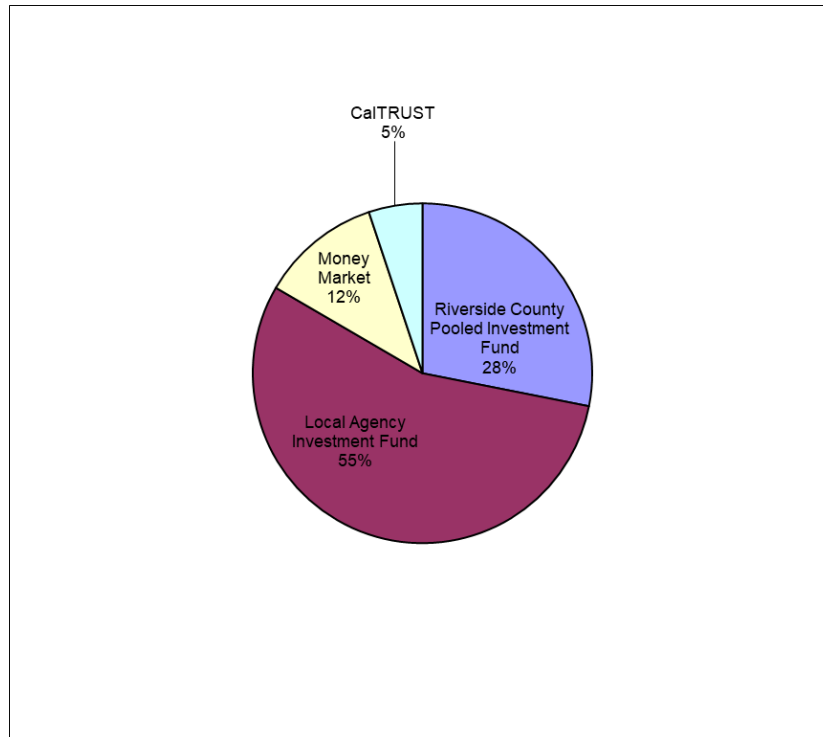
Cash Balances	4/30/2020	4/30/2019	4/30/2018
Investment Balance	10,000,518	11,139,273	10,480,275
Checking Accounting	83,691	(107,151)	11,967
Payroll Account	609,082	62,275	88,186
Petty Cash	2,000	2,000	2,000
<b>Total Cash Balances</b>	<b>10,695,291</b>	<b>11,096,397</b>	<b>10,582,428</b>



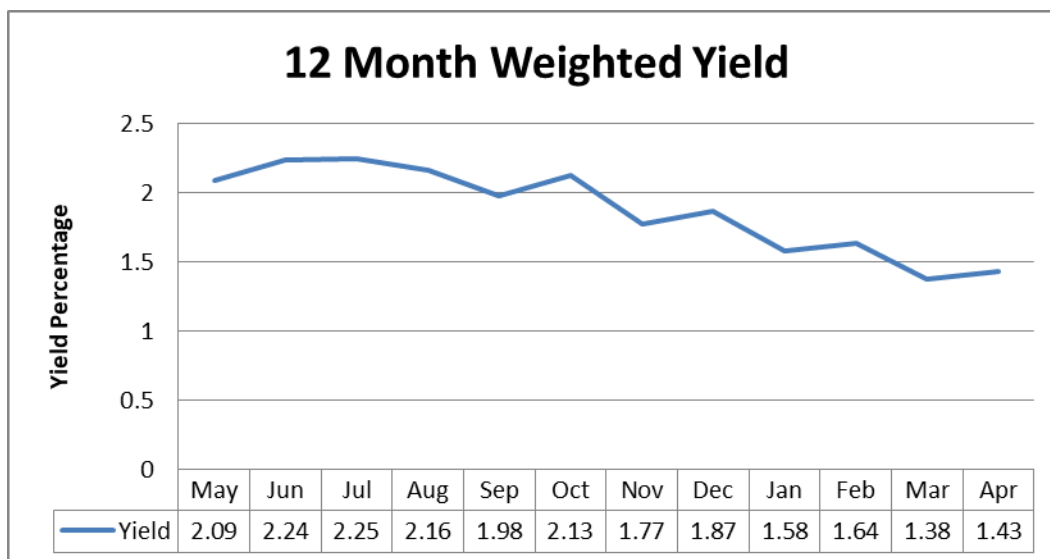
**Figure 3 - Cash Balances**

**DISTRICT INVESTMENT PORTFOLIO 4/30/2020**

The District’s investment fund balance for the period ending April 30, 2020 is \$10,000,518. The portfolio composition is shown in the pie chart. Local Agency Investment Fund (LAIF) accounts for 55% of the District’s investments; the Riverside County Pooled Investment Fund is 28% of the total. The LAIF yield for the end of February was 1.63% and the Riverside County Pooled Investment Fund was 1.46%; this gives an overall weighted yield for District investments of 1.43%.



**Figure 4 - Investment Portfolio 4-30-20**



**Figure 5 - District Investments Weighted Yield**

Coachella Valley Mosquito and Vector Control District  
**FINANCES AT A GLANCE**  
**ALL FUNDS COMBINED**  
For the Month Ended April 30, 2020

	Beginning of the Month	Change During the Month	End of the Month
INVESTMENTS	10,729,174	(728,656)	10,000,518
CASH	510,089	184,684	694,773
INVESTMENTS & CASH	11,239,262	(543,972)	10,695,291
CURRENT ASSETS	1,225,706	(30,621)	1,195,085
FIXED ASSETS	10,624,757	-	10,624,757
OTHER ASSETS	4,969,170	-	4,969,170
TOTAL ASSETS	28,058,896	(574,593)	27,484,303
TOTAL LIABILITIES	5,446,437	(16,261)	5,430,176
TOTAL DISTRICT EQUITY	22,612,460	(558,332)	22,054,127
TOTAL LIABILITIES & EQUITY	28,058,896	(574,593)	27,484,303
RECEIPTS			
		\$ 417,125	
CASH DISBURSEMENTS			
Payroll	\$ 372,660		
General Admin	\$ 590,107		
Total Cash Disbursements		\$ (962,767)	
NON-CASH ENTRIES:			
Accrual Modifications -		\$ (28,952)	
Changes in A/P, A/R & Pre-paid insurance			
Change during Month - Excess of Cash over Receipts & Non-Cash Adjustments		\$ (574,593)	

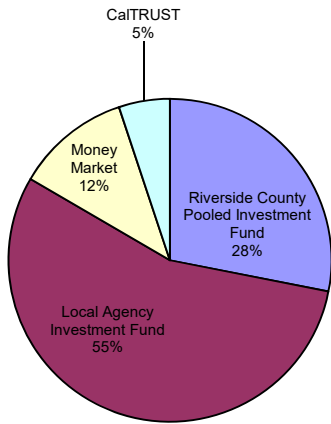
**CVMVCD**  
Cash Journal - deposits  
From 4/1/2020 Through 4/30/2020

Effective ...	Transaction Description	Deposits	Payee/Recipient Name
4/3/2020	April Receipts	271.28	
4/10/2020	April Receipts Refund	349.00	
4/14/2020	April Receipts Surplus Sale	4,550.00	Paymac Inc
4/14/2020	April Reciepts Benefit Assessment Direct Bill	79.80	
4/14/2020	April Reciets Benefit Assessment Direct Bill	6.74	
4/15/2020	April Receipts Benefit Assessment Direct Bill	62.46	
4/15/2020	April Receipts Interest	27,684.08	Local Agency Investment Fund
4/30/2020	April Receipts 10% Advance	383,753.38	Riverside County
4/30/2020	April Receipts Bank Interest	368.75	First Foundation Bank
Report Total		417,125.49	

**COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT  
INVESTMENT FUND BALANCES AS OF APRIL 30, 2020**

INSTITUTION	IDENTIFICATION	Issue Date	Maturity Date	YIELD	General Fund	Thermal Capital Fund	Capital Equipment Replacement Fund	Capital Facility Replacement Fund	BALANCE
<b>Investment Fund Balance</b>					6,653,406	40,301	1,413,407	1,893,403	\$ 10,000,518
LAIF	Common Investments			1.63%	3,678,388	22,281	781,413	1,046,783	\$ 5,528,865
Riverside County	Funds 51105 & 51115			1.46%	1,870,092	11,328	397,270	532,184	\$ 2,810,874
CalTRUST	Medium Term Fund			1.71%	340,508	2,063	72,335	96,901	\$ 511,806
First Foundation	Market Rate			0.25%	764,412	4,630	162,387	217,534	\$ 1,148,963
<b>Total Investments</b>					6,653,400	40,301	1,413,405	1,893,401	<b>\$ 10,000,508</b>

**PORTFOLIO COMPOSITION AS OF APRIL 30, 2020  
WEIGHTED YIELD 1.46%**



In compliance with the California Code Section 53646; the Finance Administrator of the Coachella Valley Mosquito and Vector Control District hereby certifies that sufficient liquidity and anticipated revenue are available to meet the District's budgeted expenditure requirements for the next six months.

Investments in the report meet the requirements of the Coachella Valley Mosquito and Vector Control District's adopted investment policy

Respectfully submitted

\_\_\_\_\_

NOTED AND APPROVED

\_\_\_\_\_

CVMVCD  
Statement of Revenue and Expenditures  
April 30, 2020

	Annual Budget	YTD Budget	YTD Actual	YTD Budget Variance	Current Period Budget	Current Period Actual	Current Period Variance	Annual Budget Variance	Percent Annual Budget
<b>Revenues</b>									
4000 Property Tax - Current Secured	3,825,113	2,424,574	<b>2,524,822</b>	100,247	377,888	<b>383,753</b>	5,865	(1,300,292)	(34)%
4010 Property Tax - Curr. Supplmntl	45,034	21,151	<b>0</b>	(21,151)	0	<b>0</b>	0	(45,034)	(100)%
4020 Property Tax - Curr. Unsecured	170,237	161,531	<b>159,276</b>	(2,255)	0	<b>0</b>	0	(10,961)	(6)%
4030 Homeowners Tax Relief	42,209	21,106	<b>19,161</b>	(1,945)	0	<b>0</b>	0	(23,048)	(55)%
4070 Property Tax - Prior Supp.	27,704	0	<b>14,955</b>	14,955	0	<b>0</b>	0	(12,749)	(46)%
4080 Property Tax - Prior Unsecured	8,493	0	<b>0</b>	0	0	<b>0</b>	0	(8,493)	(100)%
4090 Redevelopment Pass-Thru	4,478,852	2,239,426	<b>2,283,925</b>	44,499	0	<b>0</b>	0	(2,194,927)	(49)%
4520 Interest Income - LAIF/CDs	200,000	150,000	<b>139,999</b>	(10,001)	0	<b>28,053</b>	28,053	(60,001)	(30)%
4530 Other Miscellaneous Receipts	63,000	52,500	<b>44,001</b>	(8,499)	5,250	<b>349</b>	(4,901)	(18,999)	(30)%
4551 Benefit Assessment Income	2,147,755	1,151,851	<b>1,181,433</b>	29,581	0	<b>420</b>	420	(966,322)	(45)%
<b>Total Revenues</b>	<b>11,008,397</b>	<b>6,222,140</b>	<b>6,367,571</b>	<b>145,431</b>	<b>383,138</b>	<b>412,575</b>	<b>29,437</b>	<b>(4,640,826)</b>	<b>(42)%</b>
<b>Expenditures</b>									
<b>Payroll Expenses</b>									
5101 Payroll - FT	4,848,777	4,040,648	<b>3,798,187</b>	242,461	404,065	<b>339,066</b>	64,999	1,050,590	22 %
5102 Payroll Seasonal	205,140	170,950	<b>174,404</b>	(3,454)	17,095	<b>12,401</b>	4,694	30,736	15 %
5103 Temporary Services	6,900	5,750	<b>6,900</b>	(1,150)	575	<b>0</b>	575	0	0 %
5105 Payroll - Overtime Expense	18,700	15,583	<b>19,146</b>	(3,562)	1,558	<b>19</b>	1,539	(446)	(2)%
5150 CalPERS State Retirement	1,221,020	1,143,806	<b>1,101,988</b>	41,818	38,607	<b>58,634</b>	(20,027)	119,033	10 %
5155 Social Security Expense	304,643	253,869	<b>249,464</b>	4,405	25,387	<b>22,274</b>	3,113	55,179	18 %
5165 Medicare Expense	71,247	59,373	<b>59,497</b>	(124)	5,937	<b>5,239</b>	698	11,750	16 %
5170 Cafeteria Plan	1,093,206	911,005	<b>974,646</b>	(63,640)	91,101	<b>87,652</b>	3,448	118,561	11 %
5172 Retiree Healthcare	352,420	293,683	<b>30,381</b>	263,302	29,368	<b>4,856</b>	24,512	322,039	91 %
5180 Deferred Compensation	105,231	87,693	<b>65,853</b>	21,839	8,769	<b>17,234</b>	(8,465)	39,378	37 %
5195 Unemployment Insurance	32,066	26,722	<b>33,657</b>	(6,935)	2,672	<b>724</b>	1,948	(1,591)	(5)%
<b>Total Payroll Expenses</b>	<b>8,259,352</b>	<b>7,009,082</b>	<b>6,514,123</b>	<b>494,960</b>	<b>625,135</b>	<b>548,101</b>	<b>77,034</b>	<b>1,745,229</b>	<b>21 %</b>

CVMVCD  
Statement of Revenue and Expenditures  
April 30, 2020

	Annual Budget	YTD Budget	YTD Actual	YTD Budget Variance	Current Period Budget	Current Period Actual	Current Period Variance	Annual Budget Variance	Percent Annual Budget
<b>Administrative Expenses</b>									
5250 Tuition Reimbursement	15,000	12,500	10,480	2,020	1,250	2,010	(760)	4,520	30 %
5300 Employee Incentive	10,000	8,333	6,209	2,124	833	0	833	3,791	38 %
5301 Employee Support	3,500	2,917	2,792	125	292	213	79	708	20 %
5302 Wellness	600	500	1,395	(895)	50	843	(793)	(795)	(133)%
5305 Employee Assistance Program	3,500	2,917	3,006	(89)	292	275	17	494	14 %
6000 Property & Liability Insurance	114,911	91,426	98,245	(6,819)	11,743	11,856	(114)	16,666	15 %
6001 Workers' Compensation Insurance	180,303	142,753	95,833	46,919	18,775	18,765	10	84,470	47 %
6050 Dues & Memberships	28,500	27,665	28,663	(998)	418	330	88	(163)	(1)%
6060 Reproduction & Printing	26,750	22,292	7,368	14,923	2,229	1,219	1,010	19,382	72 %
6065 Recruitment/Advertising	7,000	5,833	5,281	553	583	539	44	1,719	25 %
6070 Office Supplies	19,200	16,000	11,028	4,972	1,600	532	1,068	8,173	43 %
6075 Postage	5,500	4,583	1,566	3,017	458	0	458	3,934	72 %
6080 Computer & Network Systems	5,000	4,167	3,831	336	417	0	417	1,169	23 %
6085 Bank Service Charges	120	100	(10)	110	10	0	10	130	108 %
6090 Local Agency Formation Comm.	1,200	1,200	2,287	(1,087)	0	0	0	(1,087)	(91)%
6095 Professional Fees	52,500	43,750	46,825	(3,075)	4,375	4,291	84	5,675	11 %
6100 Attorney Fees	49,000	40,833	58,673	(17,840)	4,083	4,112	(28)	(9,673)	(20)%
6106 HR Risk Management	4,500	3,750	4,725	(975)	375	0	375	(225)	(5)%
6110 Conference Expense	53,500	46,433	27,768	18,666	6,733	(1,234)	7,967	25,733	48 %
6115 In-Lieu	13,200	11,000	11,000	0	1,100	1,100	0	2,200	17 %
6120 Trustee Support	4,800	4,000	4,251	(251)	400	0	400	550	11 %
6200 Meetings Expense	4,620	3,850	1,478	2,372	385	22	363	3,142	68 %
6210 Promotion & Education	26,500	22,083	18,868	3,215	2,208	5,297	(3,089)	7,632	29 %
6220 Public Outreach Advertising	45,000	37,500	1,786	35,714	3,750	8	3,742	43,214	96 %
6500 Benefit Assessment Expenses	96,000	96,000	84,970	11,030	0	0	0	11,030	11 %
<b>Total Administrative Expenses</b>	<b>770,704</b>	<b>652,385</b>	<b>538,319</b>	<b>114,066</b>	<b>62,360</b>	<b>50,179</b>	<b>12,180</b>	<b>232,385</b>	<b>30 %</b>
<b>Utilities</b>									
6400 Utilities	105,000	87,500	90,398	(2,898)	8,750	6,237	2,513	14,602	14 %
6410 Telecommunications	11,000	9,167	28,105	(18,938)	917	4,377	(3,461)	(17,105)	(155)%
<b>Total Utilities</b>	<b>116,000</b>	<b>96,667</b>	<b>118,503</b>	<b>(21,836)</b>	<b>9,667</b>	<b>10,615</b>	<b>(948)</b>	<b>(2,503)</b>	<b>(2)%</b>



CVMVCD  
Statement of Revenue and Expenditures  
April 30, 2020

	Annual Budget	YTD Budget	YTD Actual	YTD Budget Variance	Current Period Budget	Current Period Actual	Current Period Variance	Annual Budget Variance	Percent Annual Budget
<b>Operating</b>									
7000 Uniform Expense	30,500	25,450	<b>35,831</b>	(10,381)	2,525	<b>4,325</b>	(1,800)	(5,331)	(17)%
7050 Safety Expense	25,000	20,833	<b>16,163</b>	4,671	2,083	<b>3,999</b>	(1,916)	8,837	35 %
7100 Physican Fees	5,000	4,167	<b>4,795</b>	(628)	417	<b>270</b>	147	205	4 %
7150 IT Communications	40,000	33,333	<b>32,747</b>	586	3,333	<b>3,155</b>	179	7,253	18 %
7200 Household Supplies	4,000	3,333	<b>2,887</b>	447	333	<b>510</b>	(176)	1,113	28 %
7300 Repair & Maintenance	42,000	35,000	<b>34,597</b>	403	3,500	<b>1,330</b>	2,170	7,403	18 %
7310 Maintenance & Calibration	7,800	6,500	<b>5,462</b>	1,038	650	<b>474</b>	176	2,338	30 %
7350 Permits, Licenses & Fees	21,750	18,125	<b>3,464</b>	14,661	1,813	<b>0</b>	1,813	18,286	84 %
7400 Vehicle Parts & Supplies	39,600	33,000	<b>24,528</b>	8,472	3,300	<b>751</b>	2,549	15,072	38 %
7420 Offsite Vehicle Maint & Repair	17,000	14,167	<b>25,102</b>	(10,935)	1,417	<b>537</b>	879	(8,102)	(48)%
7450 Equipment Parts & Supplies	15,500	12,917	<b>10,597</b>	2,320	1,292	<b>375</b>	917	4,903	32 %
7500 Small Tools Furniture & Equip	1,700	1,417	<b>3,480</b>	(2,064)	142	<b>108</b>	34	(1,780)	(105)%
7550 Lab Supplies & Expense	36,500	30,417	<b>23,668</b>	6,748	3,042	<b>2,551</b>	490	12,832	35 %
7570 Aerial Pool Surveillance	25,000	20,833	<b>54</b>	20,779	2,083	<b>0</b>	2,083	24,946	100 %
7575 Surveillance	52,000	43,333	<b>48,015</b>	(4,682)	4,333	<b>1,126</b>	3,208	3,985	8 %
7600 Staff Training	87,250	72,708	<b>32,905</b>	39,803	7,271	<b>(1,485)</b>	8,756	54,345	62 %
7650 Equipment Rental	1,000	833	<b>777</b>	57	83	<b>259</b>	(175)	223	22 %
7675 Contract Services	154,800	129,000	<b>106,214</b>	22,786	12,900	<b>9,737</b>	3,163	48,586	31 %
7700 Motor Fuel & Oils	80,200	66,833	<b>72,577</b>	(5,744)	6,683	<b>3,094</b>	3,589	7,623	10 %
7750 Field Supplies	9,400	7,833	<b>7,563</b>	270	783	<b>97</b>	686	1,837	20 %
7800 Control Products	785,000	654,167	<b>759,203</b>	(105,036)	65,417	<b>356</b>	65,061	25,797	3 %
7850 Aerial Applications	124,500	103,750	<b>161,606</b>	(57,856)	10,375	<b>15,174</b>	(4,799)	(37,106)	(30)%
8415 Capital Outlay	53,300	44,417	<b>29,331</b>	15,086	4,442	<b>5,471</b>	(1,030)	23,969	45 %
8510 Research Projects	150,000	150,000	<b>130,454</b>	19,546	0	<b>0</b>	0	19,546	13 %
9000 Contingency Expense	150,000	125,000	<b>34,398</b>	90,602	12,500	<b>0</b>	12,500	115,602	77 %
<b>Total Operating</b>	<b>1,958,800</b>	<b>1,657,367</b>	<b>1,606,418</b>	<b>50,948</b>	<b>150,717</b>	<b>52,213</b>	<b>98,504</b>	<b>352,382</b>	<b>18 %</b>
<b>Contribution to Capital Reserves</b>									
8900 Transfer to other funds	503,547	419,622	<b>419,623</b>	0	41,962	<b>41,962</b>	0	83,925	17 %
<b>Total Contribution to Capital Reserves</b>	<b>503,547</b>	<b>419,622</b>	<b>419,623</b>	<b>0</b>	<b>41,962</b>	<b>41,962</b>	<b>0</b>	<b>83,925</b>	<b>17 %</b>
<b>Total Expenditures</b>	<b>11,608,403</b>	<b>9,835,123</b>	<b>9,196,985</b>	<b>638,138</b>	<b>889,840</b>	<b>703,070</b>	<b>186,770</b>	<b>2,411,418</b>	<b>21 %</b>
<b>Net revenue over/(under) expenditures</b>	<b>(600,006)</b>	<b>(3,612,983)</b>	<b>(2,829,414)</b>	<b>783,569</b>	<b>(506,702)</b>	<b>(290,494)</b>			

**CVMVCD**  
Balance Sheet  
As of 4/30/2020

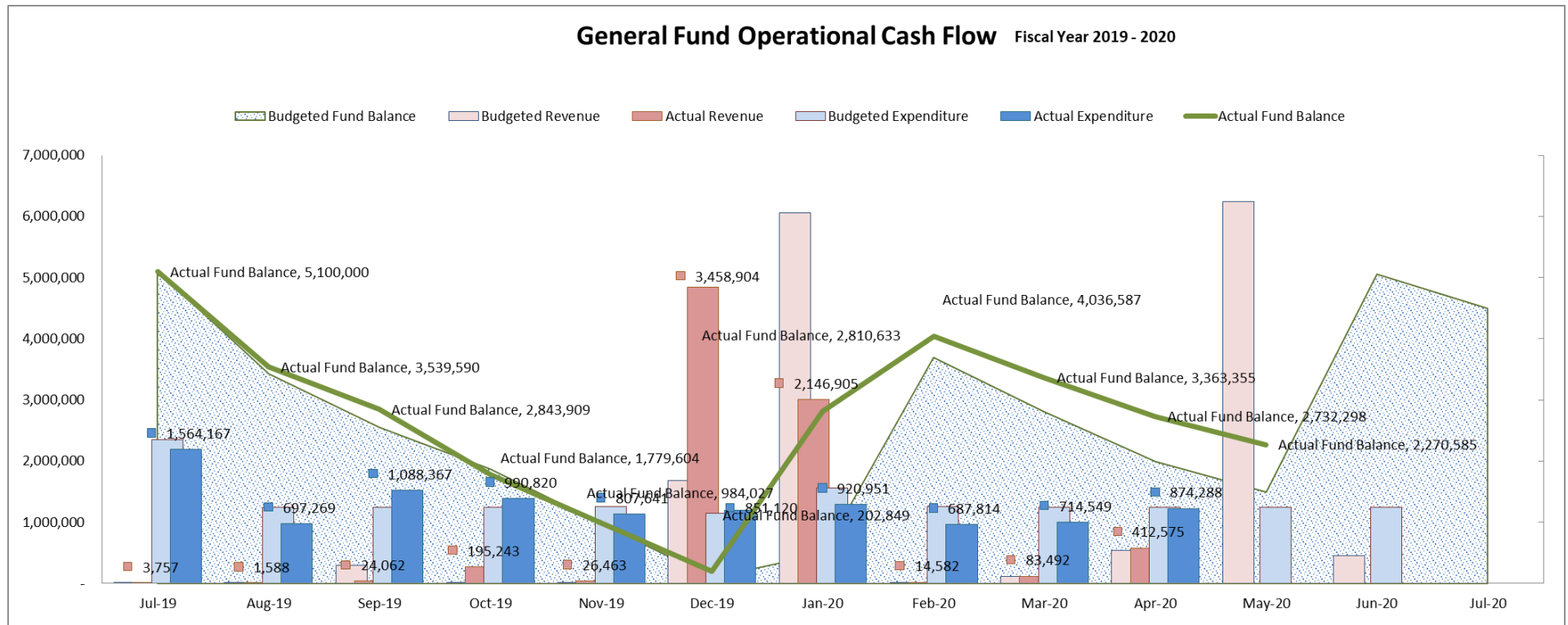
		<b>Current Year</b>
Assets		
Cash and Investments		
1000	Cash - Investments	10,000,517.77
1016	Petty Cash	500.00
1017	Petty Cash Checking	1,500.00
1025	First Foundation - General	83,691.25
1026	First Foundation - Payroll	609,081.50
	Total Cash and Investments	10,695,290.52
Current Assets		
1050	Accounts Receivable	20,261.14
1085	Inventory	510,872.04
1168	Prepaid Insurance	76,327.53
1169	Deposits	587,624.00
	Total Current Assets	1,195,084.71
Fixed Assets		
1170	Construction in Progress	7,050.00
1300	Equipment/Vehicles	2,124,325.38
1310	Computer Equipment	450,521.22
1311	GIS Computer Systems	301,597.91
1320	Office Furniture & Equipment	1,218,124.91
1330	Land	417,873.30
1335	Oleander Building	5,665,861.83
1336	Signage	23,651.39
1340	Structures & Improvements	3,026,125.52
1341	Bio Control Building	6,998,161.74
1342	Bio Control Equip/Furn	43,986.77
1399	Accumulated Depreciation	(9,652,522.60)
	Total Fixed Assets	10,624,757.37
Other Assets		
1520	Resources to Be Provided	3,514,102.32

**CVMVCD**  
Balance Sheet  
As of 4/30/2020

		<b>Current Year</b>
1525	Deferred Outflows of Resources	1,142,648.00
1530	Deferred Outflows of Resources - OPEB	312,420.00
1900	Due to/from	0.10
	Total Other Assets	4,969,170.42
	Total Assets	27,484,303.02
Liabilities		
Short-term Liabilities		
Accounts Payable		
2015	Credit Card Payable	14,308.61
2020	Accounts Payable	34,925.52
2030	Accrued Payroll	116,159.45
2040	Payroll Taxes Payable	50,440.35
2175	Claims/Judgements Payable	396.30
2185	Employee Dues	5,073.13
	Total Accounts Payable	221,303.36
	Total Short-term Liabilities	221,303.36
Long-term Liabilities		
2100	Pollution Remediation Obligation	2,100,000.00
2200	Net Pension Liability	1,585,309.00
2210	Deferred Inflows of Resources	118,606.00
2300	Net OPEB Liability	715,923.00
2500	Compensated Absences Payable	689,034.56
	Total Long-term Liabilities	5,208,872.56
	Total Liabilities	5,430,175.92
Fund Balance		
Non Spendable Fund Balance		
3920	Investment in Fixed Assets	10,698,793.35
3945	Reserve for Prepaids & Deposit	1,373,799.43
3960	Reserve for Inventory	532,128.63

**CVMVCD**  
Balance Sheet  
As of 4/30/2020

		<b>Current Year</b>
	Total Non Spendable Fund Balance	12,604,721.41
	Committed Fund Balance	
3965	Public Health Emergency	4,103,640.00
	Total Committed Fund Balance	4,103,640.00
	Assigned Fund Balance	
3910	Reserve for Operations	4,500,000.00
3925	Reserve for Future Healthcare Liabilities	877,253.00
3955	Thermal Remediation Fund	463,724.00
3970	Reserve for IT Replacement	277,991.00
3971	Reserve for Vehicle Replacement	344,376.00
3990	Reserve for Future Constructio	(315.00)
	Total Assigned Fund Balance	6,463,029.00
	Unassigned Fund Balance	
3900	Fund Equity	1,745,084.30
3999	P&L Summary	213,934.75
	Total Unassigned Fund Balance	1,959,019.05
	Current YTD Net Income	(3,076,282.36)
	Total Current YTD Net Income	(3,076,282.36)
	Total Fund Balance	22,054,127.10
	Total Liabilities and Net Assets	27,484,303.02



The **General Fund Operational Cash Flow** graph outlines the District's working capital for the fiscal year July 1 2019 to June 30 2020. The beginning fund balance is \$5.1 million and ending fund balance is \$4.5 million. Expenditure is approximately divided by 12 equal months, with some differences accounting for the seasonality of the program for example control products and seasonal employment which are greater in the mosquito breeding season. July expenditure is higher than average because of the prefunding lump sum of \$750,000 for CalPERS unfunded liability. The budget also accounts for prepayments. The revenue follows a different pattern, Riverside County distribute the property tax revenue in January and May with advancements in December and April.

The *shaded area* represents the **Budgeted Fund Balance** which has a formula of (beginning) **Fund Balance** plus **Revenue** minus **Expenditure**. The *green line* represents the **Actual Fund Balance** and is graphed against the *shaded area* **Budgeted Fund Balance**.

The graph shows for June 1 the \$5.1 million **Fund Balance** plus total Revenue for July 1 to April 30, 2020 of \$6.4 million minus total Expenditure of \$9.2 million is \$2.3 million. For planning purposes the District is under budget, showing expenditure is \$638,138 less than budgeted. Revenue is higher than budgeted by \$145,431, with Property tax and Benefit Assessment receipts higher than anticipated. As long as the green line stays out of the shaded area the District is within budget, as of April 30, 2020, the line is outside the shaded area.

Board Action Item / Description	Month	Status	Comment	
<b>Agreements</b>				
	Cleaning Services Agreement with CleanExcel	January	Completed	
	Adulticiding and Larviciding Aerial Applications Agreement with Salton Sea Air Service	February	Completed	
	MOU between CVAG and City of Indio		In progress	Awaiting agreement with CVWD regarding destruction of standpipes.
<b>Resolutions And Proclamations</b>				
	Resolution No. 2020-01 Adopting the District's Social Media Policy and Resolution	January	Completed	
	Proclamation Supporting Participation in the 2020 Census	January	Completed	
	Resolution No. 2020-02 Approving the District's Pay Schedule	February	Completed	
	Resolution No. 2020-03 Authorizing the Closure of Demand Deposit Accounts with First Foundation Bank	March	Completed	
	Resolution No. 2020-04 Authorizing the Opening	March	Completed	

	of Demand Deposit Accounts with California Bank & Trust Bank			
	Resolution No. 2020-05 Proclaiming and Ratifying the Existence of a Local Emergency	March	Completed	
	Resolution No. 2020-06 Adopting 2020 CVMVCD Mosquito-Borne Surveillance and Emergency Response Plan	May	In Progress	
<b>Other</b>				
	IT Security Awareness Training Program Kickoff	October (2019)	In Progress	
	General Manager Employment Agreement	January	Completed	
	General Counsel Evaluation	February	Completed	



## COACHELLA VALLEY MOSQUITO & VECTOR CONTROL DISTRICT

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🌐 [www.cvmosquito.org](http://www.cvmosquito.org) ✉ [CVmosquito@cvmvcd.org](mailto:CVmosquito@cvmvcd.org) 📱 @cvmosquito 📺 @CV\_mosquito

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### California Special Districts Week

May 17-23, 2020

**WHEREAS**, Special districts are local governmental entities created by a community's residents, funded by those residents, and overseen by those residents, to provide specialized services and infrastructure; and

**WHEREAS**, Today, just over 2,000 independent special districts provide millions of Californians with essential services, including services related to water, sanitation and water recycling, fire protection, electricity, parks and recreation, health care, open space, ports and harbors, flood protection, mosquito abatement, cemeteries, resource conservation, airports, transit, road maintenance, veterans' facilities, and more; and

**WHEREAS**, The Coachella Valley Mosquito Abatement District was formed under the California Mosquito Abatement by the Riverside County Board of Supervisors in 1928 as a Special District; and

**WHEREAS**, Although originally created to provide individual services, in 1961 the Legislature authorized special districts to address multiple needs, when it provided for multipurpose, community services districts; and

**WHEREAS**, Local residents own special districts and govern them through locally elected or appointed boards. A series of sunshine laws ensure special districts remain transparent and accountable to the communities they serve, as these laws require open and public meetings, public access to records, regular audits, online posting of finances and compensation, and more; and

**WHEREAS**, To prevent overlapping services and ensure that local agencies are operating effectively and efficiently to meet communities' needs, special districts are formed, reviewed, consolidated, or dissolved through a methodical local process that includes the oversight of a local agency formation commission and the consent of local voters; and

**WHEREAS**, Fifty one years ago, in 1969, several independent special districts formed a statewide association called the California Special Districts Association, commonly referred to as the CSDA,





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to promote good governance and improved essential local services through professional development, advocacy, and other services for all types of independent special districts; and

**WHEREAS,** The Coachella Valley Mosquito Abatement District seeks to promote democratic institutions, community-based services, local control, and self-determination; and

**WHEREAS,** The Coachella Valley Mosquito Abatement District seeks to promote and educate the public about their local public service providers, including awareness and understanding of special districts;

**NOW, THEREFORE,** the Board of Trustees of the Coachella Valley Mosquito and Vector Control District does hereby proclaim the week of May 17-23, 2020

### **California Special Districts Week 2020**

Dated this 12<sup>th</sup> day of May, 2020.

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**Franz De Klotz, President Board of Trustees**



**Coachella Valley Mosquito and Vector  
Control District**

**May 12, 2020**

**Staff Report**

**Agenda Item:** Informational Item

Prerecorded Presentations for the Board and the Public - **Jeremy Wittie, M.S., General Manager**

**Background:**

In an effort to keep the Board of Trustees and the public informed about our operations while keeping meetings timely, presentations will now be available for viewing through a hyperlink that will be added to the Staff Report (see below).

The District's Integrated Vector Management (IVM) program is an integral tool we utilize to reach our mission of providing effective and environmental sound vector control and vector-borne disease prevention programs. The District's IVM program is primarily focused on three areas; Surveillance and Quality Control, Operations, and Public Outreach. Each of the Department Managers have put together a presentation outlining the activities and virus suppression efforts accomplished in the last few weeks.

The General Manager report is also available in a prerecorded presentation for viewing through the hyperlink below.

I invite you to watch the presentations and if you would like to discuss anything from the video updates, please feel free to pull the item for discussion during the Board meeting.

**Hyperlinks to Prerecorded Presentations:**


- Surveillance and Quality Control
- Operations
- Public Outreach
- General Manager Report

**SECTION**

**9**



**OLD BUSINESS**

	<p><b>Coachella Valley Mosquito and Vector Control District</b></p> <p><b>Staff Report</b></p>	<p><b>May 12, 2020</b></p>
<p><b>Agenda Item:</b> Old Business</p> <p>Approval of Resolution 2020-06 Amending the CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan – <b>Jennifer A. Henke, MS, Laboratory Manager</b></p>		
<p><b>Background:</b></p> <p>The District’s mission is to protect the health of the public in the Coachella Valley from excessive nuisance, caused by mosquitoes, and to mitigate risk from mosquito-borne viral disease through its ongoing mosquito surveillance and control program. Intensive control measures may be applied to reduce the potential for virus transmission to humans by suppressing infected mosquito populations for no less than a 10-day period while infectious viremia persists in vertebrate hosts, thus breaking the cycle by preventing new vector infections.</p> <p>The <i>CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan</i> describes an enhanced surveillance and response program for the Coachella Valley dependent on the level of risk of mosquito-borne virus transmission to humans. The plan was created in 2003 and is updated every year to follow changes in surveillance and new findings regarding arboviruses. The Mosquito-borne Virus Surveillance &amp; Response Plan generated by California Department of Public Health, Mosquito &amp; Vector Control Association of California and University of California, is the core of this document; however, some necessary adjustments were made in benchmark ratings relative to the conditions in the Coachella Valley.</p>		
<p><b>Staff Recommendation:</b></p> <p>Approval of Resolution 2020-06 revising the CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan.</p>		
<p><b>Exhibits:</b></p> <ul style="list-style-type: none"> <li>• Resolution 2020-06</li> <li>• CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan</li> </ul>		

**Resolution No. 2020-06**

**A RESOLUTION OF THE BOARD OF TRUSTEES OF THE  
COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL  
DISTRICT AMENDING THE CVMVCD MOSQUITO-BORNE VIRUS  
SURVEILLANCE AND EMERGENCY RESPONSE PLAN**

**WHEREAS**, the Coachella Valley Mosquito and Vector Control District (the “District”) is a political subdivision of the State of California, created and operating under the authority and provisions of California Health and Safety Code Section 2000 et seq.; and

**WHEREAS**, the State of California annually adopts the California Mosquito-Borne Virus Surveillance and Response Plan (“State Risk Assessment Plan”) which provides local agencies with a decision support system outlining the roles and responsibilities involved with mosquito-borne virus surveillance and response; and

**WHEREAS**, the District has prepared its own Mosquito-Borne Virus Surveillance and Emergency Response Plan, attached hereto as Exhibit “A” and incorporated herein by this reference (“District Risk Assessment Plan”), which incorporates the State Risk Assessment Plan with certain adjustments made to benchmark ratings relative to the conditions in the Coachella Valley.

**NOW, THEREFORE, THE BOARD OF TRUSTEES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:**

**Section 1. Recitals.**

The recitals set forth above are true and correct.

**Section 2. Adoption of Amended District Risk Assessment Plan.**

The Board of Trustees hereby adopts the amended District Risk Assessment Plan.

**Section 3. Delegation of Authority.**

The District’s General Manager is hereby delegated all authority necessary to implement the District Risk Assessment Plan in a manner that is consistent with the State Risk Assessment Plan and the conditions in the Coachella Valley.

**Section 4. Public Inspection and Copying.**

A copy of the District Risk Assessment Plan shall be maintained at the District offices and shall be made available for public inspection and copying during regular business hours.

**Section 5. Severability.**

The Board of Trustees declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

**Section 6. Repeal of Conflicting Provisions.**

All the provisions of any resolution or policy heretofore adopted by the District that are in conflict with the provisions of this Resolution are hereby repealed.

**Section 7. Effective Date.**

This Resolution shall take effect upon its adoption.

**Section 8. Certification.**

The Clerk of the Board shall certify as to the adoption of this Resolution and shall cause the same to be processed in the manner required by law.

**[THE REMAINDER OF THIS PAGE LEFT INTENTIONALLY BLANK]**

**PASSED, ADOPTED AND APPROVED, this 12<sup>th</sup> day of May, 2020.**

\_\_\_\_\_  
Franz De Klotz, President  
Board of Trustees

**ATTEST:**

\_\_\_\_\_  
Graciela Morales, Clerk of the Board

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Lena D. Wade, General Counsel

**REVIEWED:**

\_\_\_\_\_  
Jeremy Wittie, MS, General Manager

**EXHIBIT "A"**

**SEE ATTACHED  
COACHELLA VALLEY MOSQUITO AND  
VECTOR CONTROL DISTRICT  
MOSQUITO-BORNE VIRUS SURVEILLANCE AND  
EMERGENCY RESPONSE PLAN**



# COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

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## MOSQUITO-BORNE VIRUS SURVEILLANCE AND EMERGENCY RESPONSE PLAN



CVMVCD 43-420 Trader Place Indio, CA 92201  
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## **I. INTRODUCTION**

For 51 years, California has had a mosquito-borne disease surveillance program in place to monitor mosquito abundance and encephalitis virus activity. The state-wide surveillance program was established in 1969. The District started with surveillance in the early 1980s. The present program was established in 1990 through a cooperative effort of the Arbovirus Research Group at the School of Public Health, UC Berkeley (now the Davis Arbovirus Research and Training, UC Davis), and the Coachella Valley Mosquito and Vector Control District (the District).

The District mission is to enhance the quality of life for our community by providing effective and environmentally sound vector control and vector-borne disease prevention programs. This mission is accomplished through an ongoing mosquito surveillance and control program. Intensive control measures may be applied to reduce the potential for virus transmission to humans by suppressing infected mosquito populations for no less than a 10-day period while infectious viremia persists in vertebrate hosts, thus breaking the cycle by preventing new vector infections.

This document describes an enhanced surveillance and response program for the Coachella Valley dependent on the level of risk of mosquito-borne virus transmission to humans. The Mosquito-borne Virus Surveillance & Response Plan generated by California Department of Health Services, Mosquito & Vector Control Association of California and University of California, is the core of this document; however some necessary adjustments were made in benchmark ratings relative to the conditions in the Coachella Valley.

Guidelines for adult mosquito surveillance, processing mosquitoes for arbovirus detection, and testing dead birds and equines, as well as information regarding compounds approved for mosquito control in California are part of the California State Mosquito-Borne Virus Surveillance & Response plan.

## **II. BACKGROUND INFORMATION**

Mosquito-borne viruses belong to a group of arthropod-borne viruses referred to us as arboviruses (for **arthropod-borne**). From 15 mosquito-borne viruses known to occur in California, to date, only St. Louis encephalitis virus (SLEV), western equine encephalomyelitis virus (WEEV), and West Nile virus (WNV) have caused significant outbreaks of human disease. These viruses are maintained in nature in wild bird-mosquito cycles, and therefore they do not depend upon infections of humans or domestic animals for their persistence.

Surveillance includes the monitoring of immature and adult mosquito abundance and detecting virus activity by testing (a) adult female mosquitoes, (b) sentinel chickens and wild birds, (c) horses, and (d) humans for infection. Surveillance must include not only the monitoring of mosquito-borne viruses known to exist in California, but also the detection of newly introduced viruses.

### III. MOSQUITO SURVEILLANCE OBJECTIVES

Mosquito control is the only practical method of protecting people and animals from WNV, SLEV and WEEV infections. Larvae and pupae (immature stages) of *Culex tarsalis* and *Culex quinquefasciatus* can be found throughout the Coachella Valley in a wide variety of aquatic sources, ranging from urban retention basins to irrigated agricultural lands, Salton Sea marshes and duck club habitats.

#### A. MOSQUITO SURVEILLANCE

Surveillance includes monitoring of immature and adult mosquito abundance in the Coachella Valley throughout the year. To monitor mosquito larvae, “dippers” or long-handled ladles are used to collect samples from known and new water sources. At that time, the number of larvae and pupae per “dip” is estimated. These data are used to determine larval control measures. The records of the number and developmental stages of larvae, source size treated, product name and amount used, with the control effectiveness data can provide an early warning tool for forecasting the size of the adult population.

Mosquito adult surveillance in the Coachella Valley is conducted by setting 53 gravid and CO<sub>2</sub>-baited traps on a weekly basis, and setting an additional 56 CO<sub>2</sub> traps on a bi-weekly basis. Adult mosquito abundance is a key factor when evaluating the risk of disease transmission. **Guidelines for mosquito surveillance are summarized in Appendix A of California Mosquito-Borne Virus Surveillance and Response Plan – April 2019.**

#### B. MOSQUITO INFECTIONS

Early detection of virus activity may be accomplished by testing *Culex tarsalis* and *Culex quinquefasciatus*, the primary vectors of SLEV, WEEV, and WNV in the Coachella Valley for virus infection. Sampling of other mosquito species may be necessary to detect the introduction of viruses that do not have a primary avian-*Culex* transmission. Mosquitoes are trapped by using carbon-dioxide-baited traps and using gravid traps baited with water with enriched organic content and the females are then pooled in groups up to 50 for testing at the District. **Procedures for processing mosquitoes for virus infection are summarized in Appendix B California Mosquito-Borne Virus Surveillance and Response Plan – April 2019.**

#### C. DEAD BIRDS

Dead birds are reported to CDPH, then brain and eye tissue is sampled and tested at the District Laboratory for WNV. The dead bird testing algorithm is provided **in Appendix E of the California Mosquito-Borne Virus Surveillance and Response Plan – April 2019.**

#### D. EQUINE INFECTIONS

Equine disease due to WEEV and WNV is not a sensitive indicator of epizootic (infections only in animals) WEEV and WNV activity in California. The reason for this is the widespread vaccination of equines. If confirmed cases do occur, it is a strong indication that WEEV or WNV is active in the region. California Department of Agriculture (CDFA) and CDPH annually

contact veterinarians to ensure equine vaccinations. Besides WEEV and WNV, other mosquito-borne viruses may also cause encephalitis in horses, and consequently, testing of equine specimens by CDPH has been expanded to include other viruses. **See Appendix F of the California Mosquito-Borne Virus Surveillance and Response Plan – April 2019.**

#### **E. HUMAN INFECTIONS**

In general, human cases are not a sensitive surveillance indicator of virus activity because most human infections (>99%) have no, or only mild, symptoms. When severe encephalitis cases do occur, rarely are arboviruses suspected, and sera generally are not sent to CDPH for testing. Communication with key hospitals and local health officials has been enhanced in the last year. However, rapid detection and reporting of confirmed human cases is crucial to local mosquito control agencies in planning and expending emergency control activities to prevent additional infections. **(See Appendices G and H of the California Mosquito-Borne Virus Surveillance and Response Plan – April 2019.)**

#### **F. DATA ANALYSIS AND INTERPRETATION**

1. All weather reports received from state and local agencies that can affect mosquito breeding will be reviewed and analyzed by the District staff. Weekly and biweekly mosquito occurrence reports received from the CVMVCD laboratory and from the CDPH – VBDS statewide will be used for forecasting purposes. For websites related to weather conditions refer to **Appendix K of the California Mosquito-Borne Virus Surveillance and Response Plan – April 2019.**

2. Reports from CVMVCD laboratory, CDPH – VBDS, and UCD on virus isolations in mosquito pools, confirmed human cases and horse cases of encephalitis will be used for operational program planning.

#### **G. PUBLIC INFORMATION AND EDUCATION**

Residents, farmers, and duck club owners can play an important role in reducing the number of adult mosquitoes by eliminating standing water that may support the development of immature mosquitoes. Farmers and ranchers can ensure that irrigation practices do not allow standing water for extended periods, and duck club owners can work with mosquito control agencies to determine appropriate flooding schedules. Education regarding personal protective measures will help reduce exposure to mosquitoes (insect repellents, protective clothing time of the exposure to mosquitoes). Equally important is the education of the medical community to recognize the symptoms of WEEV, SLEV, and WNV and request proper laboratory testing for their confirmation. Public health officials need to be alerted if a mosquito-borne viral disease is detected, especially if the public health risk is high.

The level of public information and education depends on the conditions and required response.

**Level 1:** During a normal mosquito-breeding season, routine public education will be conducted.

**Level 2:** Emergency planning and enhanced public education will be conducted. This includes posted messages on the symptoms of encephalitis, public information about pesticide applications and recommendations about avoiding mosquito bites.

**Level 3:** Full-scale media campaign is required at this level. Coordinate with CDPH in a regional emergency response in conjunction with California Office of Emergency Services in informing County Board of Supervisors, Local Health Departments, city, and county officials.

#### **IV. MOSQUITO CONTROL OBJECTIVES**

Mosquito control in California is conducted by over 80 local agencies, including mosquito and vector control districts, environmental health departments, and county health departments.

The Coachella Valley Mosquito and Vector Control District is a Special District and public agency that operates under the California Health and Safety Code, section 2270 (2000). The District currently serves 2400 square miles and is governed by an 11 member board of Trustees, nine representing the incorporated cities and two from Riverside County at large.

The District mission is to reduce the risk from disease carried by mosquitoes and other vectors for residents in the Coachella Valley. **See Appendix I of the California Mosquito-Borne Virus Surveillance and Response Plan – April 2019** for compounds approved for mosquito control in California.

##### **A. LARVAL CONTROL**

This strategy prevents producing another generation of mosquitoes capable of transmitting disease. Control of larvae is target-specific and covers a defined area. Larval mosquito control includes environmental manipulation, biological control, and chemical control.

**Environmental manipulation** decreases habitat availability for immature mosquitoes. It may include water management, such as conservative crop irrigation in the Coachella Valley in date and citrus orchards, removal of standing water in the urban areas, re-circulation of water at fish farms and water disposal through evaporation, such as at duck clubs.

**Biological control** uses natural predators, parasites, or pathogens to suppress immature stages of mosquitoes. In the Coachella Valley, mosquitofish, *Gambusia affinis*, are the most widely used biocontrol agent. These fish are released annually in a variety of habitats, mostly abandoned pools.

**Chemical control** presently includes products that are highly specific and have minimal impact on non-target organisms. These products include microbial control agents, such as *Bacillus thuringiensis israelensis* (Bti), *Lysinibacillus sphaericus* and spinosad. Microbial products control mosquito larvae within 24 - 48 hours, and Bti is used in short term habitats, such as irrigated dates and citrus orchards. Microbial products with a longer residual, such as *Lysinibacillus sphaericus*, are mostly used at permanent habitats of *Culex tarsalis* where penetration of the product is not an issue, or is applied by air to force the granules through the dense vegetation. Products based on the microbial-derived spinosad toxins are an effective tool to control immature mosquitoes; at the doses used to control mosquitoes there is little danger of non-target impacts. Spinosad containing products come in a variety of formulations; some work quickly within 48 hours, and others have a residual effect of up to 180 days. Insect growth regulators, such as methoprene, are widely in use in permanent breeding sources of *Culex tarsalis*, for instance, salt marshes along the Salton Sea and duck club ponds. Lightweight oils and monomolecular surface films are also used, but have the drawback of suffocating non-target surface breathing aquatic organisms as well. These surface products are primarily used against sources with large numbers of pupae.

## **B. ADULT CONTROL**

Adult mosquito control may be required as an additional measure to control populations of infected mosquitoes and stem an epidemic. Adult mosquito control products may be applied by ground-based equipment and fixed wing airplanes or helicopters. Many factors need to be considered when selecting a pesticide and the target area for adult mosquito control treatments. These factors may include (1) efficacy against the target species or life cycle stages, (2) pesticide resistance (3) pesticide label requirements, (4) availability of pesticide and application equipment, (5) environmental conditions (6) cost, and (7) toxicity to non-target species, including humans. The products most likely used for adult mosquito control in the Coachella Valley include pyrethrin and pyrethroids such as resmethrin, sumithrin, etofenprox, lambda-cyhalothrin, permethrin, prallethrin, deltamethrin, and esfenvalerate. These products may be applied with a synergist such as piperonyl butoxide (PBO).

## **V. RESPONSE LEVELS**

The California Mosquito-borne Virus Surveillance and Response Plan is based on conditions that exist at three response levels identified as normal season, emergency planning, and epidemic conditions. Six risk factors that are analyzed to determine the appropriate response level include:

- Environmental conditions (wetland surface water area, rainfall, and temperature)
- Adult mosquito vector abundance
- Virus isolation rates from mosquitoes
- Infection rates in wild or domestic animals
- Human cases of mosquito-borne viruses
- Proximity of detected virus activity to urban or suburban regions

Sentinel chicken seroconversions should be used in areas where they are available. Each of these factors is rated on a scale of 1 to 5, with 5 representing conditions indicative of a high risk of human infection with a mosquito-borne virus. An average rating is determined for the six factors and is correlated with the response level as follows:

**Level 1: Normal Season (1.0 to 2.5)**

**Level 2: Emergency Planning (2.6 to 4.0)**

**Level 3: Epidemic Conditions (4.1 to 5.0)**

Tables 1 – 3 provide worksheets to assist in determining the appropriate rating for each of the risk factors. The term “average” refers to averages over non-epidemic years in a specific region, such as that within the boundaries of a local mosquito and vector control district. Averages typically are determined for the preceding five-year period. Roles and responsibilities of key agencies involved in carrying-out the surveillance and response plan are outlined in “Key Agency Responsibilities.”



## VI. MOSQUITO-BORNE VIRUS RISK ASSESSMENT TABLES

**Table 1. West Nile virus**

Table 1. WNV Surveillance Factor	Assessment Value	Benchmark	Value	
<b>1. Environmental conditions</b>  Favorable environmental conditions in the Coachella Valley for virus multiplication or transmission Considers ambient temperature and rainfall for prior 2-week period	1	Temperature $\leq 56^{\circ}\text{F}$		
	2	Temperature 57 - 65°F		
	3	Temperature 66 - 72°F		
	4	Temperature 73 – 79°F		
	5	Temperature $> 79^{\circ}\text{F}$		
			<i>Cx tars</i>	<i>Cx quinq</i>
<b>2. Adult <i>Culex tarsalis</i> and <i>Culex quinquefasciatus</i> abundance</b>  Area of North and West Shore in last 5 years = female mosquitoes /trap night for prior 2-week period.	1	Vector abundance well below average (<50%)		
	2	Vector abundance below average (50–90%)		
	3	Vector abundance average (90–150%)		
	4	Vector abundance above average (150–300%)		
	5	Vector abundance well above average (>300%)		
<b>3. Virus isolation rate in <i>Culex tarsalis</i> and <i>Culex quinquefasciatus</i> mosquitoes</b>  Tested in pools of 50. Test results expressed as minimum infection rate (MIR) per 1,000 female mosquitoes tested for the prior 2-week period	1	MIR / 1000 = 0		
	2	MIR / 1000 = 0–1.0		
	3	MIR / 1000 = 1.1–2.0		
	4	MIR / 1000 = 2.1-5.0		
	5	MIR / 1000 $> 5.0$		
<b>4. Dead bird infection</b>  Number of birds that have tested positive (recent infections only) for WNV during the prior 30 days.	1	No WN positive dead bird within 150 miles of District		
	2	WN positive dead bird within 150 miles of District		
	3	One WN positive dead bird in California		
	4	One WN positive dead bird in Coachella Valley.		
	5	Multiple WN positive dead bird reported in Coachella Valley		
<b>5. Human cases</b>  Do not include this factor in calculations if no cases are detected in region	3	One or more human infections within 150 miles of District.		
	4	One human infection in Coachella Valley		
	5	Multiple human infections in Coachella Valley.		
			<i>Cx tars</i>	<i>Cx quinq</i>
<b>Response Level / Average Rating:</b> Normal Season (1.0 to 2.5) Emergency Planning (2.6 to 4.0) Epidemic (4.1 to 5.0)		<b>TOTAL</b>		

**Table 2. Western Equine Encephalomyelitis virus**

Table 2. WEEV Surveillance Factor	Assessment Value	Benchmark	Value
<b>1. Environmental conditions</b> Favorable environmental conditions in the Coachella Valley for virus multiplication or transmission Considers ambient temperature and rainfall for prior 2-week period	1	Cumulative rainfall and runoff well below average	
	2	Cumulative rainfall and runoff below average	
	3	Cumulative rainfall and runoff average	
	4	Cumulative rainfall and runoff above average	
	5	Cumulative rainfall and runoff well above average	
<b>2. Adult <i>Culex tarsalis</i> abundance</b> Area of North and West Shore in last 5 years = female mosquitoes /trap night/ month	1	Vector abundance well below average (<50%)	
	2	Vector abundance below average (50–90%)	
	3	Vector abundance average (90–150%)	
	4	Vector abundance above average (150–300%)	
	5	Vector abundance well above average (>300%)	
<b>3. Virus isolation rate in <i>Culex tarsalis</i> mosquitoes</b> Tested in pools of 50. Test results expressed as minimum infection rate (MIR) per 1,000 female mosquitoes tested	1	MIR / 1000 = 0	
	2	MIR / 1000 = 0–1.0	
	3	MIR / 1000 = 1.1–2.0	
	4	MIR / 1000 = 2.1-5.0	
	5	MIR / 1000 > 5.0	
<b>4. Proximity to urban or suburban regions</b> (score only if virus activity detected) Risk of outbreak is highest in urban areas because of high likelihood of contact between humans and vectors.	1	Virus detected in rural area	
	3	Virus detected in small town or suburban area	
	5	Virus detected in urban area	
<b>5. Human cases</b> Do not include this factor in calculations if no cases found in region or in agency.	3	One or more human cases within 150 miles of District	
	4	One human case in Coachella Valley.	
	5	More than one human case in Coachella Valley.	
<b>Response Level / Average Rating:</b> Normal Season (1.0 to 2.5) Emergency Planning (2.6 to 4.0) Epidemic (4.1 to 5.0)	<b>TOTAL</b>		
	<b>AVERAGE</b>		

**Table 3. St. Louis Encephalitis virus**

Table 3. SLEV Surveillance Factor	Assessment Value	Benchmark	Value	
<b>1. Environmental conditions</b> Favorable environmental conditions in the Coachella Valley for virus multiplication or transmission. Considers ambient temperature for prior 2-week period.	1	Temperature $\leq 56^{\circ}\text{F}$		
	2	Temperature 57 - 65°F		
	3	Temperature 66 - 72°F		
	4	Temperature 73 – 79°F		
	5	Temperature $> 79^{\circ}\text{F}$		
			<i>Cx tars</i>	<i>Cx quinq</i>
<b>2. Adult <i>Culex tarsalis</i> and <i>Culex quinquefasciatus</i> abundance</b>  Area of North and West Shore in last 5 years = female mosquitoes /trap night for prior 2-week period.	1	Vector abundance well below average (<50%)		
	2	Vector abundance below average (50–90%)		
	3	Vector abundance average (90–150%)		
	4	Vector abundance above average (150–300%)		
	5	Vector abundance well above average (>300%)		
<b>3. Virus isolation rate in <i>Culex tarsalis</i> and <i>Culex quinquefasciatus</i> mosquitoes</b> Tested in pools of 50. Test results expressed as minimum infection rate (MIR) per 1,000 female mosquitoes tested for the prior 2-week period	1	MIR / 1000 = 0		
	2	MIR / 1000 = 0–1.0		
	3	MIR / 1000 = 1.1–2.0		
	4	MIR / 1000 = 2.1-5.0		
	5	MIR / 1000 > 5.0		
<b>4. Human cases</b> Do not include this factor in calculations if no cases are detected in region	3	One or more human infections within 150 miles of District		
	4	One human infection in Coachella Valley.		
	5	Multiple human infections in Coachella Valley.		
			<i>Cx tars</i>	<i>Cx quinq</i>
<b>Response Level / Average Rating:</b> Normal Season (1.0 to 2.5) Emergency Planning (2.6 to 4.0) Epidemic (4.1 to 5.0)	<b>TOTAL</b>			
	<b>AVERAGE</b>			

## VII. CHARACTERIZATION OF CONDITIONS AND RESPONSES

### Normal Season

Risk Rating: 1.0 – 2.5

<b>Conditions:</b>
<ul style="list-style-type: none"><li>• Average or below average rainfall; average seasonal temperatures</li><li>• Mosquito abundance at or below five year average (key indicator = adults of vector species)</li><li>• No virus isolations from mosquitoes</li><li>• No equine cases</li><li>• No recently infected arbovirus positive dead birds</li><li>• No human cases</li></ul>
<b>Response Activities by Role:</b>
General Manager <ul style="list-style-type: none"><li>• With Laboratory Manager, Operations Manager, and Public Information Officer, establish and maintain routine communication with local office of emergency services personnel; obtain Standardized Emergency Management System (SEMS) training</li><li>• Ensure adequate emergency funding with Administrative Finance Manager</li></ul>
Laboratory Manager <ul style="list-style-type: none"><li>• With General Manager, Operations Manager, and Public Information Officer establish and maintain routine communication with local office of emergency services personnel; obtain Standardized Emergency Management System (SEMS) training</li><li>• With Public Information Officer, send routine notifications to physicians and veterinarians</li></ul>
Operations Manager <ul style="list-style-type: none"><li>• With General Manager, Laboratory Manager, and Public Information Officer establish and maintain routine communication with local office of emergency services personnel; obtain Standardized Emergency Management System (SEMS) training</li><li>• Coordinate routine mosquito larval control</li><li>• Comply with National Pollutant Discharge Elimination System permit if applying pesticides to waters of the United States</li><li>• Inventory pesticides and equipment</li></ul>

Public Information Officer

- Conduct routine public education (eliminate standing water around homes, use personal protection measures)
- Release routine press notices
- Send routine notifications to physicians and veterinarians

Vector Ecologist

- Conduct routine mosquito and virus surveillance activities
- Evaluate pesticide resistance in vector species

**Emergency Planning**  
**Risk Rating 2.6-4.0**

<p><b>Conditions:</b></p> <ul style="list-style-type: none"> <li>• Temperature and rainfall above average</li> <li>• Adult mosquito abundance &gt;5-year average (150-300% above normal)</li> <li>• One or more virus isolations from mosquitoes (MIR / 1000 is &lt;5)</li> <li>• Evidence of recent infection in 1-5 wild birds within the District</li> <li>• One human case within 150 miles of District</li> <li>• If WEEV, viral activity in small towns or suburban area</li> </ul>
<p><b>Response Activities by Role:</b></p> <p>Laboratory Manager</p> <ul style="list-style-type: none"> <li>• Coordinate epidemic response in consultation with General Manager</li> <li>• Review candidate pesticides for availability and susceptibility of vector mosquito species</li> <li>• Identify any special environmental compliance concerns in affected area and communicate with Lead District staff.</li> </ul>
<p>Public Information Officer</p> <ul style="list-style-type: none"> <li>• Review epidemic response plan</li> <li>• Enhance public education (include messages on signs and symptoms of encephalitis; seek medical care if needed; inform public about pesticide applications if appropriate)</li> <li>• Enhance information to public health providers</li> <li>• Ensure notification of key agencies of presence of viral activity, including the office of emergency services</li> </ul>
<p>Operations Manager</p> <ul style="list-style-type: none"> <li>• Review epidemic response plan</li> <li>• Increase surveillance and control of mosquito larvae</li> <li>• Coordinate localized chemical control of adult mosquitoes</li> <li>• Contact commercial applicators in anticipation of large scale adulticide applications</li> </ul>
<p>Vector Ecologist</p> <ul style="list-style-type: none"> <li>• Review epidemic response plan</li> <li>• Increase adult mosquito surveillance</li> <li>• Increase number of mosquito pools tested for virus</li> <li>• Review candidate pesticides for availability and susceptibility of vector mosquito species</li> </ul>

**Epidemic Conditions**  
**Risk Rating 4.1-5.0**

<p><b>Conditions:</b></p> <ul style="list-style-type: none"> <li>• Rainfall, temperature, wetland surface area well above average</li> <li>• Adult vector population extremely high (&gt;300% above normal)</li> <li>• Virus isolates from multiple pools of mosquitoes (MIR /1000 &gt; 5.0)</li> <li>• Increased seroprevalance rates in wild bird populations or die-off of susceptible species (more than 5)</li> <li>• One or more human cases in District</li> <li>• In the case of WEEV, virus detection in urban or suburban areas</li> </ul>
<p><b>Response Activities by Role:</b></p> <p>General Manager and Administrative Finance Manager:</p> <ul style="list-style-type: none"> <li>• Ensure adequate emergency funding</li> <li>• Determine whether declaration of a local emergency should be considered by the County Board of Supervisors (or Local Health Officer)</li> <li>• Determine whether declaration of a “State of Emergency” should be considered by the Governor at the request of designated county or city officials</li> </ul>
<p>Administrative Finance Manager:</p> <ul style="list-style-type: none"> <li>• Ensure state funds and resources are available to assist epidemic control efforts.</li> </ul>
<p>Laboratory Manager:</p> <ul style="list-style-type: none"> <li>• Coordinate epidemic response.</li> <li>• Coordinate the response with the local Office of Emergency Services or if activated, the Emergency Operation Center (EOC)</li> <li>• Request public health exemptions from FIFRA (40 CFR 166) and emergency tolerance exemptions (40 CFR 176)</li> <li>• With Operations Manager and Vector Ecologist, accelerate adult mosquito surveillance and control</li> <li>• Ensure remaining environmental compliance requirements are met.</li> </ul>
<p>Operations Manager:</p> <ul style="list-style-type: none"> <li>• With Laboratory Manager and Vector Ecologist, initiate mosquito surveillance and control in geographic regions without an organized vector control program</li> <li>• Continue enhanced larval surveillance and control of immature mosquitoes</li> <li>• Accelerate adult mosquito control</li> </ul>
<p>Public Information Officer:</p> <ul style="list-style-type: none"> <li>• Conduct full scale media campaign</li> <li>• Alert physicians and veterinarians to expect cases</li> </ul>

- Continue mosquito education and control programs until mosquito abundance is substantially reduced and no additional human cases are detected

Vector Ecologist:

- With Laboratory Manager and Operations Manager, initiate mosquito surveillance and control in geographic regions without an organized vector control program
- Broaden geographic coverage of adult mosquito surveillance and arbovirus testing.



## **VIII. PROGRAM SUPPORT**

### **A. Key Agency Responsibilities**

#### **1. Local Mosquito and Vector Control Agencies**

- Gather, collate, and interpret regional weather data
- Monitor abundance of immature and adult mosquitoes
- Collect and submit mosquito pools for virus isolation
- Pick up suitable dead birds and test for WNV
- Update the CalSurv Gateway weekly to record all mosquito samples and birds that are tested
- Conduct routine control of immature mosquitoes
- Conduct control of adult mosquitoes when needed
- Comply with NPDES permit if applying pesticides to or near water of the United States
- Educate public on mosquito avoidance and reduction of mosquito sources
- Coordinate with local Office of Emergency Services personnel
- Communicate regularly with neighboring agencies

#### **2. Mosquito and Vector Control Association of California**

- Coordinate purchase of sentinel chickens
- Receive, track, and disburse payment for surveillance expenses
- Coordinate surveillance and response activities among member agencies
- Serves as spokesperson for member agencies
- Establish liaisons with press and government officials

#### **3. California Department of Public Health**

- Provide and maintain Vector Control Technician Certification program
- Collate adult mosquito abundance data submitted by local agencies; provide summary of data to local agencies
- Maintain a WNV information hotline, 1-877-WNV-BIRD, and a website (<http://westnile.ca.gov>).
- Test sentinel chicken sera for viral antibodies
- Test human specimens for virus
- Coordinate surveillance for human infections
- Coordinate and oversee testing and acquisition of human specimens for virus and antiviral antibodies.
- Distribute a weekly bulletin summarizing surveillance test results
- Report weekly surveillance results to the CDC ArboNET surveillance system.
- Immediately notify local vector control agency and public health officials when evidence of viral activity is found
- Conduct epidemiological investigations of cases of human disease
- Coordinate and participate in a regional emergency response in conjunction with California Emergency Management Agency

- Provide oversight to local jurisdictions without defined vector-borne disease control program
- Maintain inventory of antigens, antisera, and RNA assays to detect exotic viruses
- Provide confirmation of tests done by local agencies

#### **4. University of California at Davis, Davis Arbovirus Research and Training (DART)**

- Conduct research on arbovirus surveillance, transmission of mosquito-borne pathogens, and mosquito ecology and control
- Provide support for testing mosquito and dead bird samples for endemic and exotic arboviruses
- Provide a panel of tests for a wide range of viruses for identification of viruses from human, equine, bird, or arthropod vectors
- Maintain an interactive website (<https://ca.vectorsurv.org/>) for dissemination of mosquito-borne virus information and data
- Maintain inventory of antigens and antisera to detect exotic viruses
- Provide confirmation of tests done by local or state agencies

#### **5. California Department of Food and Agriculture**

- Notify veterinarians and veterinary diagnostic laboratories about WEEV and WNV testing facilities available at California Animal Health and Food Safety Laboratory
- Provide outreach to general public and livestock and poultry producers on the monitoring and reporting of equine and rhabdovirus encephalitides
- Facilitate equine sample submission from the field
- Conduct investigations of confirmed WNV and WEEV equine cases

#### **6. Local Health Departments and Public Health Laboratories**

- Test human specimens for arboviruses
- Refer human specimens to CDPH for further testing
- Notify local medical community, including hospitals and laboratories, if evidence of viral activity present
- Participate in emergency response
- Conduct epidemiological investigations of cases of human disease
- Report human arbovirus cases to CDPH
- Assist in public outreach and education

#### **7. California Emergency Management Agency**

- Coordinate the local, regional, or statewide emergency response under epidemic conditions in conjunction with CDPH via the Standardized Emergency Management System (SEMS)
- Serve as liaison with the Federal Emergency Management Agency (FEMA) in the event that a federal disaster has been declared

**8. State Water Resources Control Board**

- Review NPDES permit applications and respond in a timely manner.

**9. Centers for Disease Control and Prevention**

- Provide consultation to state and local agencies in California if epidemic conditions exist
- Provide national surveillance data to state health departments
- Provide diagnostic consultation

## B. Equipment

Monitoring of emergency levels of larvicide and adulticide control products will be done on a monthly basis and displayed in the monthly district inventory sheets located on the district M drive at M:\Mosquito\Inventory. If larvicide or adulticide levels fall below or are in danger of falling below the emergency treatment level capability, steps will be taken to replenish inventory levels to meet the emergency requirements.

### APPLICATION EQUIPMENT

<i>Equipment</i>	<i>Number in use</i>
1. Hand Cans (1 gal)	42
2. Maruyama Backpack Sprayers (Granular)	22
3. Maruyama Backpack Sprayer (Liquid)	6
4. Stihl Backpack Sprayers (Liquid)	6
5. Hand Backpack Sprayers	36
6. Argo - all terrain vehicle	1
7. Powered Liquid Skid Mounted Sprayer	3
8. ATV - quadbike	3
9. ATV - ranger	3
10. London Fog ULV Model 18-20	2
11. Guardian Model 190ES ULV Sprayer	1
12. Longray Portable Electric Fog Generator	4
13. Colt Hand Portable Fog Generator	2
14. A1 Super Duty Mister	1
15. Twister (Liquid)	2
16. Birchmeirer 4 Gal Liquid Backpack Sprayer	8
17. SP1 5 Gal Gas-powered Liquid Backpack Sprayer	1

- |   |   |
|---|---|
| 18. SP2 5 Gal Gas-powered Liquid Backpack Sprayer | 1 |
| 19. Micronair Liquid Barrier Sprayer              | 1 |
| 20. 16 Gal Power Sprayer                          | 1 |

**Aerial applicators available for contact**

Salton Sea Air Service, Inc.  
 101-111 Desert Air Drive  
 North Shore, CA 92254

OceanAir Helicopters  
 16603 Vesper Road  
 Valley Center, CA 92082

Clarke Environmental Mosquito  
 Management, Inc.  
 110 East Irving Park Road, 4<sup>th</sup> Floor  
 Roselle, IL 60172-9963  
 Telephone: (800) 323-5727

Vector Disease Control International  
 (VDCI)  
 1320 Brookwood Drive, Suite H  
 Little Rock, AR 72202  
 Telephone: (800) 413-4445

## C. Control Products

### LARVAL CONTROL

Products – The District will maintain an emergency level of larval control product inventory to control mosquito breeding at the following listed levels for 14 consecutive days. This level would be sufficient for District personnel to evaluate the scope and magnitude of the emergency, formulate a specific response plan, and procure additional control products if needed.

The following products are stored at the District and emergency response amounts will be available in combination to treat the listed acreage during the specified season. A combination of products within the same classification can fulfil the emergency requirements. The Maximum Product Required listed in the table is the amount required to fulfil the required treatment capability, provided that no other product within that category is available. The combined acreage capability for each classification of product is displayed in the monthly inventory spreadsheet located at M:/Mosquito/Inventory.

#### LARVAL CONTROL PRODUCT INVENTORY EMERGENCY RESERVE

Product	Classification	Treatment Rate	Maximum Product Required	Required Treatment Capability and Seasonal Availability
PUPACIDES				
Agnique MMF	Pupacide (liquid)	1 gal./acre	80 gals.	40 acres for 14 days – year round Retreat after 7 days 80 acres treated
Masterline Kontrol Mosquito Larvicide	Pupacide (liquid)	2 gal./acre	160 gals.	
INSECT GROWTH REGULATORS - methoprene				
MetaLarv S-PT	IGR (granule)	10 lbs./acre	2500 lbs. – April-Oct. 1500 lbs. – Nov.-March	250 acres April through October; 150 acres November through March.
Altosid Liquid	IGR (liquid)	4 oz./acre	15.6 gal. – April-Oct. 9.4 gal. – Nov.-March	Altosid Liquid – re-treat after 7 days 500 acres April – October treated. 200 acres November – March treated.
Altosid Pellets	IGR (granule)	7.5 lbs./acre	2500 lbs. – April-Oct.	Altosid Pellets – re-treat after 42 days

			1500 lbs. - Nov-March	MetaLarv S-PT - re-treat after 42 days 250 acres April - October treated 150 acres November - March treated
BACTERIAL PRODUCTS - Bti, <i>Lysinibacillus sphaericus</i>				
Aquabac 200G	Biological (granule)	10 lbs./acre	5000 lbs. - April - October	250 acres for 14 days - April through October Retreat after 7 days 500 acres treated
VectoBac 12AS	Biological (liquid)	16 oz./acre	62.5 gals. - April - October	
VectoBac G	Biological (granule)	10 lbs./acre	5000 lbs. - April - October	
VectoBac WDG	Biological (granule)	7 oz./acre	219 lbs. - April - October	
VectoLex WDG	Biological (granule)	1 lb./acre	250 lbs. - April - October	
VectoPrime FG	Biological (granule)	10 lbs./acre	5000 lbs. - April - October	
VectoMax FG	Biological (granule)	10 lbs./acre	5000 lbs. - April - October	
SPINOSAD PRODUCTS				
Natular G	Spinosad (granule)	9 lbs./acre	4500 lbs. April-Oct. 1800 lbs. Nov.-March	250 acres for 14 days - April through October. 100 acres for 14 days - November through March.  Natular 2EC and Natular G - Retreat after 7 days. 500 acres April - October treated. 200 acres November - March treated.  Natular G30 - Retreat after 30 days. 250 acres April - October treated. 100 acres November - March treated.
Natular 2EC	Spinosad (liquid)	6.4 oz./acre	25 gals. April-Oct. 10 gals. Nov.-March	
Natular G30	Spinosad (granule)	10 lbs./acre	2500 lbs. April-Oct. 1000 lbs. Nov.-March	

**ADULT CONTROL**

Products – District emergency adult mosquito control product inventory for rural areas of the Coachella Valley is estimated to be 250 acres, (35,000 linear feet), for 10 days ground fogging, plus 640 acres for 10 days for aerial ULV treatments. Urban control is estimated to be 250 acres, (35,000 linear feet), for 10 days ground ULV. In addition, barrier treatment products capable of treating 4 acres, (29,000 linear feet by 6 foot), will also be available for emergency response. This level would be sufficient for district personnel to evaluate the scope and magnitude of the emergency, formulate a specific response plan, and procure additional control products if needed. A combination of products within the same classification can fulfill the emergency requirements. The Maximum Product Required listed in the table is the amount required to fulfill the required treatment capability, provided that no other product within that category is available. The combined acreage capability for each classification of product is displayed in the monthly inventory spreadsheet located at M:/Mosquito/Inventory.

District personnel may substitute products based on product availability, mosquito population resistance studies, and environmental impacts.

**ADULT CONTROL PRODUCT INVENTORY EMERGENCY RESERVE**

Adulticide Product	Classification	Treatment Rate	Maximum Product Required	Treatment Capability
Aqua-Reslin	Adulticide	0.356 oz. Aqua-Reslin/ Acre	23.7 gals.	6400 acres – rural fogging
Scourge 18 + 54	Adulticide	.593 oz. Scourge 18+54/ Acre	37.4 gals.	
Duet	Adulticide	1.28 oz. Duet/Acre	85 gals.	2500 acres – urban fogging
EverGreen 5-25	Adulticide	0.876 oz. EverGreen 5-25/Acre	60.9 gals.	
DeltaGard	Adulticide	1.007 oz. DeltaGard/Acre	39.3 gals.	2500 acres – urban fogging (no rural)
Aqua-Reslin	Barrier Spray	7.7 fl. oz./Acre barrier treatment	0.25 gals.	4 acres Barrier treatments
Demand CS	Barrier Spray	10 fl. oz./ Acre barrier treatment	0.32 gals.	

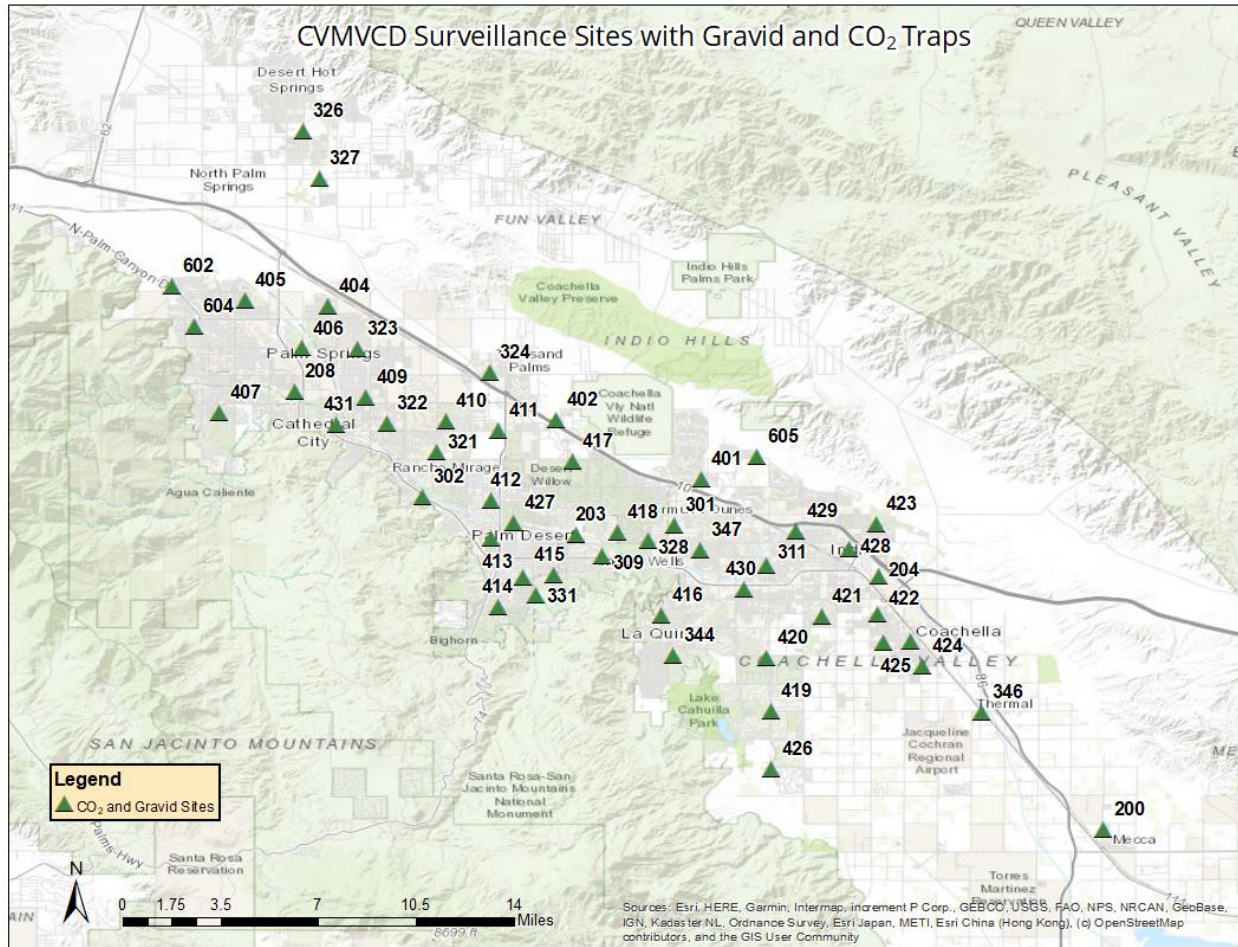


## **EMERGENCY CONTROL PRODUCT MONITORING**

Monitoring of emergency levels of larvicide and adulticide control products will be done on a monthly basis and displayed in the monthly district inventory sheets located on the district M drive at M:\Mosquito\Inventory. If larvicide or adulticide levels fall below or are in danger of falling below the emergency treatment level capability, steps will be taken to replenish inventory levels to meet the emergency requirements.

# IX. APPENDICES

## Appendix A.1 - Map of Surveillance Locations with Gravid and CO<sub>2</sub> Traps in the Coachella Valley

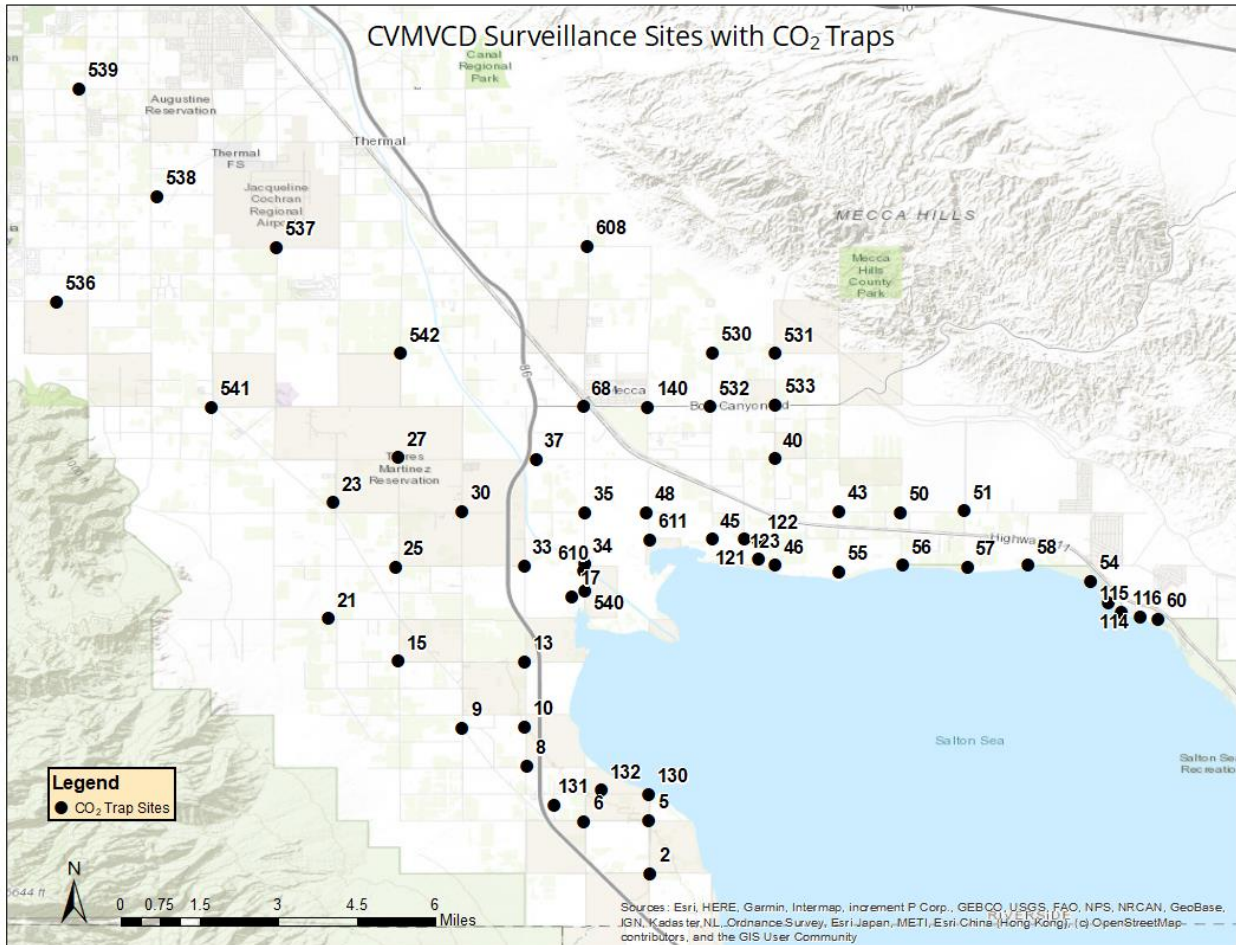


**Appendix A.2 – List of Sites with Gravid and CO<sub>2</sub> Trap Locations in the Coachella Valley**

<b>No.</b>	<b>Site ID</b>	<b>City</b>	<b>Location Description</b>
1	200	Mecca	Lincoln and Avenue 65
2	203	Palm Desert	Cook St and Sheryl Ave
3	204	Indio	Van Buren St and Enterprise Way
4	208	Palm Springs	Mesquite Ave and S Gene Autry Trl
5	301	Bermuda Dunes	End of Hidden River Rd
6	302	Rancho Mirage	Thunderbird Rd and Hwy 111
7	307	Coachella	Coachella Fire Station
8	309	Indian Wells	El Dorado Dr and Hwy 111
9	311	Indio	Madison St and Avenue 46
10	320	Palm Desert	Shadow Mountain CC Golf Club Ln
11	321	Rancho Mirage	Tamarisk CC
12	322	Cathedral City	Plumley Rd and Gerald Ford Dr
13	323	Cathedral City	Ximino Rd and 30 <sup>th</sup> Avenue
14	324	Thousand Palms	Roberts Rd and Ramon Rd
15	326	Desert Hot Springs	Verbena Dr and Park Ln
16	327	Desert Hot Springs	Bubbling Wells Rd and 18 <sup>th</sup> Avenue
17	328	Palm Desert	Texas Ave by Fred Waring
18	331	Palm Desert	Living Desert
19	344	La Quinta	La Quinta Maintenance Yard
20	346	Thermal	Grapefruit Blvd and Airport Blvd
21	347	La Quinta	Miles Ave and Adams St
22	401	Palm Desert	Sun City
23	402	Thousand Palms	Jack Ivey Dr and Stage Line Dr
24	404	Cathedral City	Landau Blvd and Ontina Rd
25	406	Palm Springs	Escena
26	407	Palm Springs	S Camino Real and E La Verne Way
27	409	Cathedral City	Date Palm Dr and Ortega Rd
28	410	Rancho Mirage	Mission Hills CC
29	411	Rancho Mirage	Orleans Rd and Victor Hugo Rd
30	412	Rancho Mirage	Verbenia Rd and Monterey Ave
31	413	Palm Desert	Monterey Ave and Parkview Dr
32	414	Palm Desert	Mesa View and Racquet Ln
33	415	Indian Wells	Vintage Dr W and Wren Dr
34	416	La Quinta	Avenida El Nido & Avenida Fernando
35	417	Palm Desert	Vista Royale Dr and Desert Falls Dr
36	418	Indian Wells	Via Orvieto and Via Uzzano
37	419	La Quinta	Madison St and Airport Blvd
38	420	La Quinta	Hideaway CC

<b>39</b>	<b>421</b>	<b>Indio</b>	Indian Palms CC
<b>40</b>	<b>422</b>	<b>Coachella</b>	Avenue 49 and Van Buren St
<b>41</b>	<b>423</b>	<b>Indio</b>	Golf Center Pkwy and Avenue 43
<b>42</b>	<b>424</b>	<b>Coachella</b>	Genoa St and Avenue 53
<b>43</b>	<b>425</b>	<b>Coachella</b>	Frederick St and Avenue 51
<b>44</b>	<b>426</b>	<b>La Quinta</b>	Madison and Avenue 60
<b>45</b>	<b>427</b>	<b>Palm Desert</b>	Monterey CC
<b>46</b>	<b>428</b>	<b>Indio</b>	Dillon Ave and Palo Verde St
<b>47</b>	<b>429</b>	<b>Indio</b>	Sunburst St and Oleander Ave
<b>48</b>	<b>430</b>	<b>Indio</b>	Hwy 111 and Jefferson St
<b>49</b>	<b>431</b>	<b>Palm Springs</b>	Cathedral Canyon Dr and Paseo Azulejo
<b>50</b>	<b>432</b>	<b>Palm Springs</b>	Whitewater Club and N Farrell Dr
<b>51</b>	<b>602</b>	<b>Palm Springs</b>	Mountain Gates
<b>52</b>	<b>604</b>	<b>Palm Springs</b>	Vereda Norte and Camino Centro
<b>53</b>	<b>605</b>	<b>Indio</b>	Madison St and Avenue 38

# Appendix B.1 – Map of Surveillance Locations with only CO<sub>2</sub> Traps in the Coachella Valley



**Appendix B.2 – List of Surveillance Locations with only CO<sub>2</sub> Traps in the Coachella Valley**

<b>No.</b>	<b>Site ID</b>	<b>City</b>	<b>Site Description</b>
1	2	Oasis	Johnson and Avenue 84
2	5	Oasis	Johnson and Avenue 82
3	6	Oasis	Lincoln and Avenue 82
4	8	Oasis	Buchanan and Avenue 80
5	9	Thermal	Pierce and King St
6	10	Oasis	Buchanan and Avenue 79
7	13	Thermal	Buchanan and Avenue 76
8	15	Thermal	Filmore and Avenue 76
9	17	Mecca	Lincoln and Avenue 73
10	21	Thermal	Polk and Avenue 74
11	23	Thermal	Polk and Avenue 70
12	25	Thermal	Filmore and Avenue 72
13	27	Thermal	Filmore and Avenue 68
14	30	Mecca	Pierce and Avenue 70
15	33	Mecca	Buchanan and Avenue 72
16	34	Mecca	Lincoln and Avenue 72
17	35	Mecca	Lincoln and Avenue 70
18	37	Mecca	Buchanan and Avenue 68
19	40	Mecca	Hayes and Avenue 68
20	43	Mecca	Garfield and Avenue 70
21	45	Mecca	Grant and Avenue 71
22	46	Mecca	Hayes and Avenue 72
23	48	Mecca	Johnson and Avenue 70
24	50	Mecca	Arthur and Avenue 70
25	51	Mecca	Cleveland and Avenue 70
26	54	Northshore	Vanderveer and Avenue 73
27	55	Mecca	Garfield and Avenue 72
28	56	Mecca	Arthur and Avenue 72
29	57	Mecca	Cleveland and Avenue 72
30	58	Northshore	Avenue 72 East of Cleveland
31	60	Northshore	Salton Sea State Park
32	68	Mecca	Lincoln and Avenue 66
33	114	Northshore	Desert Mobile Home Park
34	115	Northshore	Mecca Ave and Tripoli Dr
35	116	Northshore	South of Tripoli Rd
36	121	Mecca	Colfax and Ave 71
37	122	Mecca	East of Colfax and Avenue 71
38	123	Mecca	Avenue 72 between Hayes and Colfax
39	130	Oasis	Johnson and Avenue 81

<b>40</b>	<b>131</b>	Oasis	Avenue 81 and Buchanan
<b>41</b>	<b>132</b>	Oasis	Johnson and Avenue 81
<b>42</b>	<b>140</b>	Mecca	Johnson and Avenue 66
<b>43</b>	<b>530</b>	Mecca	Grant and Avenue 64
<b>44</b>	<b>531</b>	Mecca	Hayes and Avenue 64
<b>45</b>	<b>532</b>	Mecca	Grant and Avenue 66
<b>46</b>	<b>533</b>	Mecca	Hayes and Avenue 66
<b>47</b>	<b>536</b>	Thermal	Orchid and Avenue 62
<b>48</b>	<b>537</b>	Thermal	Tyler and Avenue 60
<b>49</b>	<b>538</b>	Thermal	Van Buren and Avenue 58
<b>50</b>	<b>539</b>	Coachella	Jackson and Avenue 54
<b>51</b>	<b>540</b>	Mecca	Lincoln and Avenue 73
<b>52</b>	<b>541</b>	Mecca	Harrison and Avenue 66
<b>53</b>	<b>542</b>	Mecca	Fillmore and Avenue 64
<b>54</b>	<b>608</b>	Mecca	Lincoln and Avenue 60
<b>55</b>	<b>610</b>	Mecca	Torres Martinez Wetland
<b>56</b>	<b>611</b>	Mecca	End of Johnson and Avenue 70

**Appendix C – Table 4. Annual and monthly total and average rainfall (in.) for the Coachella Valley**

<b>MONTH</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>5-year Average</b>
JANUARY	0.11	0.76	0.95	0.41	0.57	0.56
FEBRUARY	0.04	0	0.31	0	1.29	0.328
MARCH	0.21	0	0	0	0.17	0.076
APRIL	0	0.34	0	0	0	0.68
MAY	0.07	0	0	0	0.01	0.016
JUNE	0	0	0	0	0	0
JULY	0.53	0	0	0	0.44	0.194
AUGUST	0	0	0.07	0.12	0	0.038
SEPTEMBER	0.02	0.21	0	0.02	0.51	0.152
OCTOBER	0.14	0	0	0.82	0	0.192
NOVEMBER	0	0.01	0	0	0.58	0.118
DECEMBER	0	0.57	0	0.09	1.42	0.416
<b>YEAR TOTAL</b>	<b>1.12</b>	<b>1.89</b>	<b>1.33</b>	<b>1.46</b>	<b>4.99</b>	<b>2.158</b>

\*This data used for surveillance factor # 1 in the Mosquito Borne Virus Risk Assessment Table calculations for WNV, WEEV, and SLEV on pages 9 – 11 of the Coachella Valley Mosquito Borne Virus Surveillance and Emergency Response Plan. Data is from weather station KTRM in Thermal, CA.



**Appendix D – Table 5. Average Minimum and Maximum temperatures (°F) in the Coachella Valley**

Month	2015			2016			2017			2018			2019			5-Year Average		
	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min
Jan 1-15	71	54	36	64	51	38	66	55	43	78	61	45	66	52	40	68.9	54.6	40.4
Jan 16-31	76	60	43	73	58	41	68	54	41	78	61	42	74	60	47	73.9	58.6	42.8
Feb 1-14	85	65	45	80	60	40	78	65	51	84	65	46	66	54	42	78.7	61.9	44.7
Feb 15-28	80	64	47	87	67	48	71	60	48	71	55	39	68	56	43	75.4	60.4	45.0
Mar 1-15	83	66	48	84	69	53	86	67	48	81	65	49	76	66	54	82.0	66.5	50.5
Mar 16-31	91	73	54	86	69	51	89	73	57	86	70	54	85	71	56	87.4	71.1	54.4
Apr 1-15	87	71	55	87	73	58	89	72	56	95	78	60	89	75	61	89.4	73.8	57.9
Apr 16-30	90	73	56	90	75	59	94	77	61	94	78	61	95	82	66	92.5	76.9	60.7
May 1-15	87	74	61	92	78	63	92	77	62	97	81	65	93	80	68	92.2	78.0	63.8
May 16-31	92	77	62	93	80	66	99	83	66	98	83	69	88	76	64	93.9	79.9	65.5
Jun 1-15	101	86	70	104	88	71	101	84	67	107	90	72	105	89	72	103.5	87.5	70.4
Jun 16-30	109	89	70	110	93	75	113	94	74	107	89	72	104	90	73	108.7	91.0	72.8
Jul 1-15	105	91	77	108	91	73	111	94	78	111	96	81	110	95	79	108.9	93.4	77.5
Jul 16-31	104	91	77	110	95	79	107	93	79	112	99	84	109	97	81	108.5	95.0	80.1
Aug 1-15	110	94	78	108	94	79	107	94	79	111	98	83	111	98	83	109.4	95.6	80.3
Aug 16-31	108	93	78	107	91	74	110	93	76	109	94	78	110	97	81	108.8	93.5	77.3
Sep 1-15	102	88	74	102	87	71	103	90	77	108	89	68	106	92	77	104.2	89.2	73.5
Sep 16-30	102	86	70	97	81	64	95	80	65	106	88	70	95	81	67	99.1	83.3	67.2
Oct 1-15	96	82	68	95	78	60	94	75	56	90	79	66	90	73	55	93.1	77.4	60.9
Oct 16-31	91	77	63	91	76	60	95	77	59	92	75	57	88	70	51	91.4	74.9	58.1
Nov 1-15	78	61	43	89	71	53	82	67	52	85	67	47	87	64	45	84.3	66.0	48.0
Nov 16-30	74	58	41	74	59	43	83	66	49	79	62	44	73	58	45	76.6	60.7	44.5
Dec 1-15	73	55	36	73	58	42	78	61	43	71	57	43	69	57	46	72.8	57.6	42.0
Dec 16-31	66	51	35	66	54	42	71	54	37	72	57	41	64	50	38	67.7	53.2	38.7

\* This data used for surveillance factor # 1 in the Mosquito Borne Virus Risk Assessment Table calculations for WNV, WEEV, and SLEV on pages 9 – 11 of the Coachella Valley Mosquito Borne Virus Surveillance and Emergency Response Plan. Data is from weather station KTRM in Thermal, CA.

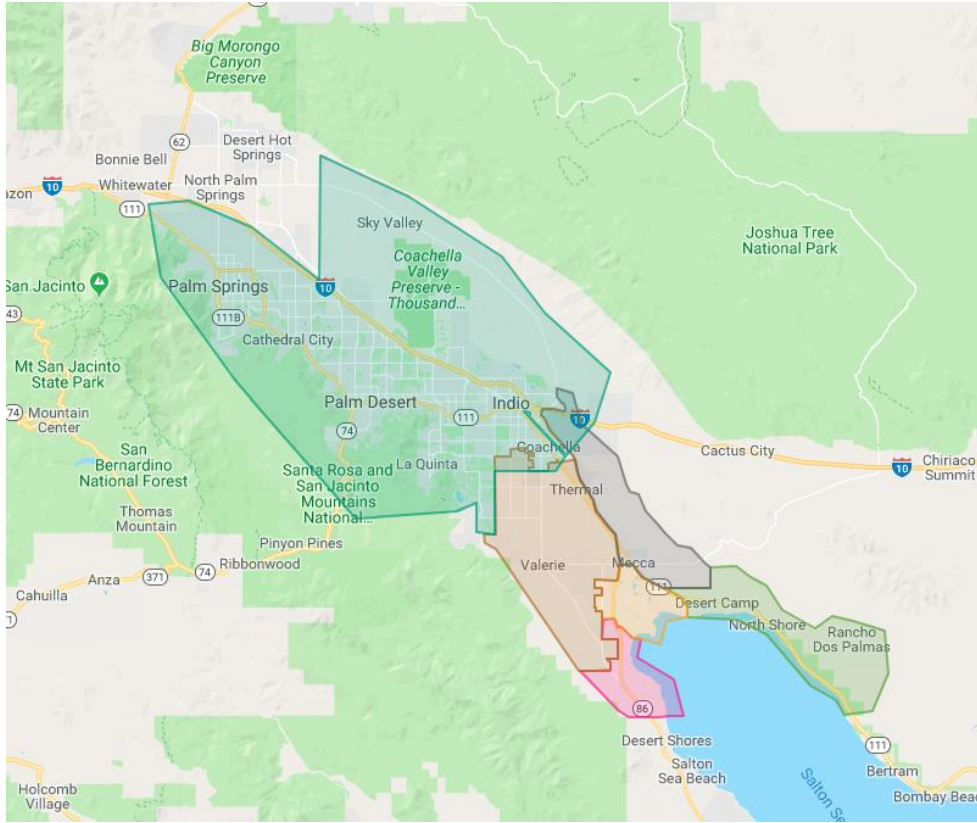
## Appendix E – Risk Assessment Maps

The seasonal transmission risk of the arboviruses WNV, WEEV and SLEV in the Coachella Valley, among other factors, is related to temperature, rainfall, mosquito infection rates, and vector abundance and population size of vertebrate hosts. Some of these factors are used on a bi-weekly basis to determine level of risk for WNV, SLEV, and WEEV transmission in various areas or zones of the Valley. Some of the zones used to calculate arbovirus transmission risk are shown in the figures below. For the surveillance zones around the Salton Sea (Figure 3), tables 6, 7 and 8 present the average number of *Cx. tarsalis* and *Cx. quinquefasciatus* female mosquitoes per trap per month.

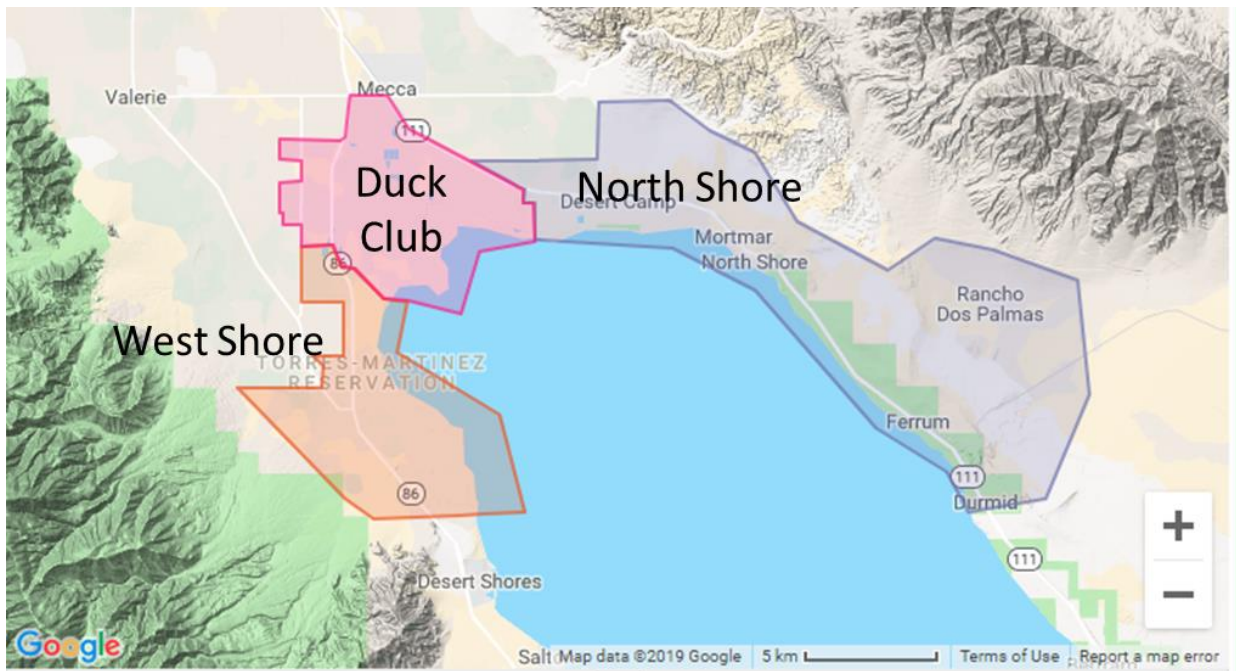
**Figure 1 – Map of the Coachella Valley risk assessment zone.**



**Figure 2 – Map of urban and agricultural risk assessment zones.**



**Figure 3 – Map of Salton Sea Shoreline Risk Assessment Zones**



**Table 6. North Shore Average Number of Vector Mosquitoes**

<b>MONTH</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>5-year Average</b>
<b>JAN</b>	74.5	62.83	224.33	204.5	14.33	<i>116.10</i>
<b>FEB</b>	126.8	135.17	158.33	444	11.67	<i>175.19</i>
<b>MAR</b>	153.08	217.94	137.92	260.25	175	<i>188.84</i>
<b>APR</b>	100.13	134.96	326.67	515.25	536.67	<i>322.74</i>
<b>MAY</b>	72.71	136.42	93.22	164.17	356.36	<i>164.58</i>
<b>JUN</b>	25.28	168.47	17.96	64.21	138.15	<i>82.81</i>
<b>JUL</b>	2.54	5.88	12.29	7.91	22.96	<i>10.32</i>
<b>AUG</b>	2.71	0.92	6.04	16.88	1.59	<i>5.63</i>
<b>SEP</b>	5.96	15.32	46.21	41.48	28.13	<i>27.42</i>
<b>OCT</b>	37.92	55.83	179.56	39.58	65.56	<i>75.69</i>
<b>NOV</b>	12.33	53.33	29.27	12.42	32.08	<i>27.89</i>
<b>DEC</b>	5.22	8	196	5	2.33	<i>43.31</i>

**Table 7. Duck Club Zone Average Number of Vector Mosquitoes**

<b>MONTH</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>5-year Average</b>
<b>JAN</b>	360.09	65.23	293.6	173.57	104.67	<i>199.43</i>
<b>FEB</b>	316.68	289.69	278.4	305.1	15.11	<i>241</i>
<b>MAR</b>	317.4	1317.5	1370.3	365.68	630.3	<i>800.24</i>
<b>APR</b>	354.07	791.67	952.5	1527.13	2426.07	<i>1210.29</i>
<b>MAY</b>	87.2	218.1	388.24	406.03	1165.54	<i>453.02</i>
<b>JUN</b>	68.64	251.82	111.35	121.94	1125.14	<i>335.78</i>
<b>JUL</b>	32.9	45.46	24.47	38.9	50.05	<i>38.36</i>
<b>AUG</b>	46.9	71.84	26.65	32.46	146.36	<i>64.84</i>
<b>SEP</b>	123.1	227.85	322.97	350.27	522.44	<i>309.33</i>
<b>OCT</b>	767.73	754.07	1179.51	318.59	765.68	<i>757.12</i>
<b>NOV</b>	136.57	294.73	158.68	129.4	124.74	<i>168.82</i>
<b>DEC</b>	13.08	10.8	84.6	82.36	30.8	<i>44.33</i>

**Table 8. West Shore Average Number of Vector Mosquitoes**

<b>MONTH</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<i><b>5-year Average</b></i>
<b>JAN</b>	59	65	78.5	116.25	23.5	<i>68.45</i>
<b>FEB</b>	128.75	285.5	126.5	101	26.5	<i>133.65</i>
<b>MAR</b>	173.79	320	291.71	99.43	87.14	<i>194.41</i>
<b>APR</b>	62.14	194.5	62.64	77.21	173.64	<i>144.03</i>
<b>MAY</b>	40.21	150.36	27.43	68.05	158.29	<i>88.87</i>
<b>JUN</b>	51.89	213.45	32.07	82	318.79	<i>139.64</i>
<b>JUL</b>	17.57	22.29	19.5	21.79	89	<i>34.03</i>
<b>AUG</b>	21.07	9.53	5.57	18.71	69.48	<i>24.87</i>
<b>SEP</b>	22.64	18.79	17.33	54.14	45.93	<i>31.77</i>
<b>OCT</b>	122.93	56.93	33.86	31.57	174.57	<i>83.97</i>
<b>NOV</b>	67.93	26.71	41.11	3.14	50.79	<i>37.94</i>
<b>DEC</b>	8.11	3.5	21	14.5	15	<i>12.42</i>

**SECTION**

**10**



**NEW BUSINESS**



**Coachella Valley Mosquito and  
Vector Control District**

**May 12, 2020**

**Staff Report**

**Agenda Item:** New Business

Ad hoc Research Committee Appointment – **Franz De Klotz, President of the Board of Trustees**


**Background:**

The Board appoints an ad hoc Research Committee charged with reviewing and assessing the research proposals that are received by the District for projects each year. The Committee makes its recommendation for financial support based on the District's Research Policy, and together with Staff, recommends funding proposals that meet the District's research needs and interests. The Committee also recommends how much funding to allocate to each proposal, which can be the full amount requested, a reduced amount, or no funding. The results are presented to the Board at the November Board meeting, and the Board then decides which proposals will be funded.

The ad hoc Research Committee reviews the District's research interests before the July Request for Proposals. This can be done by email, or it can be 1 1-hour meeting in May or June. The time commitment in the fall depends on the number of proposals (typically there are 3 to 5 each year, each being about 15 pages). The meeting time is typically 1 two-hour meeting in October.

**Staff Recommendation:**

To appoint an ad hoc Research Committee comprised of three members and one alternate member.

	<p><b>Coachella Valley Mosquito and Vector Control District</b></p> <p><b>Staff Report</b></p>	<p><b>May 12, 2020</b></p>
<p><b>Agenda Item:</b> New Business</p> <p>VCJPA seeks one Alternate Trustee Representative to represent all regions on the VCJPA Board of Directors - <b>Jeremy Wittie, M.S., General Manager</b></p>		
<p><b>Background:</b></p> <p>The VCJPA is seeking nominees for one Alternate Trustee Representative representing all regions on the VCJPA Board of Directors.</p> <p>The time commitment required for this Alternate Trustee Representative is approximately two to three hours for each of the four meetings that take place every year. Although, travel restriction in place due to the COVID-19 pandemic may change this for the time being. The VCJPA encourages all Board members and alternates to attend and participate in the Board meetings; however, it's not mandatory that they attend all meetings. The Alternate Trustee Representative would vote in the absence of one of the two Trustee Representatives. The VCJPA will reimburse for travel related expenses for attending the Board meetings.</p> <p>A biography must accompany each nomination and they are to be submitted no <b>later than Wednesday, May 20, 2020</b>. The District may nominate more than one person.</p>		
<p><b>Staff Recommendation:</b></p> <p>That the Board takes whatever action they deem appropriate.</p>		